

EcoFit™

Extend the life of your equipment and reduce your environmental footprint.

Catalogue 2026

se.com/ecofit

Schneider Electric


Discover EcoFit™ Life Extension
Advanced for Power

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Legacy Range Brand

ONE trusted service partner to navigate your digitization and energy transition journey ensuring reliability, efficiency, sustainability and peace of mind

We are your partner of choice

Why Schneider Electric?

- Electrification is at the heart of our business
- Pioneers in AI for electrification
- Unique circularity services
- Most extensive network of experts globally

What we deliver:

BUSINESS CONTINUITY ---• **-75%**(1) Downtime Risk

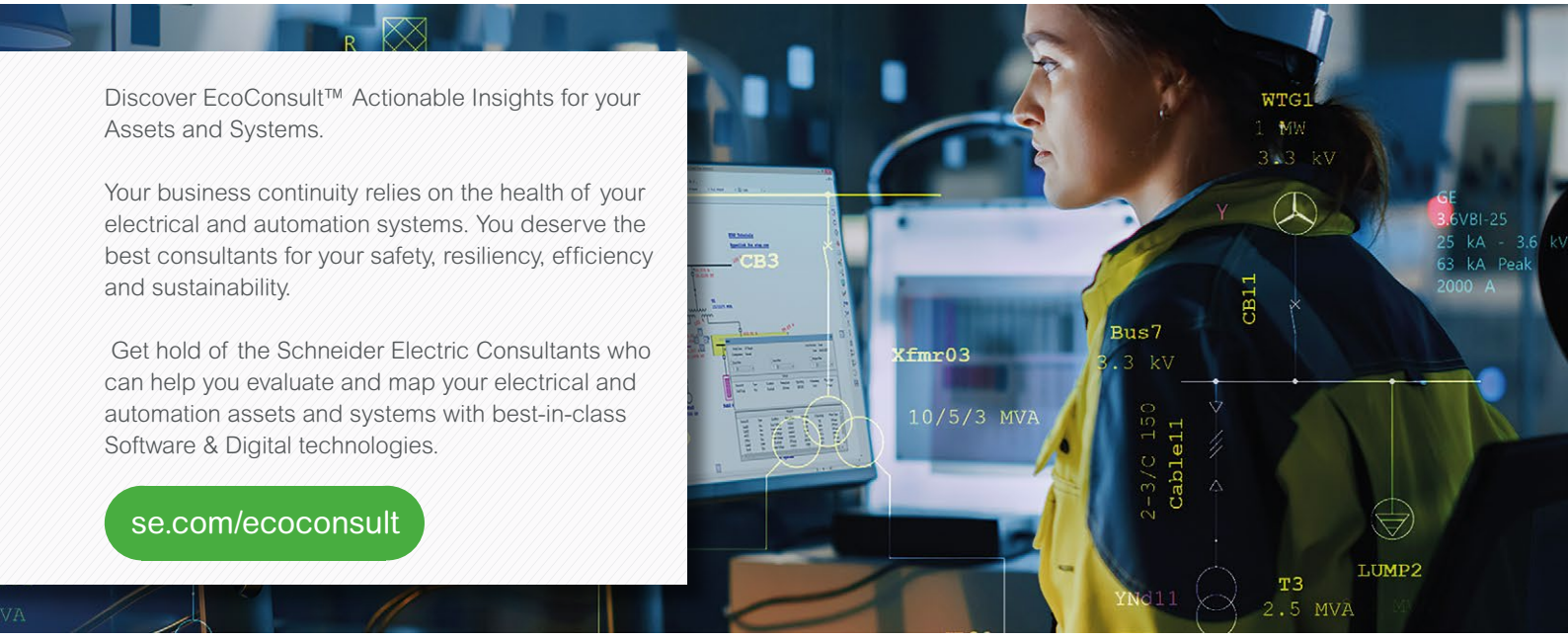
COST EFFICIENCY ---• **-40%**(1) Maintenance Costs

SAVE RESOURCES ---• up to **90%**(1) Waste Avoided with Retrofit

PEOPLE & ASSET SAFETY, CYBERSECURITY

(1) According to Schneider Electric data, benchmark and estimation, from our experience as manufacturer, quality data collected, and analysis made by our data scientists

Map your business for an **increased safety**



Discover EcoConsult™ Actionable Insights for your Assets and Systems.

Your business continuity relies on the health of your electrical and automation systems. You deserve the best consultants for your safety, resiliency, efficiency and sustainability.

Get hold of the Schneider Electric Consultants who can help you evaluate and map your electrical and automation assets and systems with best-in-class Software & Digital technologies.

se.com/ecoconsult

Transforming an asset-centric management strategy to a **comprehensive AI-driven systemic approach**

Our answer

From asset ---• To asset & system

HARDWARE DRIVEN STRATEGY WITH SERVICES TIED TO INDIVIDUAL ASSETS

- Calendar-based maintenance execution
- Asset Repair

NEXT-GEN SERVICES COVERING E2E SYSTEM AND PLANNED OUT FROM DESIGN PHASE

- Consulting services for design & build optimization
- AI-powered Condition-Based Maintenance
- 24/7 remote monitoring
- Maintenance at system level
- Intelligent Maintenance execution
- Digital-ready modernization

Proven results

BASED ON CUSTOMERS BENCHMARK

50%
Reduction in time to ready through standardized design & industrial technology integration

20%
Improvement of TCO compared to traditional calendar based reactive approach

40%
Improvement in operational efficiency with no cost increase

25%
Energy saving & PUE 1.1 achieved by customers using whole life value model

With one expert team supporting your entire asset & system lifecycle - **with circularity at the core**



SE ADVISORY SERVICES
EcoConsult

Consulting services to design your Asset Performance Management strategy and optimize your systems

EcoFit™

Digital-ready modernization, circularity, repairability, take back

EcoCare

AI-powered Condition-Based Maintenance with 24/7 remote monitoring

Schneider Electric expertise



Discover how our expertise in multiple domains and capabilities to leverage data bring new perspectives.

We're your Energy Tech company offering a truly **unified answer for your** Asset Performance Management

Our answer

ONE TRUSTED SERVICES PARTNER

Managing both your electrical + automation assets & systems across all your sites

⊕

Supporting your Asset Performance Strategy along your entire lifecycle

⊕

Bringing our experts & cutting-edge energy technology and AI innovations

⊕

With a unique circularity approach

#1
Largest installed base of electrical assets
Schneider Electric estimate

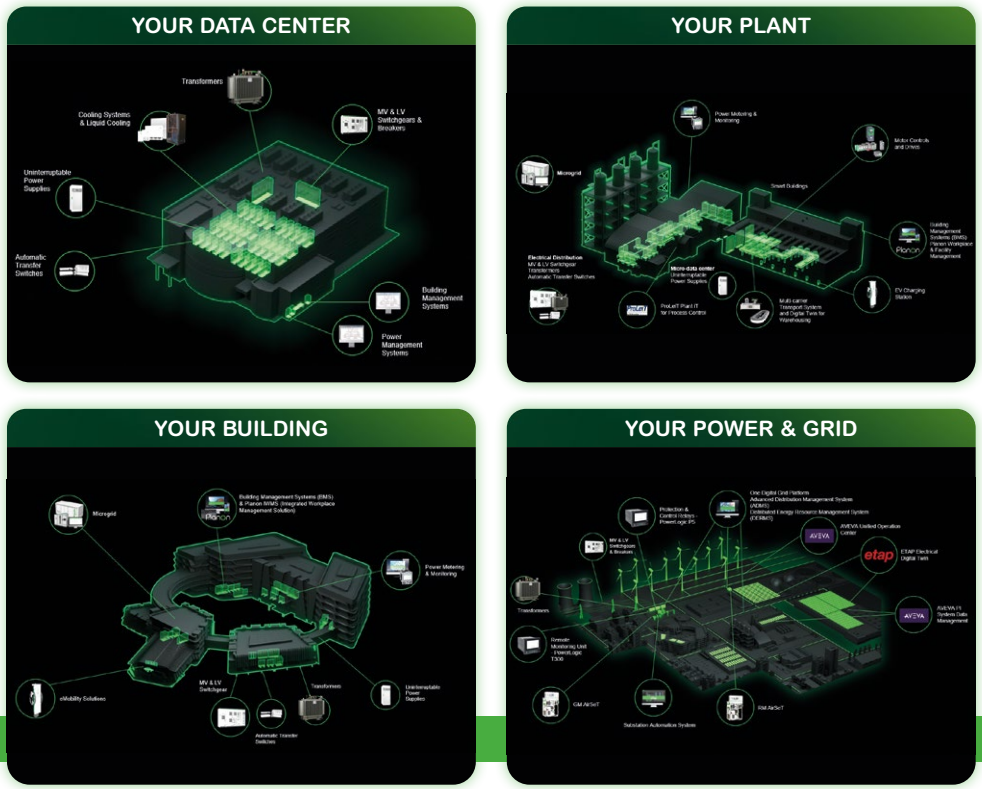
Pioneers in digital and AI with **300** in-house AI engineers who continuously improve our predictive models

+6,000
Asset Performance Management experts and a vast ecosystem of certified partners

#1
most sustainable company
2025 Corporate Knights | 2025 WEF | 2024 Circularity Lighthouse World Economic Forum

One trusted services partner managing **electrical + automation assets & systems across your multiple sites**

Our answer



Leveraging take back and new life for your equipment whenever possible



Discover the EcoFit center where Schneider Electric designs pre-engineered retrofit solutions, adapting the components to the existing installations for customers.

EcoFit™ with Circularity

Your benefits

up to **90%** less waste(1)

up to **29% CO_2** emissions saving

By choosing refurbished assets compared to new equipment(2)



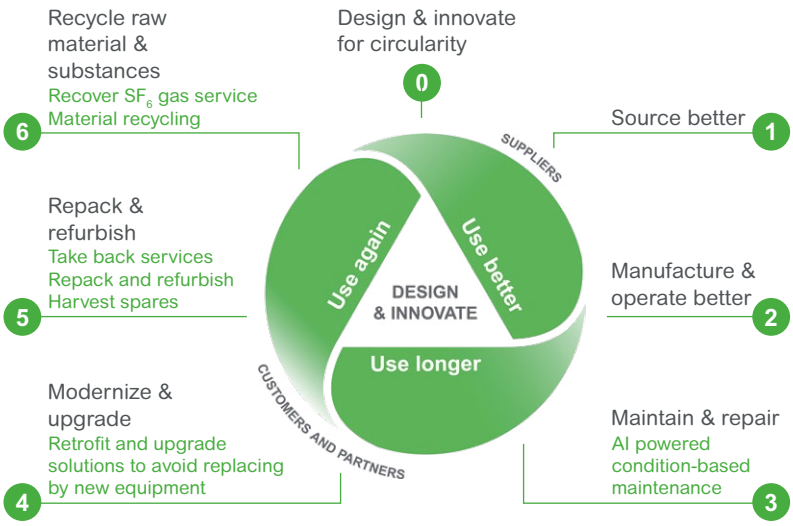
(1) By avoiding new manufacturing
(2) weforum.org/publications/circular-transformation-of-industries-the-art-of-scaling-circular-supply-chains

Our answer

Circularity is at the core of our

“Use better, use longer and use again”

lifecycle approach



Together with our ecosystem of partners, we deliver end-to-end solutions that minimize your carbon footprint and maximize asset life.

- We not only extend the healthy life of your assets but also offer take-back capabilities at end-of-use, enabling reuse through our manufacturer-level refurbishment.
- Our goal is to keep equipment operating for as long as possible by leveraging circular spare parts, while ensuring compliance and performance.
- When assets truly reach end-of-life, we manage material recovery responsibly, delivering environmental benefits and generating recycled materials.

Ready to accelerate your decarbonization journey?

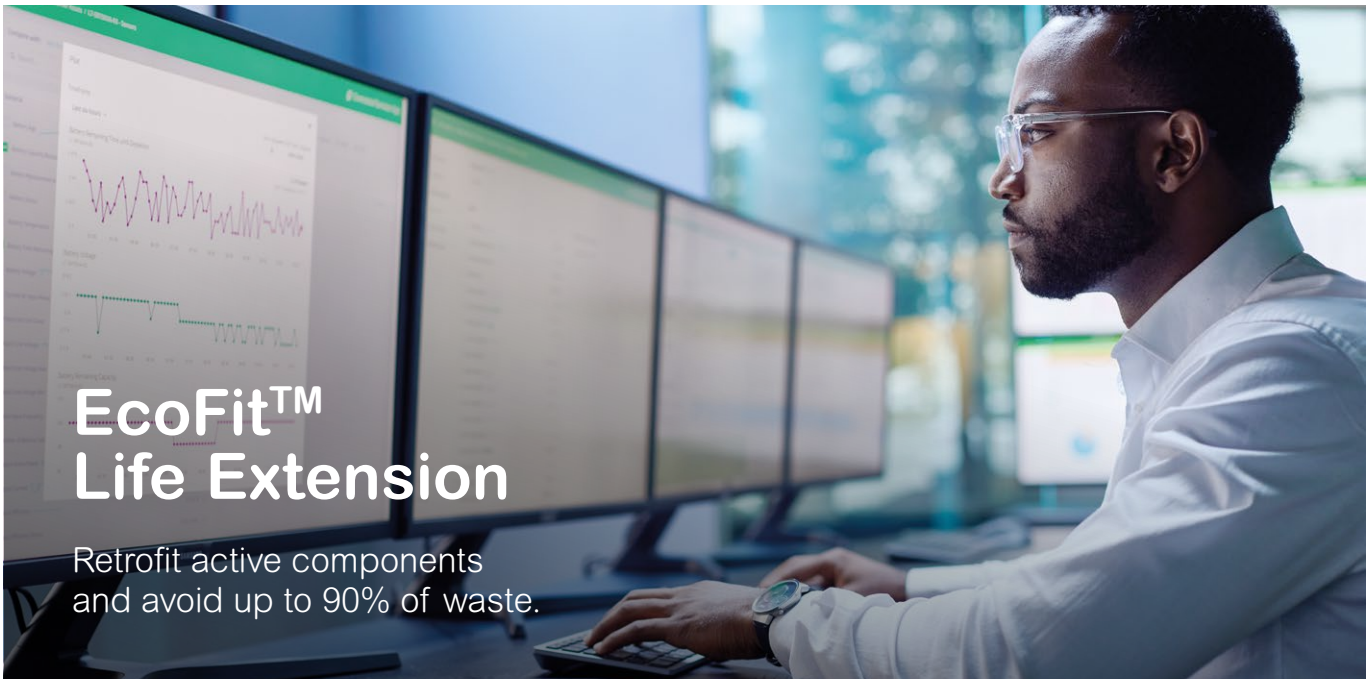


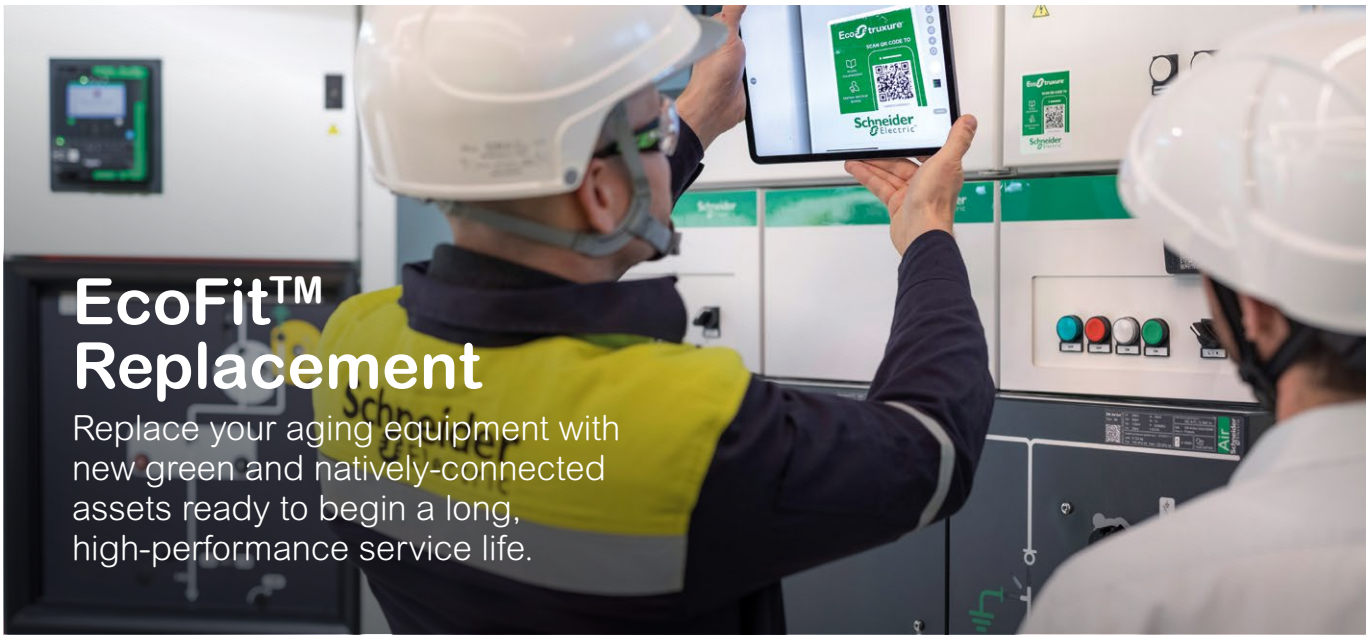
Discover how to upgrade your aging switchgear with EcoFit green and digital modernization services.

Protect your business and accelerate your decarbonization journey with EcoFit™

Supported by our qualified services experts, give new life to your aging equipment with low-carbon footprint solutions.

Schneider Electric helps you make the right choice to revitalize your aging systems to balance between controlling the costs to maintain your installations and keep them running at peak performance.



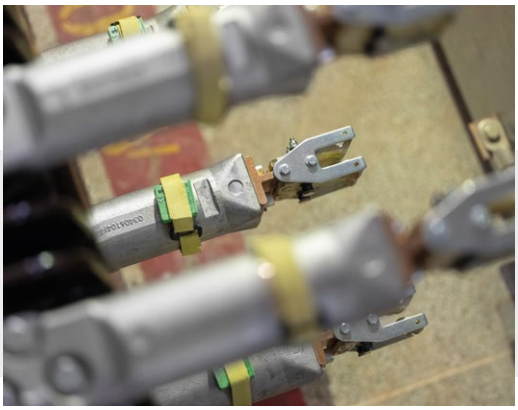


EcoFit™ Life Extension

Extend the life of your equipment by connecting it with sensors or by replacing only the core components.

EcoFit™ Life Extension helps revitalizing your aging systems to balance between controlling the costs to maintain your installations and keep them running at peak performance.

2 **sets of upgrade services** that smartly fit your needs, enhance your equipment with connectivity and help you make the most out of what you have.



Essential

Unleash the power of connectivity with smart sensors, sub-assemblies and software updates. Upgrade your non-communicating equipment into connected assets to monitor and capture information on the health of your installation. Repair and fix your equipment to extend its life.

Advanced



Preserve your legacy investment and extend the lifespan of your equipment to help you reduce your CO_2 footprint. Retrofit the core components of your equipment with the latest technology to help ensure your equipment keeps running like new while complying with new standards.

EcoFit™ Replacement

Maintain your business continuity with the latest efficient and sustainable innovations and replace your aging installation with new green and natively-connected assets ready to begin a long, high-performance service life.



Our EcoFit™ Replacement services for aging equipment help increase your peace of mind while maximizing the performance and availability of your systems as well as supporting your changing needs in an ever-evolving world.

Help to minimize downtime potential risks.

Optimized total cost of ownership with a more energy-efficient solution.

Help reduce maintenance and service costs, over equipment lifetime.

What to do with your obsolete equipment?

Consider our Take Back solution: we collect your equipment to help you lower your footprint that comes from buying a brand new one and it directly helps the Planet too!

Your digital transformation



Discover our Digital Services for improved uptime and efficiency.

EcoFit™

Digital-Ready Modernization

Our answer



- Extend the life of your aging electrical distribution by replacing wearing components and adding digital capabilities while avoiding costly full replacement.
- Upgrade legacy assets with advanced sensors.
- Both solutions connect your equipment to the digital ecosystem to enable 24/7 remote monitoring and AI-driven condition-based maintenance.
- This approach helps reduce unplanned downtime, optimize performance, and keep your operations running smoothly - while promoting sustainable practices.



EcoCare Service Plan with Membership



Discover more about EcoCare.

EcoCare for Electrical Distribution Equipment

Next Generation Service Plan

EcoCare is a next-generation services plan that can help significantly **reduce downtime**, improve operational efficiency and streamline safety and compliance.

It combines AI-powered condition-based maintenance with 24/7 remote monitoring and predictive analytics.
Beyond monitoring, EcoCare goes further with a membership than unlocks exclusive benefits and faster, prioritized support, including customer success plan, advanced technical support and emergency break-fix interventions (remote and on-site under SLA).

It also features member rates on spare parts, on-site intervention and training programs.
By subscribing to EcoCare, you can benefit from:

- Up to -75% electrical failure risk and unplanned downtime(1)
- Up to -40% on-site maintenance activities and planned downtime(2)
- Extended assets lifespan, enabling better prioritization of future replacements

Watch the video

EcoCare features

Service Plan		Essential	Advanced	Advanced+
Extended Warranty*	• Extended coverage beyond the product standard warranty according to Terms & Conditions, including repair parts and On-site labor*	●	●	●
Monitor & optimize	24/7 Monitoring and alarming for connected assets and systems			
	• Technical advice in case of alarms, remote diagnosis and troubleshooting (call, email or chat)	●	●	●
	• Regular reports and monitoring dashboards with Indexes (including fire prevention)	●	●	●
	Experts Consultancy with advanced analytics			
	• Customized reports on assets and sytems with experts' recommendations (with Health index)	-	●	●
	• Recommendations for dynamic maintenance plan (with Maintenance index)	-	-	●
	Partial Discharge for Medium-voltage switchgear			
	• Technical assistance and insights (with Partial Discharge index)	-	Option	Option
	Advanced monitoring for Oil Transformers			
	• Continuous health monitoring of Oil Transformers with quarterly expert reports	-	Option	Option
Preventive Maintenance	Condition-based maintenance			
	• On-site maintenance visit(s) by qualified Services Representative following dynamic scheduling recommendations	-	-	●
	Scheduled maintenance			
	• On-site maintenance visit(s) by qualified Services Representative according to manufacturer recommendations	Option	Option	Option
	• Manufacturer asset diagnostics visits for more insights	Option	Option	Option
Corrective maintenance	Break-fix on site emergency intervention			
	• On-site remedial intervention performed by qualified Services Representative	Option**	Option**	●
	• Spare parts required for on-site remedial intervention	Option**	Option**	Option**

(*) Applicable for new and modernized equipment sold together with EcoCare from Day 1 and up to 5 years maximum total warranty duration.
(**) It can be either an option or at member rates, depending on country availability.

(1) This percentage is non-contractual and is based on our experience and expertise for the main root cause of electrical failure risk observed in low and medium-voltage equipment and for which Schneider Electric has developed solutions.
(2) This percentage is non-contractual and is based on the time between two manufacturer maintenance activities for low and medium voltage equipment which can be extended by up to 2 years compared to a traditional calendar-based maintenance contract, from 3 to 5 years.

Standard, Non-Standard & Customized solutions index



Discover EcoFit™: Modernization and circularity services.

Standard, Non-Standard & Customized solutions index

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Medium voltage Standard solutions

How to find an EcoFit™ Life Extension Advanced solution?

1 Select the "generic family". → 2 Select the "Panel type". → 3 Select the "Original device type".

Original Brand	1 MV CB or Contactor or Disconnector	MV Panel	MV Cradle to Cradle	2 Panel type	3 Original device type	New device type	Flyer N°	Page
Square D	✓			5-15 kV MC switchgear	VAD2-3 (USA)	Magnum CB	SERED111036EN	B2
CEM, Delle Alsthom, GEC-Alsthom	✓			Cemafluor C26.2	FPR	FPR	SERED111185EN	B28
Merlin Gerin	✓			Fluair F100 - F200	FG1 - FG2	EasyPact EXE - EvoPact LF2 - LF3	SERED111012EN	B5
Concordia Sprecher, Sprecher & Schuh, GEC-Alsthom, Alstom, AREVA	✓			HP	HP - W - TW - TM	EvoPact HVX - VA	SERED111078EN	B8
GEC Alsthom, Alstom, AREVA, Schneider Electric	✓			HWX	HWX	HWX-EvoPact HVX	SERED21012EN	B34
GEC-Alsthom, Alstom, AREVA, Schneider Electric	✓			HWX	HWX	EvoPact HVX	SERED21011EN	B33
Merlin Gerin, Schneider Electric	✓			MCSet 1, 2, 3 MCSet 17.5	EVOLIS	EasyPact-EXE	SERED21064EN	B12
Alstom, AREVA, Schneider Electric	✓			PIX SF6	FPX	FPX	SERED111137EN	B37
AEG, Alstom	✓			R	VA - VAA	VA - VAA	SERED111188EN	B38
AEG, Alstom	✓			R	M - MC - IMC - E - AL - ALF - BAL - FAL - IFAL - TG	VA - VAA - Contactor	SERED111042EN	B16
AEG, Alstom, AREVA	✓			WK (A/B/C/D/E/F)	VA - VAA	VA - VAA	SERED111199EN	B43
AEG	✓			WK (A/B/C/D/E/F)	MC - AL - BAL - TG	VA - VAA - Contactor - LTRI	SERED111086EN	B24
Yorkshire Switchgear	✓			YSF6	YSF6	YSF6 EasyPact-EXE	SERED111066EN	B25
CEM, Delle Alsthom, GEC-Alsthom	✓			Cemafluor C26.0 and Cemafluor C26.1	CS and CX	FPR	SERED111028EN	B3

Discover the EcoFit™ Life Extension Advanced for Power product selector

Medium voltage Non-Standard solutions

Original Brand	1 MV CB or Contactor or Disconnector	MV Panel	MV Cradle to Cradle	2 Panel type	3 Original device type	New device type	Flyer N°	Page
Sprecher&Shuhe, GEC, GEC-Alsthom, Alstom, Areva, Schneider Electric	✓			AIS panel	L-TRI 36kV	L-TRI 36kV	SERED21065EN	B35
Nuova Magrini Galileo	✓			Epoclad	DHF & F	EvoPact LF1 - LF2 - LF3 - SF1	SERED111049EN	B4
Merlin Gerin	✓			Fluair F100C	R400 - R400D	TeSys R400 - R400D	SERED111013EN	B29
Merlin Gerin	✓			Fluair F400C	FC4	EvoPact SF2	SERED111014EN	B6
Merlin Gerin	✓			Fluair F400G	FG4	EvoPact SF1 - SF2	SERED111015EN	B7
GEC, GEC- Alsthom, Alstom, AREVA	✓			HMC1072	HMC1072	HMC1072	SERED111062EN	B30
GEC, GEC-Alsthom, Alstom, AREVA	✓			HMC1172	HMC1172	HMC1172	SERED111063EN	B31
Schneider Electric, GEC, GEC-Alsthom, Alstom, AREVA	✓			HWX	HWX	HWX	SERED111166EN	B32
GOST standard	✓			K104	K104	Evolis - EvoPact LF	SERED111164EN	B9
GOST standard	✓			KRU	KRU 2-10	EasyPact EXE - Evolis - EvoPact LF1	SERED111165EN	B10
Federal Pioneer	✓			METALCLAD SWITCHGEAR	DST 2 & 5	DST 2V & 5V	SERED111067EN	B11
Merlin Gerin	✓			MOTORSTART P50D	C - CD	CTV1 - TeSys R400 - R400D	SERED111005EN	B13
Merlin Gerin	✓			MOTORSTART P500D	C1 - CD1	CTV1 - TeSys R400 - R400D	SERED111006EN	B14
Delle	✓			NORMABLOC N13XX	HL	EvoPact HVX - FPX	SERED111033EN	B15
GEC-Alsthom	✓			NORMACLAD PX12 - 24	FPX	FPX	SERED111124EN	B36
GOST standard	✓			RSW	RSW	Evolis EasyPact-EXE - EvoPact LF	SERED111163EN	B17
Ansaldo	✓			Siclad	MAG II	EvoPact LF1 - LF2	SERED111050EN	B18
Square D	✓			Solenarc DSE Metal-Clad switchgear	DSE	Magnum CB	SERED111037EN	B19
Nuova Magrini Galileo	✓			Venus	GI-GL	EvoPact LF1 - LF3	SERED111051EN	B20
GEC-Alsthom, Alstom, AREVA	✓			VMX	VMX	VMX	SERED111154EN	B39
AEG, Alstom, AREVA	✓			WBA	VA - VAA	VA - VAA	SERED111189EN	B40
AEG, Alstom, AREVA	✓			WBA	ECA - BAL - AL	VA - VAA - Contactor	SERED111082EN	B21
AEG, Alstom, AREVA	✓			WBB	VA - VAA	VA - VAA	SERED111198EN	B41
AEG, Alstom, AREVA	✓			WBB	ECA - BAL - AL	VA - VAA - Contactor	SERED111084EN	B22
AEG, Alstom, AREVA, Schneider Electric	✓			WBD	VA - VAA	VA - VAA	SERED111195EN	B42
AEG, Alstom, AREVA, Schneider Electric	✓			WBD	HVX-C	VA - VAA	SERED111129EN	B23
AEG, Alstom, AREVA		✓		AHA	AHA panel	AHA panel	SERED111167EN	B44
Merlin Gerin		✓		Fluair F100 - F200 panel	F100 - F200 panel	F100 - F200 panel	SERED111071EN	B45
GEC-Alsthom		✓		Normaclad PX 12-24	PX 12-24 panel	PX 12-24 panel	SERED111091EN	B46
Alstom, AREVA, Schneider Electric		✓		PIX	PIX - SF6 panel	PIX - SF6 panel	SERED111157EN	B47
GEC-Alsthom, Alstom, AREVA		✓		VMX	VMX panel	VMX panel	SERED111097EN	B48
AEG, Alstom, AREVA		✓		WBA	WBA panel	WBA panel	SERED111081EN	B49
AEG, Alstom, AREVA		✓		WBB	WBB panel	WBB panel	SERED111083EN	B50
AEG, Alstom, AREVA, Schneider Electric		✓		WBD	WBD panel	WBD panel	SERED111128EN	B51
AEG, Alstom, AREVA		✓		WK	WK panel	WK panel	SERED111085EN	B52
All brands			✓	Cradle to Cradle	All breaker types	Evolis EasyPact-EXE MC Cassette	SERED111105EN	B26
All brands			✓	Cradle to Cradle	All breaker types	F400 Cassette	SERED111106EN	B27

How to find an EcoFit™ Life Extension solution?

1 Select the "generic family". → 2 Select the "Panel type". → 3 Select the "Original device type".

Low voltage Standard solutions

Original Brand	1 LV CB or Contactor	LV Drawer	Automatic compensation	2 Panel type	3 Original device type	New device type	Flyer N°	Page
Merlin Gerin	✓			NA	ComPacT C801-C1251	ComPacT NS800 - NS1250	SERED111022EN	C8
Merlin Gerin	✓			NA	MasterPacT M08 - M63	MasterPacT MTZ2 08 - MTZ3 63	SERED111181EN	C21
Merlin Gerin	✓			NA	SelPact	MasterPacT MTZ2 - MTZ3	SERED111020EN	C23
Schneider Electric	✓			NA	MasterPacT NT-NW	MasterPacT MTZ		C24
ITE, ABB, BBC	✓			NA	K-225, K-600, K-800 Series	MasterPacT MTZ1	SERED111245EN	C15
ITE, ABB, BBC	✓			NA	K-1600 Series	MasterPacT MTZ2	SERED111244EN	C16
General Electric	✓			NA	AK-(1-2-3-4-5) -15/25 Series	MasterPacT MTZ1	SERED111232EN	C2
General Electric	✓			NA	AK-(1A-2A-3A-4A-5A) - 15/25 Series	MasterPacT MTZ1	SERED111249EN	C3
General Electric	✓			NA	AK-(1-2-3-4-5) - 50 Series	MasterPacT MTZ2	SERED111250EN	C4
General Electric	✓			NA	AKR-30 Series	MasterPacT MTZ1	SERED111247EN	C5
General Electric	✓			NA	AKR-50 Series	MasterPacT MTZ2	SERED111248EN	C6
General Electric	✓			NA	AKRT-50 Series	MasterPacT MTZ2	SERED111246EN	C7
Merlin Gerin	✓			NA	DA	MasterPacT MTZ2 - MTZ3	SERED111019EN	C9
Square D	✓			NA	DS-206, DS-206H, DS-206E Series	MasterPacT MTZ2	SERED111240EN	C11
Square D	✓			NA	DS-416, DS-416S, DS-416H Series	MasterPacT MTZ2	SERED111241EN	C12
Square D	✓			NA	DS-420 Series	MasterPacT MTZ2	SERED111238EN	C13
ABB	✓			NA	Emax	MTZ Active	SERED21179EN	C28

Low voltage Non-Standard solutions

Original Brand	1 LV CB or Contactor	LV Drawer	Automatic compensation	2 Panel type	3 Original device type	New device type	Flyer N°	Page
Cutler-Hammer, Westinghouse	✓			NA	DS-206, DS-206H, DS-206E Series	MasterPacT MTZ2	SERED111235EN	C10
Federal Pioneer	✓			NA	H series	MasterPacT MTZ	SERED111068EN	C14
ITE, ABB, BBC	✓			NA	KDON-600, KDON-800, KDON-1600 Series	MasterPacT MTZ1	SERED111243EN	C17
Allis-Chalmers	✓			NA	LA-600, LA-800 Series	MasterPacT MTZ1	SERED111239EN	C18
Allis-Chalmers	✓			NA	LA-1600 Series	MasterPacT MTZ2	SERED111237EN	C19
Allis-Chalmers	✓			NA	LAF-600, LAF-800 Series	MasterPacT MTZ1	SERED111236EN	C20
Square D, Westinghouse	✓			NA	SE	MasterPacT MTZ2	SERED111039EN	C22
Merlin Gerin	✓			NA	LV Circuit Breaker - Associated offers			C26
Siemens / Allis - Chalmers	✓			RL	RL-800, RL-1600, RL-2000 Series	MasterPacT MTZ	SERED21001EN	C27
Merlin Gerin		✓		T140	T140 drawers	T140 drawers	SERED111094EN	C29
Merlin Gerin		✓		MB400	MB400 drawers	MB400 drawers	SERED111095EN	C30
Merlin Gerin	✓			NA	LV Drawers - Associated offers			C31

How to find an EcoFit™ Life Extension solution?

1 Select the "generic family". → 2 Select the "Original device type".

ASCO ATS

Original Brand	1 Automatic Transfer Switch (ATS)	2 Original device type	New device type	Flyer N°	Page
ASCO	✓	ATS series 200/300 - Group-1	Group-G controller	SERED21004EN	D2
ASCO	✓	ATS 940 / 962 series - Group-7/7A/9	Group-5 controller	SERED21005EN	D3
ASCO	✓	Power Meter - 5220	Power Meter - 5210	SERED21006EN	D4
ASCO	✓	Communication Module - 72E	72EE & 72EE2	SERED21007EN	D5
ASCO	✓	ATS 940 / 962 Series	Series 7000	SERED21008EN	D6

Discover the EcoFit™ Life Extension Advanced for Power product selector

How to find an EcoFit™ Life Extension solution?

1 Select the "generic family". → 2 Select the "Panel type". → 3 Select the "Original device type".

Power and distribution transformers Standard solutions

Original Brand	1 Dry	Oil		Original device type	New device type	Flyer N°	Page
All brands	✓			All	Trihal	SERED111218EN	E2
All brands		✓		All	Minera	SERED111219EN	E3

Protection relays Standard solutions

Original Brand	1 Protection relay	2 Panel type	3 Original device type	New device type	Flyer SERED N°	Page
Merlin Gerin, Schneider Electric	✓	All	Sepam series 20	PowerLogic P3	SERED20036EN	G3
Merlin Gerin, Schneider Electric	✓	All	Sepam series 40	PowerLogic P3	SERED20037EN	G4
Alstom, AREVA, Schneider Electric	✓	All	MiCOM Px20 (20TE)	PowerLogic P5	SERED111202EN	G5
Alstom, AREVA, Schneider Electric	✓	All	MiCOM Px20 (30TE)	PowerLogic P5	SERED111286EN	G6
Merlin Gerin, Schneider Electric	✓	All	Sepam series 20	PowerLogic P5	SERED111204EN	G7
Merlin Gerin, Schneider Electric	✓	All	Sepam series 40	PowerLogic P5	SERED111285EN	G8
Merlin Gerin	✓	All	Sepam 2000	Sepam series 60 or series 80	SERED111087EN	G9
Merlin Gerin, Schneider Electric	✓	All	Sepam series 10	PowerLogic™ P1	SERED21160EN	G10
Merlin Gerin, Schneider Electric, Areva, Vamp	✓	All	Sepam	MiCOM or Vamp Protection Relays	SERED21180EN	G11
Areva, Schneider Electric	✓	All	Feeder Automation, RTUs and Substation Controllers		SERED21222EN	G12
Schneider Electric, Areva, Vamp	✓	All	Vamp Protection Relays		SERED21182EN	G13
Schneider Electric, Areva, Alsthom, Gec Alstom	✓	All	MiCOM Px20		SERED21183EN	G14
Delle Alsthom, Areva, Alsthom, Gec Alstom, CEM	✓	All	Legacy Protection Relays		SERED21184EN	G15

How to find an EcoFit™ Life Extension solution?

1 Select the "generic family". → 2 Select the "Original device type".

Substation automation Standard solutions

Original Brand	1 Control System	2 Original device type	New device type	Flyer N°	Page
Merlin Gerin, Schneider Electric	✓	Talus or T200 S or I, R200/ATS100, RCV420 or RNS11	PowerLogic T300	SERED20038EN	H2
Merlin Gerin, Schneider Electric	✓	Talus or T200 E, P or I	PowerLogic T300	SERED20039EN	H4
Schneider Electric	✓	ADVC1	ADVC 3	SERED111220EN	H7
Schneider Electric	✓	ADVC 2	ADVC 3	SERED111205EN	H8
Schneider Electric	✓	ADVC Lite	ADVC 3	SERED111221EN	H9
Alstom, AREVA	✓	Bay Controller BM9x00	MiCOM C264	SERED111144EN	H10
Alstom, AREVA	✓	DCX	MiCOM C264	SERED111217EN	H11
AREVA	✓	PACIS OI V3.X up to ePAS	PACiS EcoSUI	NRJED113543EN	H12
AREVA	✓	PSCN3020 HMI	EcoStruxure Substation Operation user interface	NRJED113562EN	H13
Schneider Electric	✓	PTCC	ADVC 3	SERED111222EN	H14
Schneider Electric	✓	Seefox HMI	EcoStruxure Substation Operation user interface	SERED111143EN	H15

Digital Power Standard solutions

Original Brand	1 Active Harmonic Filtering	Insulation monitoring	Power Factor Correction	Power Quality Meters	Power Monitoring Power SCADA	2 Original device type	New device type	Flyer N°	Page
Square D, Schneider Electric	✓					AccuSine PCS or PFV	PowerLogic AccuSine PCS+ or PFV+	SERED111346EN	I2
MGE, APC, Schneider Electric	✓					AccuSine SWP	AccuSine PCSn	SERED111347EN	I3
Merlin Gerin, Schneider Electric			✓			VarSet	PowerLogic PFC or PowerLogic AccuSine EVC+	SERED111287EN	I4
Merlin Gerin, Schneider Electric			✓			Varlogic	VarPlus Logic	SERED111348EN	I5
Schneider Electric, Square D				✓		PM, ME, iME, EN basic meters	New range	SERED111349EN	I6
Schneider Electric, Square D				✓		CM, DM, ION & PM meters	PMxxxx range & ION9000	SERED111350EN	I8
ION-E					✓	ION-E, SPM & PME software	EcostruXure Power Monitoring Expert (PME)	SERED111351EN	I9
Schneider Electric					✓	Power Manager software	Energy Expert software	SERED111352EN	I10
Schneider Electric, Square D					✓	PLS & PSO software	EcoStruXure Power Operation EPO 2021	SERED111353EN	I11
Merlin Gerin, Schneider Electric		✓				XM, XL, XD, XLI, XTU	IMD - IFL	SERED111354EN	I12
AREVA, then Schneider Electric MRxxx System		✓				MRxxx and MZxxx series	IMD-IM20 or IMD-IM400	SERED20040EN	I13
Schneider Electric, Square D				✓		PowerTag Link, Smart Link SIB and Legacy Gateways	EnerlinX Panel Server	SERED111355EN	I14

Medium voltage customized solutions

Those solutions have been manufactured and installed all over the world to answer specific customer request.
Schneider Electric can help you to identify the right solution to modernise your installation with a site visit if required.

Original Brand	Panel type	Original device type	Un (kV)	In (A)	Isc (kA)	New device type
ABB	AIS	E7512 / 10	10	1250	40	HWX
ABB	AIS	EKU5012 / 10	10	1250	50	HWX
ABB	AIS	EKU5016 / 10	10	1600	50	HWX
ABB	AIS	EKU5025 / 10	10	2500	50	HWX
ABB	AIS	GR256	12	630	13,1	HWX
ABB	VHE800	HKK12 / 1226	12	1250	26,3	HWX
ABB	VHE800	HKK12 / 1240	12	1250	40	HWX
ABB	VHE950	HKK12 / 3140	12	2500	40	HWX
ABB	AIS	JVE301	12	400	40	HWX
ABB	AIS	MS 2	12	1250	40	HWX
ABB	AIS	MS 3	12	1600	40	HWX
ABB	AIS	MT1	12	1250	26,3	HWX
ABB	AIS	MT2	12	1250	26,3	HWX
ABB	AIS	OD1M	12	400	26,3	HWX
ABB	AIS	S F ASG	12-16	1250 to 2500	26-40	HWX
ABB	Caloremag	OD3/OD4	7.2	1250	31,5	LF2
ABB	VHA-12S	VRC	7,2	400	25	LF
ABB	HA3zc	GCB	12	630 to 2500	40	LF
AEG	FKCM4 / 24-2	VA / VAA / LTRI / AL	24	up to 1250	up to 25	VA/VAA
AEG	FKCM5 / 12-2	VA / VAA / LTRI / AL	12	up to 1250	up to 25	VA/VAA
AEG	FKEM4 / 24 - 2 / 721	VA / VAA / LTRI / AL	24	up to 1250	up to 25	VA/VAA
AEG	FKEM4 / 24 - 2 / 723	VA / VAA / LTRI / AL	24	up to 1250	up to 25	VA/VAA
AEG, Alstom, AREVA	AHA	ECA	12	1200, 2500, 4000	31.5 / 50	HVX-O^2
ALIND	AIS	HL430	12	1250	40	HWX
Allis-Chalmers & Siemens-Allis	AIS	FA	4,16	3000	41	Magnum
Allis-Chalmers & Siemens-Allis	AIS	MA	4,16	1200, 2000	40 & 50	Magnum
Allis-Chalmers & Siemens-Allis	AIS	FB	7,2 &13,8	1200, 2000	18	Magnum
Allis-Chalmers & Siemens-Allis	AIS	FC, MC	13,8	1200, 2000, 3000	18 - 28	Magnum
Allis-Chalmers & Siemens-Allis	AIS	FC	13,8	1200, 2000	37	Magnum
ALSTHOM	FP	HVX	24	630	25	HVX
Alsthom	NORMABLOC-DNL4	HL	12	2500	40	FPX
Alsthom	WBS	VB6	24	1250A	25KA	HVX-O^2
Alstom	GMA Version 1	GMA	12	2000	25	GMA Version 2
Alstom	AHA	ECA	up to 17.5	1250	31.5	HVX-O^2
Alstom	Sachsenwerk	CB	12	630	16	SF1
Alstom / AREVA / Schneider Electric	Fluokit-M9	VB x-xx/x L G3 (CRR1-2) (lateral)	up to 24	up to 1250	up to 25	Evolis (vacuum lateral) - SF1 (lateral)
Alstom / AREVA / Schneider Electric	Fluokit-M9	DPI x-xx/x L G3 (CRR1-2) (lateral)	up to 24	up to 1250	up to 25	SFset (SF6 - lateral)
Alstom / AREVA / Schneider Electric	Fluokit-M9	VBL	12-17.5	630-1250	up to 25	SF1
Alstom / AREVA / Schneider Electric	Fluokit-M9	DPIL	12-17.5	630-1250	up to 25	SFset
Alstom / AREVA / Schneider Electric	GIS	CBR	27.5	1250-2000	25	CBR
Alstom / AREVA / Schneider Electric	GIS	SDR	17-27.5	1250-1600	12.5	SDR
ARTECHE	AIS	HAF6142 - 4	24	1250	25	EasyPact EXE
ASEA	VHE	HCA 24 / 1225	24	1250	25	VAA 6312/24 P275 or 3AH5
ASEA	VHE	HCA 24 / 2540	24	2500	25	VA 6325/24 P2753AH5 or 3A
ASEA	VHE, VHD	HKK	12	up to 3150	up to 40	LF1, LF2, HVX, VA
ASEA	VHE, VHD	HKK	24	up to 2500	up to 25	HVX
BBC, EIB	AIS	DB (frontal)	17	up to 1250	up to 25	HVX17 / SF1
CGL	AIS	SFG-40S	7,2	1250	31.5	Rollarc
Calor Emag	AIS	OD3	12	630 to 1250	31.5	EasyPact EXE
Calor Emag	AIS	OD4	12	630 to 1250	31.5	EasyPact EXE
CONCORDIA SPRECHER	PIC-106	HP	12-24	up to 1600	up to 25	HVX
CONCORDIA SPRECHER	PID 104 / 105 / 106	HP	12-24	up to 1600	up to 25	HVX
CONCORDIA SPRECHER	SC - SD 204 / 206	HVTW(z)	12-24	up to 1600	up to 25	HVX
CONCORDIA SPRECHER	SCC 204 / 206	HPCTW	12-24	up to 1600	up to 25	HVX
CONCORDIA SPRECHER	SCD 204	HPDTW	12-24	up to 1600	up to 25	HVX
DELLE ALSTHOM	MV cubicle	HP75-125 / 35KV	36	320	31,5	SF2-F400
DELLE	FLUOMATIC - N962	SFC	7,2	400	12.5	GFA
Delta	H2000	LF1, LF2, LF3	12 - 24	1250	25 - 40	LF1, LF2, LF3
Delta	MSX	HVX, VA	12 - 24	2500 - 3150	25 - 40	HVX, VA
EGEMAC	8BK	3AF6542-4	24	1250	25	VAA 6312/24 P275 or 3AH3
EIB	AIS	A (frontal)	17	up to 1250	up to 25	HVX17 / SF1
EIB	Modulec CT 17.5	A	12 to 24	630 - 1250	up to 25	SF/HVX
EIB, AEG, Alstom	Fluokit M9	VB x-xx/x L G2 (CRR1000) (lateral)	up to 24	up to 1250	up to 25	Evolis (vacuum lateral) - SF1 (SF6 lateral)
EIB, AEG, Alstom	Fluokit M9	DPI x-xx/x L G2 (CRR1000) (lateral)	up to 24	up to 1250	up to 25	SFset (SF6 - lateral)
EIB, AEG, Alstom, AREVA	Fluokit M9	VB x-xx/x F (CRR1000) (frontal)	up to 24	up to 1250	up to 25	HVX (vacuum - frontal) - SF1 (SF6 - frontal)
EIB, AEG, Alstom, AREVA	Fluokit M9	DPI x-xx/x F (CRR1000) (frontal)	up to 24	up to 1250	up to 25	SFset (SF6 - frontal)
EIB, AEG, Alstom, AREVA	AIS	DEC x-xx/x F (CRR1000) (frontal)	up to 40,5	up to 2500	up to 31,5 at 24kV; up to 25kA at 36/40,5kV	ISF2
Federal Pacific	AIS	DST - DST2	4,16	1200, 2000,3000	29-41	Magnum
Federal Pacific	AIS	DST - DST2	13,8	1200, 2000	18-28	Magnum
FUJI	HF	HF5150 - 10M	12	2000	40	HVX IEC
FUJI	AIS	HF515	13,8	3000	26,2	3AH3
FUJI	HF55	OCB	7.2	600	25	EasyPact EXE
GEC	BVX	KAD	12	400 to 1250	up to 20	VMX
General Electric	AIS	AM	4,16	400	Fused	Magnum
General Electric	AIS	AM	4,16	1200, 2000,3000	40	Magnum
General Electric	AIS	AM	7,2	1200, 2000, 3000	33	Magnum
General Electric	AIS	AM	13,8	1200, 2000	18 up to 37	Magnum
General Electric	AIS	AM - 7.2	7,2	1200, 2000, 3000	33	Magnum
General Electric	AIS	AM - 13.8 Tall-Boy	13,8	3000	37	Magnum
General Electric	AIS	AM - 4.16	4,16	600, 1200	20	Magnum
General Electric	AIS	AMH	4,76	1200, 2000	29	Magnum
General Electric	AIS	AMH - 4.76	4,76	1200, 2000	29	Magnum

Medium voltage customized solutions

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Original Brand	Panel type	Original device type	Un (kV)	In (A)	Isc (kA)	New device type
Hitachi	MV cubicle	CVG - 15F - 25	7,2	630	25	EasyPact EXE
Hitachi	HW	MGH 10L - 25	13,8	630	25	VA 8012/17 P210 or 3AH5
Hitachi	HB	MGH 10L - 25	13,8	1250	25	VA 8012/17 P210 or 3AH5
Hitachi	HB	MGH 10T - 25	13,8	1600	25	VA 8020/17 P210 or 3AH5
Hitachi	HW	MGH 10V - 25	13,8	2000	25	VA 8020/17 P210 or 3AH5
Inoue	AIS	HVX	12	630 - 1600	31,5	HVX
ITE	AIS	5-HV	4,16	1200, 2000	29 to 40	Magnum
ITE / ABB	AIS	5-HK	4,16	1200, 2000, 3000	40 to 50	Magnum
ITE / ABB	AIS	7.5-HK	7,2	1200, 2000	33	Magnum
ITE / ABB	AIS	15-HK	13,8	1200, 2000, 3000	18 to 37	Magnum
JYOTI	AIS	MT2-1208-20	12	1250	25	EasyPact EXE
LG	AIS	GVB	7.2	630	31.5	EasyPact EXE
McGraw	AIS	PSD	13,8	1200, 2000	18	Magnum
McGraw	AIS	WSA	13,8	1200, 2000	18	Magnum
Merlin Gerin	V23-60	DIS23-D3	24	630	25	SF
Merlin Gerin	F300	FG3 (750mm)	24	1250	25	EvoPact HVX-O²
Merlin Gerin / Lorenzetti Inebrasa	Flurin	FG1	17.5	1250	25	LF
Merlin Gerin / Lorenzetti Inebrasa	Lorin	FG1, FG2	17.5	1250	25	LF
Merlin Gerin / Lorenzetti Inebrasa	Flurin	FG2	17.5	1250	25	LF
Merlin Gerin / Lorenzetti Inebrasa	CCM III	VC TOYO	7.2	400	50	Rollarc
Merlin Gerin / Lorenzetti Inebrasa	CCM II	C1	7,2	400	50	Rollarc
Mitsubishi	AIS	VF / FM	12	1250	31.5	EasyPact EXE
Mitsubishi	AIS	6 DHE 32 M	4.76	1200 to 2000	29	LF
NGEF	AIS	EKU - GR256	12	1250	31.5	EasyPact EXE
NGEF	AIS	EKU 5012 / 10	6.6	1250	30.6	EasyPact EXE
NGEF	AIS	GR256	12	1250	31.5	EasyPact EXE
NISSIN	AIS	VSR	7.2	400A	4	CTV
NMG	AIS	10 MG 500	7.2	630A	25	LF
SACE	AIS	D6	17.5	1250	25	LF
SACE	DIARC	DR 17.5-50	17.5	800, 1250, 3150	20	HVX
SHINKO	MV cubicle	HL6-9	24	630	25	SF1
SIEMENS	8AA20	3AH1	12	800	20	VA 5012/12 P210 or 3AH1
SIEMENS	8BC	3AB - 10N / 4000	7,2	4000	73	3AH3
SIEMENS	8BC	3AB - 10N / 2500	7,2	2500	40	3AH3
SIEMENS	8BD1	3AC	7.2	630 to 2000	25	EasyPact EXE
SIEMENS	8BD1	3AC	12	1250 to 2500	40	HWX
SIEMENS	8BK20	3AH 1115 - 2	12	1250	31,5	VA 8025/12 P210 or 3AH5
SIEMENS	AIS	H512 / H515	12	1250	31.5	EasyPact EXE
SIEMENS	AIS	3TL / 1BF	7.2	450	6	CVX
SIEMENS	GWS	H515	24	630	16	HVX 24-16-06F210 or VD4 2406-16
SIEMENS	GWHS	3AH1	12	630	25	HVX 12-25-06F150 or VM1 12.06.25
SILIN	MV cubicle	B4SE0796011	36	1250	25	HVX-O² (EP)
Square D	AIS	DSE	4,16	1200	29	Magnum
Square D	AIS	DSE23	4,16	2000	29	Magnum
Square D	AIS	DSE25	4,16	3000	41	Magnum
Square D	AIS	DSE-65	13,8	1200	up to 28	Magnum
Square D	AIS	DSE-68	13,8	3000	37	Magnum
Square D	AIS	VAD2	4,16	1200	up to 41	Magnum
Square D	AIS	VAD2	13,8	1200, 3000	37	Magnum
Square D	AIS	VAD3	4,16	1200, 2000	up to 41	Magnum
Square D	AIS	VAD3	13,8	1200, 2000	up to 28	Magnum
new Toshiba	AIS	HVX	7,2	1250	40	HVX
VOIGHT HAEFFENER	MV cubicle	10 / 100 LAD - 6	10	1000	31,5	LF2 MCset
VOLTAS	AIS	BMTT	12	1250	26,3	HWX
VOLTAS	AIS	BE	12	1250	40	HWX
VOLTAS	AIS	BEC	12	1250	40	HWX
VOLTAS	AIS	BMTT	12	1250	40	HWX
VOLTAS	AIS	FG2	12	1250	40	LF
VOLTAS	AIS	FG2	7,2	2000,2500,3150	40	LF
VOLTAS	AIS	FG2	7,2	1250	31.5/ 40	LF
VOLTAS	AIS	FG2	12	1250	40	LF
VOLTAS	AIS	FG2	12	1250	40	HWX
VOLTAS	AIS	FP	12	1250	40	HWX
VOLTAS	AIS	HKK	12	1250	40	HWX
VOLTAS	AIS	HKO	12	1250	40	HWX
Westinghouse	AIS	50 - DH	4,16	1200, 2000	29 / 41	Magnum
Westinghouse	AIS	75 - DH	7,2	1200, 2000	33	Magnum
Westinghouse	AIS	150 - DH	13,8	1200, 2000	18 / 28	Magnum
Westinghouse	AIS	150 - DH	13,8	1200, 2000, 3000	37	Magnum
Westinghouse	AIS	50 - DH	4,16	1200, 2000	29 / 41	Magnum
Westinghouse	AIS	50 - DHP	4,16	1200, 2000, 3000	41	Magnum
Westinghouse	AIS	75 - DHP	7,2	1200, 2000, 3000	33	Magnum
Westinghouse	AIS	75 - DHP	7,2	320	Fused	Magnum
Westinghouse	AIS	150 - DHP	13,8	1200, 2000	18 / 28	Magnum
Westinghouse	AIS	150 - DHP	13,8	3000	33	Magnum
Westinghouse	AIS	5WYB	4,16	1200, 2000, 3000	41	Magnum

Discover the EcoFit™ Life Extension Advanced for Power product selector

Medium voltage customized solutions

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Original Brand	Panel type	Original device type	Un (kV)	In (A)	Isc (kA)	New device type
Westinghouse	AIS	8WYB	7,2	1200, 2000, 3000	33	Magnum
Westinghouse	AIS	15WYB	13,8	1200, 2000	18 / 28	Magnum
Westinghouse	AIS	15WYB	13,8	3000	33	Magnum
Westinghouse	DHP	Air Circuit Breaker	5	1200	31.5	EasyPact EXE

Low voltage EcoFit™ Modernize - Revive customized solutions

Original Brand	Panel type / Range	Original device type	Type In (A)	New device type
ABB	Novomax	NovomaxG2	1250 - 2000	MasterPacT NT/NW/MTZ
ABB	Novomax	NovomaxG3	1600 - 2000	MasterPacT NT/NW/MTZ
ABB	Novomax	NovomaxG5	4500	MasterPacT NT/NW/MTZ
new ABB	Any	Emax E1	800 - 1600	MasterPacT NT/MTZ
new ABB	Any	Emax E2	800 - 2000	MasterPacT NT/NW/MTZ
new ABB	Any	Emax E3	800 - 3200	MasterPacT NW/MTZ
new ABB	Any	Emax E4	3200 - 4000	MasterPacT NW/MTZ
new ABB	Any	Emax E6	3200 - 6300	MasterPacT NW/MTZ
new ABB	Any	Megamax E1	1250 - 2000	MasterPacT NT/NW/MTZ
new ABB	Any	Megamax E2	2000 - 2500	MasterPacT NW/MTZ
new ABB	Any	Megamax E3	2000 - 3000	MasterPacT NW/MTZ
new ABB	Any	Megamax E4	3200	MasterPacT NW/MTZ
new ABB	Any	Megamax E5	3200	MasterPacT NW/MTZ
new ABB	Any	Megamax E6	6300	MasterPacT NW/MTZ
new ABB	Any	Novomax G2	1250 - 3000	MasterPacT NT/NW/MTZ
new ABB	Any	Novomax G3	1600 - 2500	MasterPacT NW/MTZ
new ABB	Any	Novomax G30	800 - 1000	MasterPacT NT/MTZ
new ABB	Any	Novomax G4	3200	MasterPacT NW/MTZ
new ABB	Any	Novomax G5	4000 - 5000	MasterPacT NW/MTZ
new ABB	Any	Otomax	2000	MasterPacT NW/ MTZ
new ABB	Any	Otomax P1	800 - 3000	MasterPacT NT/NW/MTZ
new ABB	Any	Otomax P2C	1000 - 4000	MasterPacT NT/NW/MTZ
new ABB	Any	Otomax VTM	1250	MasterPacT NT/MTZ
new AEG	Any	ALG	2000	MasterPacT NW/MTZ
new AEG	Any	M	1000 - 3000	MasterPacT NT/NW/MTZ
new AEG	Any	ME	400 - 6300	MasterPacT NT/NW/MTZ
new ASEA	Any	ALG	1250 - 3200	MasterPacT NW/MTZ
ASEA/ABB	VMG	VMG	800	MasterPacT NT/NW/MTZ
ASEA/ABB	VMG	VMG	1250	MasterPacT NT/NW/MTZ
ASEA/ABB	VMG	VMG	1600	MasterPacT NT/NW/MTZ
ASEA/ABB	VMG	VMG	2000	MasterPacT NT/NW/MTZ
ASEA/ABB	VMG	VMG	2500	MasterPacT NT/NW/MTZ
ASEA/ABB	VMG	VMG	3200	MasterPacT NT/NW/MTZ
Cutler-Hammer, WestingHouse	Any	DS-206, DS-206H, DS-206E	800	MasterPacT MTZ2
Cutler-Hammer, WestingHouse	Any	DS-416, DS-416S, DS-416H	1600	MasterPacT MTZ2
Cutler-Hammer, WestingHouse	Any	DS-420	2000	MasterPacT MTZ2
Federal Pacific	FM	FM - 600 Fused	600	MasterPacT NT/NW/MTZ
Federal Pacific	FM	FM - 1600 Fused	1600	MasterPacT NT/NW/MTZ
Federal Pacific	FP	FP - 25 / FPS - 25	800	MasterPacT NT/NW/MTZ
Federal Pacific	FP	FPS - 30	800	MasterPacT NT/NW/MTZ
Federal Pacific	FP	FP - 50	1600	MasterPacT NT/NW/MTZ
Federal Pacific	FP	FP - 50 - H3, 14" Frame (IEC)	800	MasterPacT NT/NW/MTZ
Federal Pacific	FP	FP - 50 - H3, 21" Frame (ANSI)	800	MasterPacT NT/NW/MTZ
Federal Pacific	FP	FP - 50 - H3, 21" Frame (IEC & ANSI)	2000	MasterPacT NT/NW/MTZ
Federal Pacific	FP	FP-75	3200	MasterPacT NT/NW/MTZ
Federal Pioneer	HL	25HL-2	800	MasterPacT NT/NW/MTZ
Federal Pioneer	HL	25HL-2	600	MasterPacT NT/NW/MTZ
Federal Pioneer	HL	35HL-2	800	MasterPacT NT/NW/MTZ
Federal Pioneer	HL	50HL-2	1600	MasterPacT NT/NW/MTZ
Federal Pioneer	HL	65HL-2	2000	MasterPacT NT/NW/MTZ
Federal Pioneer	HL	75HL-2	3000	MasterPacT NT/NW/MTZ
General Electric	AE-1B (M.O.)	AE - 1B (M.O.)	800	MasterPacT NT/NW/MTZ
General Electric	AK	AK - (2A/3A/4A/5A)-50	1600	MasterPacT NT/NW/MTZ
General Electric	AKR	AKR/AKRT - 30 (AKD-8 swgr)	800	MasterPacT NT/NW/MTZ
General Electric	AKR	AKR with Contactor	540	MasterPacT NT/NW/MTZ
General Electric	AKR	AKRU - 30 (1 Position)	800	MasterPacT NT/NW/MTZ
General Electric	AKR	AKRU - 50 (1 Position)	1600	MasterPacT NT/NW/MTZ
General Electric	AKR	AKR - 75 (3 Pos./Ver. Bus)	3200	MasterPacT NT/NW/MTZ
General Electric	AL	AL - 2-50 (M.O.)	1600	MasterPacT NT/NW/MTZ
new General Electric	Any	M-Pact	800 - 4000	MasterPacT NW/ MTZ
new General Electric	Any	Power Break	800 - 3000	MasterPacT NT/NW/MTZ
new General Electric	Any	Power Break 2	800 - 2000	MasterPacT NT/NW/MTZ
new General Electric	Any	Record	800 - 1600	MasterPacT NT/MTZ
new Hundt & Weber	Any	HN / HE	800 - 3150	MasterPacT NT/NW/MTZ
new Hundt & Weber	Any	LH	800 - 3150	MasterPacT NT/NW/MTZ

Low voltage customized solutions

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Original Brand	Panel type / Range	Original device type	Type In (A)	New device type
new Hundt & Weber	Any	LS	800 - 1000	MasterPacT NT/MTZ
new Holec	Any	Torsimat 72G/H/K/M/P	1250 - 4000	MasterPacT NT/NW/MTZ
new Hyundai	Any	HAT	600 - 2500	MasterPacT NT/NW/MTZ
ITE / ABB / BBC	K-Line	K-600 / K-800 with MOC/TOC	800	MasterPacT NT/NW/MTZ
ITE / ABB / BBC	K-Line	K-2000 / K-2000S with TOC	2000	MasterPacT NT/NW/MTZ
ITE / ABB / BBC	K-Line	KB	600	MasterPacT NT/NW/MTZ
ITE / ABB / BBC	K-Line	KC	1600	MasterPacT NT/NW/MTZ
ITE / ABB / BBC	MB	MB-8 / MBE-8	800	MasterPacT NT/NW/MTZ
ITE / ABB / BBC	MB	MB-16 / MBE-16	1600	MasterPacT NT/NW/MTZ
ITE / ABB / BBC	K-Line	LKE-8	800	MasterPacT NT/NW/MTZ
ITE / ABB / BBC	Any	KDON-1600	800-1600A	MasterPacT MTZ2
KAFAK	KAFAK	SFBY	250	ComPacT NSX
KAFAK	KAFAK	SFBY	630	ComPacT NSX
Merlin Gerin	ComPacT CM	CM 1250 3P Fixed Front	1250	ComPacT NS
Merlin Gerin	ComPacT CM	CM 1600 4P HH Fixed	1600	MasterPacT NT/NW/MTZ
Merlin Gerin	InterPact	IN IN2500A 3P Fixed	2500	InterPact INS
new Mitsubishi	Any	AE	630 - 5000	MasterPacT NT/NW/MTZ
new Mitsubishi	Any	SS	1000 - 1600	MasterPacT NT/MTZ
Nuova Magrini Galileo	Any	B Control	800-4000A	MasterPacT MTZ1-MTZ2
new Siemens	SBS	SBS 1200	1200	MasterPacT NT/NW/MTZ
new Siemens	SBS	SBS 800	800	MasterPacT NT/NW/MTZ
new Siemens	Any	3WE	1000 - 4000	MasterPacT NT/NW/MTZ
new Siemens	Any	3WL	1000 - 5000	MasterPacT NT/NW/MTZ
new Siemens	Any	3WN1	630 - 3200	MasterPacT NT/NW/MTZ
new Siemens	Any	3WN6	630 - 3200	MasterPacT NT/NW/MTZ
new Siemens	Any	SBS	1200 - 2000	MasterPacT NW/MTZ
Siemens / Allis-Chalmers	RLE	RLE-800/RLE-1600	1600A	Masterpact MTZ2
Siemens / Allis-Chalmers	RLX	RLX-800/RLX-1600	1600A	Masterpact MTZ2
Square D	Any	MP-08 / MP-16	800 - 1600	MasterPacT NT/NW/MTZ
Square D	Any	MP-20	2000	MasterPacT NT/NW/MTZ
Square D	Any	MP-25 / MP-30	2500 - 3000	MasterPacT NT/NW/MTZ
Square D	Any	SED	800 - 3000	MasterPacT NT/NW/MTZ
Square D	Any	SEM (SED-M)	800 - 2000	MasterPacT NT/NW/MTZ
Square D	DSII	DSII-308	800	MasterPacT NT/NW/MTZ
Square D	DSII	DSII-508	800	MasterPacT NT/NW/MTZ
Square D	DSII	DSII-608	800	MasterPacT NT/NW/MTZ
Square D	DSII	DSII-516	1600	MasterPacT NT/NW/MTZ
Square D	DSII	DSII-616	1600	MasterPacT NT/NW/MTZ
Square D	DSII	DSII-620	2000	MasterPacT NT/NW/MTZ
new Terasaki	Any	AH	1000 - 3000	MasterPacT NT/NW/MTZ
new Terasaki	Any	AT	630 - 3200	MasterPacT NT/NW/MTZ
new Unelec	Any	CN2-CN3	800 - 4000	MasterPacT NT/NW/MTZ
new Unelec	Any	CNP	1000 - 2500	MasterPacT NT/NW/MTZ
new Unelec	Any	SP	1000 - 2500	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DB	DB - 15 Three Position (in DB-25 cell)	225	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DB	DB - 25 Three Position	800	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DB	DB - 25 Single Position	800	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DB	DBL - 25 Three Position	800	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DB	DB - 50 Single Position	1600	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DB	DB - 50 Three Position	1600	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DSII	DSII - 308	800	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DSII	DSII - 508	800	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DSII	DSII - 608	800	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DSII	DSII - 516	1600	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DSII	DSII - 616	1600	MasterPacT NT/NW/MTZ
Westinghouse / Cutler Hammer / Eaton	DSII	DSII - 620	2000	MasterPacT NT/NW/MTZ

Discover the EcoFit™ Life Extension Advanced for Power product selector

Medium Voltage distribution



Discover our Services.

Medium Voltage distribution

Medium Voltage distribution retrofit

MV panels with MV CB or contactor or disconnector retrofit

5-15 kV MC switchgear / VAD2-3 (USA) B2
Cemafluor-C26.0 / CS B3
Epoclad / DHF & F B4
Fluair F100 - F200 / FG1 - FG2 ..... B5
Fluair F400C / FC4 ..... B6
Fluair F400G / FG4 ..... B7
HP / HP - W - TW - TM B8
K104 / K104 ..... B9
KRU / KRU 2-10 ..... B10
Metalclad switchgear / DST2 & 5 ..... B11
MCSet 1,2,3 up to 17.5 kV / EVOLIS B12
Motorstart P50D / C - CD B13
Motorstart P500D / C1 - CD1 ..... B14
Normabloc N13xx / HL B15
R / M - MC - IMC - E - AL - ALF - BAL - FAL - IFAL - TG B16
RSW / RSW B17
Siclad / MAG II B18
Solenarc DSE Metal-Clad switchgear / DSE B19
Venus / GI - GL B20
WBA / ECA - BAL - AL B21
WBB / ECA - BAL - AL B22
WBD / HVX-C B23
WK (A/B/C/D/E/F) / MC - AL - BAL - TG B24
YSF6 ..... B25

MV Cradle to Cradle

All breaker types Withdrawable CB with EasyPact EXE MC cassette B26
All breaker types Withdrawable CB with F400 cassette B27

Medium Voltage distribution manufactured as original

MV panels with MV CB or contactor or disconnector manufactured as original

Cemafluor-C26.2 / FPR B28
Fluair F100C / R400 - R400D B29
HMC1072 / HMC1072 ..... B30
HMC1172 / HMC1172 ..... B31
HWX / HWX B32
HWX / EvoPact HVX B33
HWX / HWX-EvoPact HVX B34
L-TRI 36kV B35
Normaclad PX12 - 24 / FPX B36
PIX SF6 - FPX B37
R / VA - VAA B38
VMX / VMX B39
WBA / VA - VAA B40
WBB / VA - VAA B41
WBD / VA - VAA B42
WK (A/B/C/D/E/F) / VA - VAA B43

MV panel manufactured as original

AHA panel B44
Fluair F100 - F200 panel B45
Normaclad PX12-24 panel B46
PIX - SF6 panel B47
VMX panel B48
WBA panel B49
WBB panel B50
WBD panel B51
WK panel B52

Circuit Breaker & Panel order form ... B54

SF6 to vacuum recommendations for motor applications B56
SF6 to vacuum recommendations for transformers applications B58

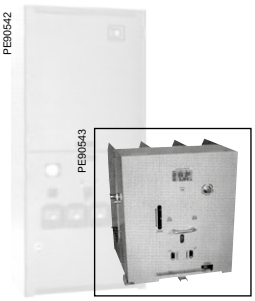
Medium Voltage distribution

5-15 kV MC switchgear/VAD2-3 with MAGNUM (avalaible for USA)

Original brand: Square D

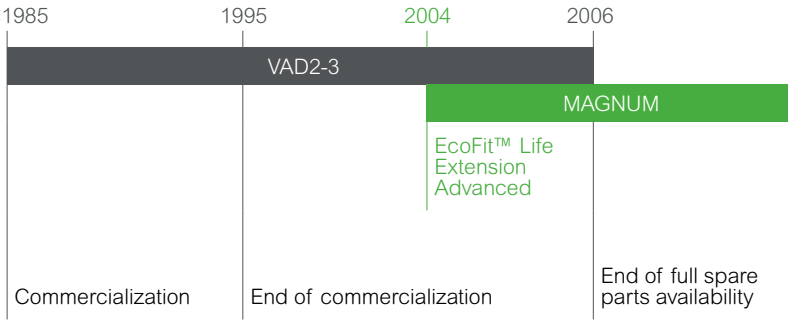
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

VAD2-3
Circuit Breaker



Magnum
Circuit Breaker





Main technical characteristics

	VAD2	VAD3	VAD2	VAD3
Rated current (Ir)	1200-3000 A			
Short circuit current (Isc)	29 kA	41 kA	18-28 kA	37 kA
Rated voltage Un (50/60 Hz)	5 kV		15 kV	

	Magnum 5SSB	Magnum 15SSB
Technology	Vacuum	Vacuum
Rated voltage Ur (kV)	5	15
Surge withstand voltage Up (kV)	60	95
Nominal frequency (Hz)	60	60

	Magnum 5SSB	Magnum 15SSB
Rated current Ir (A)	1200-3000	1200-3000
Short circuit current Isc (kA)	29-41	18-28
Switching sequence	O-0.3 s-CO-15 s-CO	
Opening time (ms)	60	60

Magnum CB main characteristics

Built with totally new components and tested to ANSI standards, Magnum circuit breakers correctly interface with the existing breaker compartment components and maintain safety interlocks inherent in the original equipment design.

- New circuit breakers are installed in existing switchgear.
- Original footprint is left intact, saving time and money.
- Installation expense is a fraction of new equipment costs.

(Less down time for installation + Enhanced equipment reliability).

- Manufactured with new components.
- Undergoes complete factory testing.
- Backed by our standard equipment warranty.
- New, easy-to-maintain operating mechanism.
- No bulky arc chutes to handle and maintain.
- Reduced need for difficult to obtain spare parts.

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



Software
Power Monitoring Expert



SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

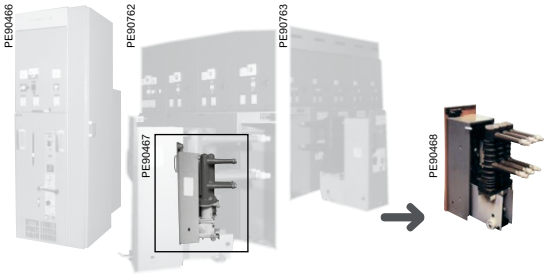
Cemafluor-C26.0/CS with FPR and Cemafluor-C26.1/CX with FPR

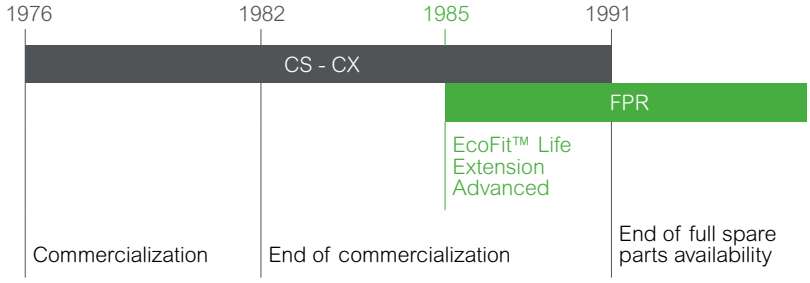
Original brand: CEM, Delle Alsthom, GEC-Alsthom

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

CS
Circuit Breaker

FPR
Circuit Breaker





Main technical characteristics

	CS-CX
Rated current (Ir)	400-1250 A
Short circuit current (Isc)	14.5 kA
Rated voltage Un (50/60 Hz)	24 kV

	FPR
Technology	SF6
Rated voltage Ur (kV)	24
Surge withstand voltage Up (kV)	125
Nominal frequency (Hz)	50-60
Rated current Ir (A)	400-1250
Short circuit current Isc (kA)	12.5
Short circuit duration Tk (s)	1

	FPR
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO
Closing time (ms)	50
Opening time (ms)	80
Number of switching operations	10000
Service temperature (°C)	-25/+40

Make the most of your equipment with available add-ons

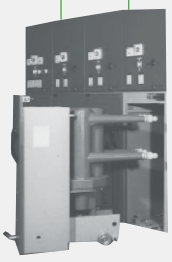


Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION

SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1



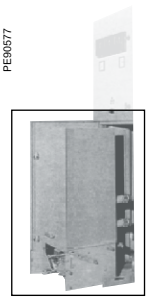
Medium Voltage distribution

Epoclad / DHF & F with EvoPact LF1 - EvoPact LF2 - EvoPact LF3 - EvoPact SF1

Original brand: Nuova Magrini Galileo, VEI

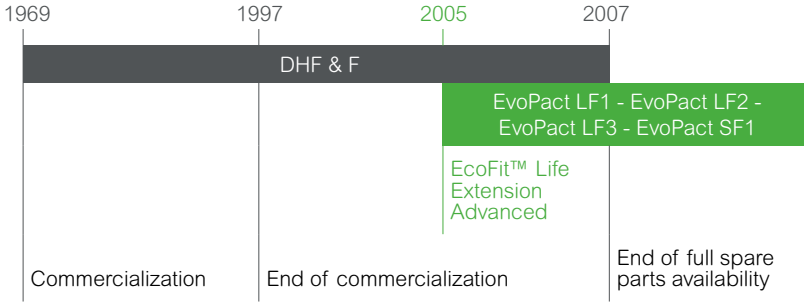
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

DHF-F
Circuit Breaker



EvoPact LF1 -
EvoPact LF2 -
EvoPact LF3 -
EvoPact SF1
Circuit Breaker





Main technical characteristics

	DHF & F	DHF & F	DHF & F	DHF & F	DHF & F	DHF & F	DHF & F	DHF & F
	6DHF 6DHF/N 250-500	7F/N 250-350	10DHF 250-750	7F 350-750	15DHF 350-850	12F 12F/N 350-750	24DHF 350-500	20DHF 350-750 24F 500-750
Rated current (Ir)	630-3150 A	630-3150 A	630-3150 A	630-3150 A	630-1250 A	630-3150 A	630-3150 A	630-1250 A
Short circuit current (Isc)	20-48 kA	29-34 kA	12-43 kA	18-48 kA	13.5-32.5 kA	12.5-48 kA	9.2-14.5 kA	8-18 kA /20DHF 12.5-18 kA /24F
Rated voltage Un (50/60 Hz)	6 kV	7.2 kV	10 kV	12 kV	15 kV	17 kV	20 kV	24 kV

	EvoPact LF1	EvoPact LF2	EvoPact LF3*	EvoPact SF1
Technology	SF6	SF6	SF6	SF6
Rated voltage Ur (kV)	7.2	7.2-12	17.5	24
Surge withstand voltage Up (kV)	60	60-75	95	125
Nominal frequency (Hz)	50-60	50-60	50-60	50-60
Rated current Ir (A)	630-1250	Up to 2000	630-3150	630-1250
Short circuit current Isc (kA)	31.5	40-50	40	25
Short circuit duration Tk (s)	3	3	3	3

* Ur: 7.2 / 12 kV, A: 3150, kA: 50

	EvoPact LF1	EvoPact LF2	EvoPact LF3*	EvoPact SF1
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO			
Closing time (ms)	< 72	< 72	< 72	< 65
Opening time (ms)	< 54	< 54	< 54	< 50
Number of switching operations	10000	10000	10000	10000
Service temperature (°C)	-25/+40	-25/+40	-25/+40	-25/+40

Make the most of your equipment with available add-ons



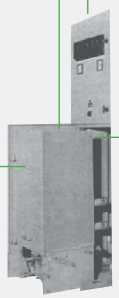
Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



SUSTAINABILITY

EcoFit™ Recover
Oil, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

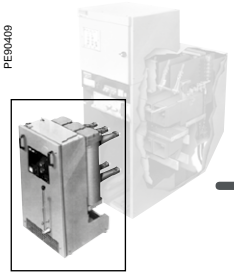
Medium Voltage distribution

Fluair F100-F200/FG1-FG2 with EasyPact EXE-EvoPact LF2-EvoPact LF3

Original brand: Merlin Gerin

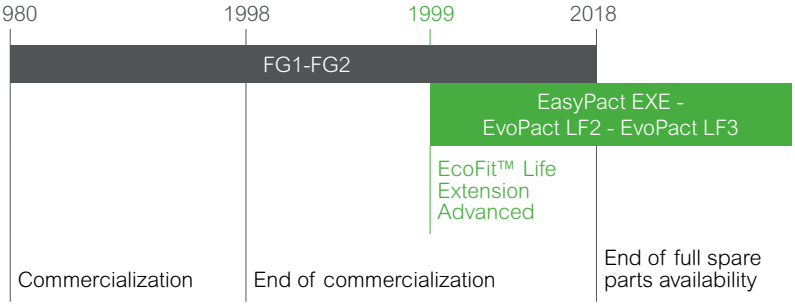
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

FG1 - FG2
Circuit Breaker



EasyPact EXE - EvoPact LF2 - EvoPact LF3
Circuit Breaker





Main technical characteristics

	FG1 - FG2		
Rated current (Ir)	630-3150 A	630-3150 A	630-3150 A
Short circuit current (Isc)	25-50 kA	25-50 kA	25-31.5 kA
Rated voltage Un (50/60 Hz)	7.2 kV	12 kV	17.5 kV

	EasyPact EXE	EvoPact LF2	EvoPact LF3
Technology	Vacuum	SF6	SF6
Rated voltage Ur (kV)	Up to 17.5	7.2-12	17.5
Surge withstand voltage Up (kV)	Up to 95	60-75	95
Nominal frequency (Hz)	50-60	50-60	50-60
Rated current Ir (A)	630-2500	630-2000	630-3150
Short circuit current Isc (kA)	31.5 (EasyPact EXE)	25-50	31.5-40
Short circuit duration Tk (s)	3	3	3

	EasyPact EXE	EvoPact LF2	EvoPact LF3
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO		
Closing time (ms)	< 65	< 72	< 72
Opening time (ms)	< 50	< 54	< 54
Number of switching operations	2000 (Isc = 40 kA/ M1 class)-10000	10000	10000
Service temperature (°C)	-25/+40	-25/+40	-25/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
EcoFit™ Safety Remote Racking
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

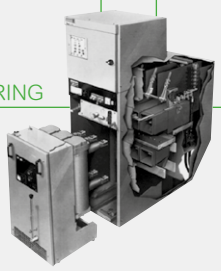
MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

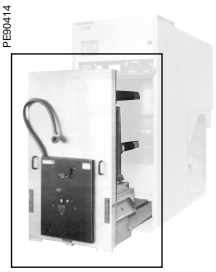
TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution
Fluair F400C / FC4 with EvoPact SF2
Original brand: Merlin Gerin

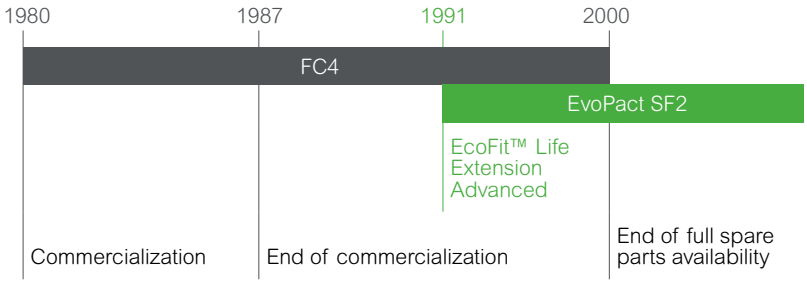
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

FC4
Circuit Breaker



EvoPact SF2
Circuit Breaker





Main technical characteristics

	FC4
Rated current (Ir)	1250 - 2500 A
Short circuit current (Isc)	31.5 - 40 kA
Rated voltage Un (50/60 Hz)	36 kV

	EvoPact SF2
Technology	SF6
Rated voltage Ur (kV)	36
Surge withstand voltage Up (kV)	170
Nominal frequency (Hz)	50 - 60
Rated current Ir (A)	1250 - 2500
Short circuit current Isc (kA)	31.5 - 40
Short circuit duration Tk (s)	3

	EvoPact SF2
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO
Closing time (ms)	< 65
Opening time (ms)	< 50
Number of switching operations	10 000
Service temperature (°C)	-25 / + 40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION

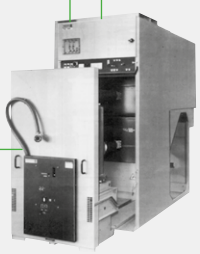
SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



Medium Voltage distribution

Fluair F400G/FG4 with EvoPact SF1-EvoPact SF2

Original brand: Merlin Gerin

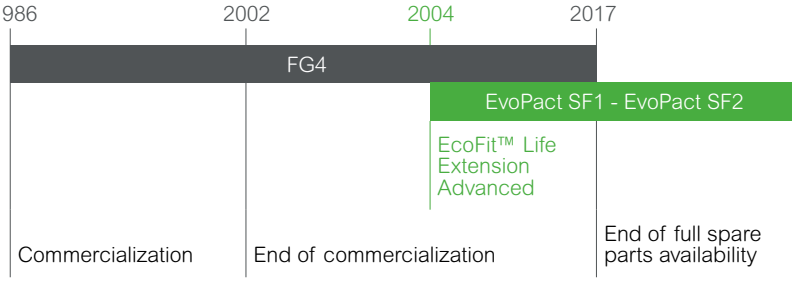
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

FG4
Circuit Breaker



EvoPact SF1 -
EvoPact SF2
Circuit Breaker





Main technical characteristics

	FG4	
Rated current (Ir)	1250-2500 A	1250-2500 A
Short circuit current (Isc)	40 kA	25-40 kA
Rated voltage Un (50/60 Hz)	24 kV	36 kV

	EvoPact SF1 - EvoPact SF2
Technology	SF6
Rated voltage Ur (kV)	24-36
Surge withstand voltage Up (kV)	125-170
Nominal frequency (Hz)	50-60
Rated current Ir (A)	1250-2500
Short circuit current Isc (kA)	25-40
Short circuit duration Tk (s)	3

	EvoPact SF1 - EvoPact SF2
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO
Closing time (ms)	< 65
Opening time (ms)	< 50
Number of switching operations	10000
Service temperature (°C)	-25/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION

SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1



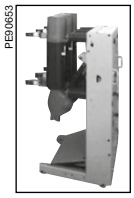
Medium Voltage distribution

HP/HP-W-TW-TM with EvoPact HVX-VA

Original brand: Concordia Sprecher, Sprecher & Schuh, GEC-Alsthom, Alstom, AREVA

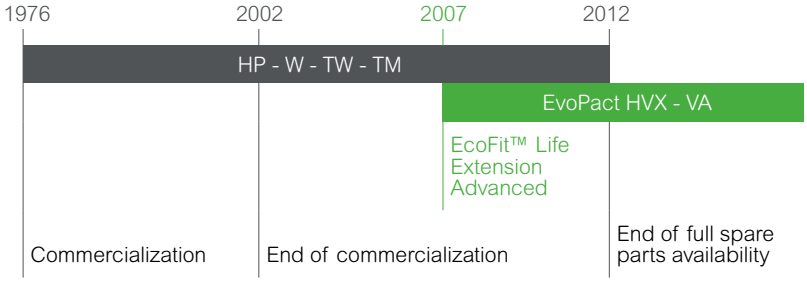
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

HP - W - TW - TM
Circuit Breaker



EvoPact HVX - VA
Circuit Breaker





Main technical characteristics

	HP-W-TW-TM
Rated current (Ir)	600-800-1250-2500-3150 A
Short circuit current (Isc)	8.4-12.5-21.7-31.5-40 kA
Rated voltage Un (50/60 Hz)	7.2-12-24 kV

	EvoPact HVX	VA
Technology	Vacuum	Vacuum
Rated voltage Ur (kV)	6-24	12-24
Surge withstand voltage Up (kV)	75-125	75-125
Nominal frequency (Hz)	50-60	50-60
Rated current Ir (A)	630-3150	630-3550
Short circuit current Isc (kA)	16-40	16-50
Short circuit duration Tk (s)	3	3

	EvoPact HVX	VA
Switching sequence	O-0.3 s-CO-3 min-CO	
Closing time (ms)	45-63	20
Opening time (ms)	35-53	20-50
Number of switching operations	10000	10000
Service temperature (°C)	-5/+40	-5/+40

Make the most of your equipment with available add-ons



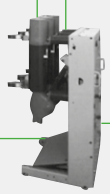
Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



SUSTAINABILITY

EcoFit™ Recover
Oil, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

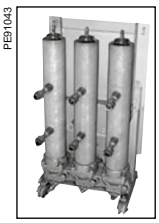
Medium Voltage distribution

K104/K104 with EasyPact EXE-EvoPact LF

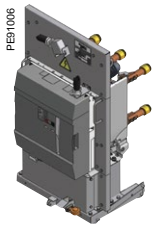
Original brand: GOST standard

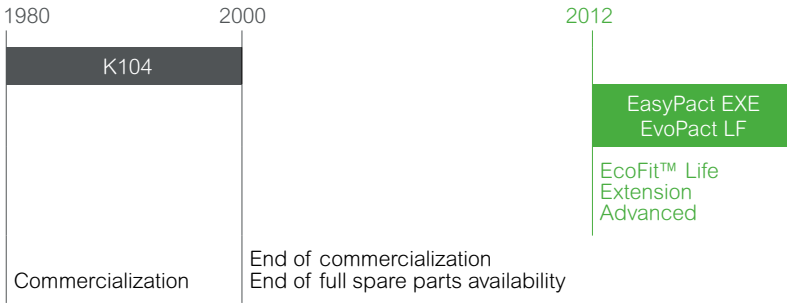
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

K104
Circuit Breaker



EasyPact EXE -
EvoPact LF
Circuit Breaker





Main technical characteristics

	K104
Rated current (Ir)	630-1000-1600 A
Short circuit current (Isc)	25-31.5 kA
Rated voltage Un (50/60 Hz)	6-10 kV

	EasyPact EXE	EvoPact LF
Technology	Vacuum	SF6
Rated voltage Ur (kV)	6-17.5	6-10
Surge withstand voltage Up (kV)	60-75	60-75
Nominal frequency (Hz)	50	50
Rated current Ir (A)	630-1250-1600	630-1250-2000
Short circuit current Isc (kA)	25-31.5	25-31.5
Short circuit duration Tk (s)	3	3

	EasyPact EXE	EvoPact LF
Switching sequence	O-0.3 c-C/O-15 c-C/O 3 min	
Closing time (ms)	< 65	< 65
Opening time (ms)	< 50	< 50
Number of switching operations	20 000	10 000
Service temperature (°C)	-25/+40	-25/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



SUSTAINABILITY

EcoFit™ Recover
Oil, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

KRU / KRU 2-10 with EasyPact EXE - Evolis - EvoPact LF1

Original brand: GOST standard

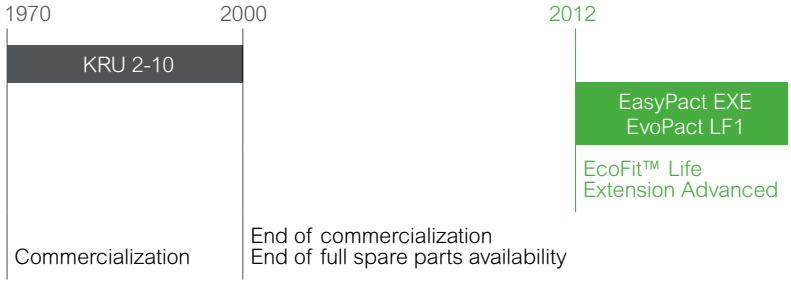
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

KRU 2-10
Circuit Breaker



EasyPact EXE -
EvoPact LF1 Circuit
Breaker





Main technical characteristics

	KRU 2-10
Rated current (Ir)	630 - 1000 - 1600 A
Short circuit current (Isc)	25 - 31.5 kA
Rated voltage Un (50/60 Hz)	6 - 10 kV

	EasyPact EXE	EvoPact LF1
Technology	Vacuum	SF6
Rated voltage Ur (kV)	12	6 - 17.5
Surge withstand voltage Up (kV)	75	60 - 75
Nominal frequency (Hz)	50-60	50
Rated current Ir (A)	Up to 2300	630 - 1250 - 2000
Short circuit current Isc (kA)	31.5	40 - 50 (6 kV) - 40 (10 kV)
Short circuit duration Tk (s)	3	3

	EasyPact EXE	EvoPact LF1
Switching sequence	O-0.3 c-C/O-15 c-C/O 3 min	
Closing time (ms)	50	< 65
Opening time (ms)		< 50
Number of switching operations	10 000	10 000
Service temperature (°C)		-25 / + 40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

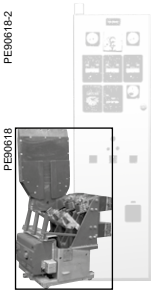
Medium Voltage distribution

Metalclad switchgear / DST2 & 5 with DST2V & 5V

Original brand: Federal Pioneer

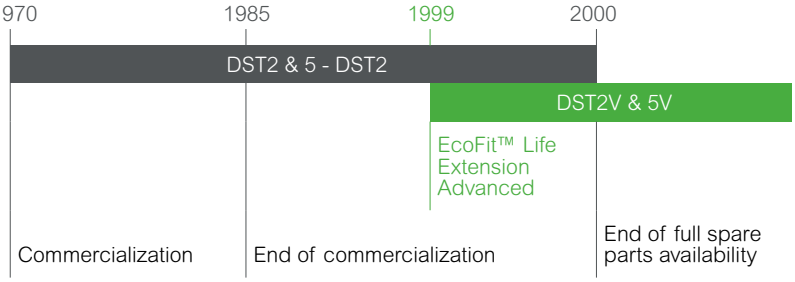
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

DST2 & 5
Circuit Breaker



DST2V & 5V
Circuit Breaker





Main technical characteristics

	DST2 & 5	DST2
Rated current (Ir)	1200 - 3000 A	1200 - 3000 A
Short circuit current (Isc)	250 - 350 MVA	500 - 750 MVA
Rated voltage Un (50/60 Hz)	5 kV	15 kV

	DST2V	DST5V
Technology	Vacuum	Vacuum
Rated voltage Ur (kV)	5	15
Surge withstand voltage Up (kV)	60	95

	DST2V	DST5V
Rated current Ir (A)	1200 - 3000	1200 - 3000
3-phase rating (MVA)	350	500 - 750

Make the most of your equipment with available add-ons



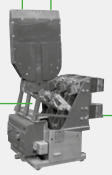
Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Additional offer



Magnum circuit breakers correctly interface with the existing breaker compartment components and maintain safety interlocks inherent in the original equipment design.
- New circuit breakers are installed in existing switchgear.
- Original footprint is left intact, saving time and money.
- Installation expense is a fraction of new equipment costs.
- Less down time for installation.
- Enhanced equipment reliability.
- Manufactured with new components.
- Undergoes complete factory testing.
- Backed by our standard equipment warranty.
- New, easy-to-maintain operating mechanism.
- No bulky arc chutes to handle and maintain.
- Reduced need for difficult to obtain spare parts.

Optional capabilities
- Increased fault current interruption rating.
- Relay upgrade, improved accuracy and repeatability, and performance.
- Power metering, monitoring and communication.
- Ground and test devices available for various types of switchgear.

Closed Door Electric Racking Mechanism
- Arc flash hazard reduced with remote operation.
- Maintenance shutdown time is significantly reduced.
- No storage space is required for the electrical racking system.
- Require just a common 120 V AC, 15 A outlet for power up.

Medium Voltage distribution

MCSet 1,2,3 up to 17.5 kV / EVOLIS with EasyPact EXE

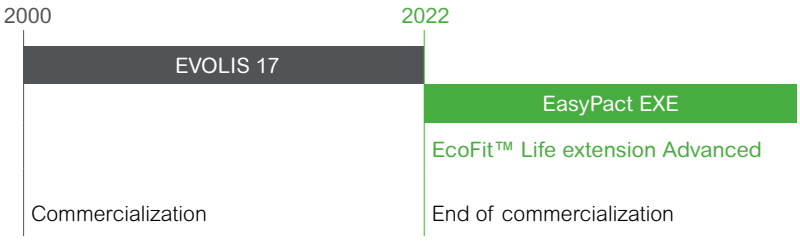
Original brand: Merlin Gerin, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extented life time

EVOLIS17
Circuit Breaker

EasyPact-EXE
Circuit Breaker





Main technical characteristics

	EVOLIS 17
Rated current (Ir)	630 A – 2500 A
Short circuit current (Isc)	31.5 kA-3s
Rated voltage Un (50/60 Hz)	17.5 kV

	EasyPact EXE
Technology	Vacuum
Rated voltage Ur (kV)	Up to 17.5
Surge withstand voltage Up (kV)	Up to 95
Nominal frequency (Hz)	50-60
Rated current Ir (A)	630-2500
Short circuit current Isc (kA)	31.5
Short circuit duration Tk (s)	3
Versions available	12kV / 1250A / 31.5kA - 570mm - 145mm Ph to Ph 17.5kV / 1250A / 31.5kA - 700mm - 185mm Ph to Ph 17.5kV / 2500A / 31.5kA - 900mm - 240mm Ph to Ph

	EasyPact EXE
Switching sequence	O-3mn-CO-3mn-CO O-0.3s-CO-3mn-CO O-0.3s-CO-15s-CO
Closing time (ms)	< 65
Opening time (ms)	< 50
Number of switching operations	10000
Service temperature (°C)	-25/+40

Make the most of your equipment with available add-ons



Protection Relays
Easergy Px, Sepam, MiCom
See page G1

MONITORING

SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1



EcoFit™ Life Extension
Essential for Power
T°, Humidity, Arc Flash
See page F1

DIGITAL



Medium Voltage distribution

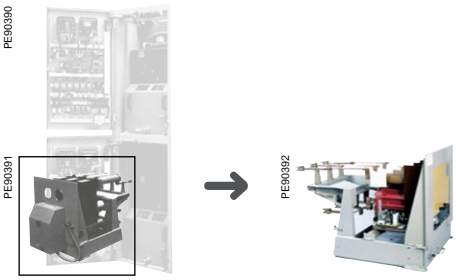
Motorstart P50D/C-CD with CTV1-TeSys R400-TeSys R400D

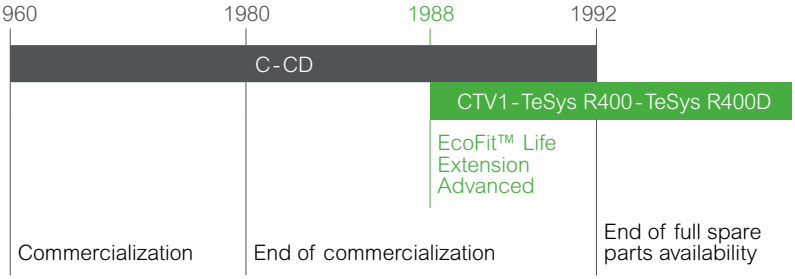
Original brand: Merlin Gerin

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

C-CD
Contactor

CTV1-R400-R400D
Contactor





Main technical characteristics

	C-CD
Rated current (Ir)	80-200 A
Short circuit current (Isc)	50 kA (with fuses)
Rated voltage Un (50/60 Hz)	7.2 kV

	CTV1	TeSys R400	TeSys R400D
Technology	Vacuum	SF6	SF6
Rated voltage Ur (kV)	7.2	7.2	7.2
Surge withstand voltage Up (kV)	60	60	60
Nominal frequency (Hz)	50-60	50-60	50-60
Rated current Ir (A)	80-250	80-250	80-250
Short circuit current Isc (kA)	50 (with fuses)	50 (with fuses)	50 (with fuses)
Short circuit duration Tk (s)	3	3	3

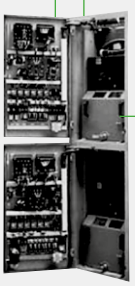
	CTV1	TeSys R400	TeSys R400D
Switching sequence			
Closing time (ms)	60-80	75-155	75-155
Opening time (ms)	20-30	20-50	20-50
Number of switching operations	200 000	300 000	100 000
Service temperature (°C)	-25/+40	-25/+40	-25/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

Motorstart P500D/C1-CD1 with CTV1-TeSys R400-TeSys R400D

Original brand: Merlin Gerin

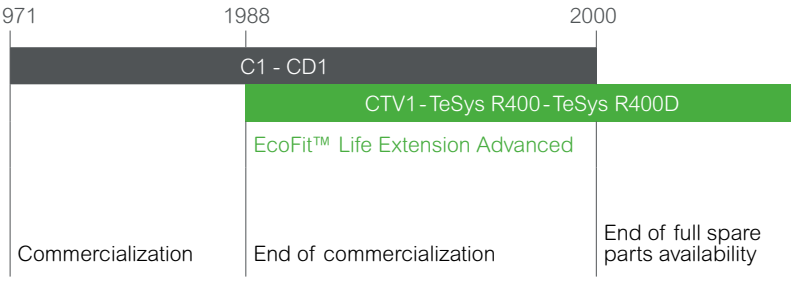
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

C1-CD1
Contactor



CTV1-TeSys R400-
TeSys R400D
Contactor





Main technical characteristics

	C1-CD1
Rated current (Ir)	80-250 A
Short circuit current (Isc)	50 kA (with fuses)
Rated voltage Un (50/60 Hz)	7.2 kV

	CTV1	TeSys R400	TeSys R400D
Technology	Vacuum	SF6	SF6
Rated voltage Ur (kV)	7.2	7.2	7.2
Surge withstand voltage Up (kV)	60	60	60
Nominal frequency (Hz)	50-60	50-60	50-60
Rated current Ir (A)	80-250	80-250	80-250
Short circuit current Isc (kA)	50 (with fuses)	50 (with fuses)	50 (with fuses)
Short circuit duration Tk (s)	3	3	3

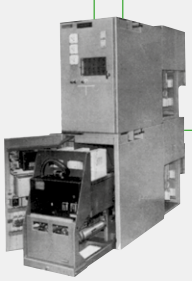
	CTV1	TeSys R400	TeSys R400D
Switching sequence			
Closing time (ms)	60-80	75-155	75-155
Opening time (ms)	20-30	20-50	20-50
Number of switching operations	200 000	300 000	100 000
Service temperature (°C)	-25/+40	-25/+40	-25/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

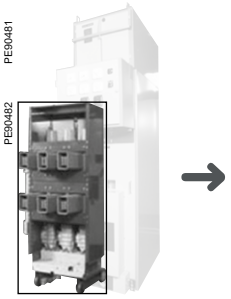
Normabloc N13xx/HL with EvoPact HVX-FPX

Original brand: Delle

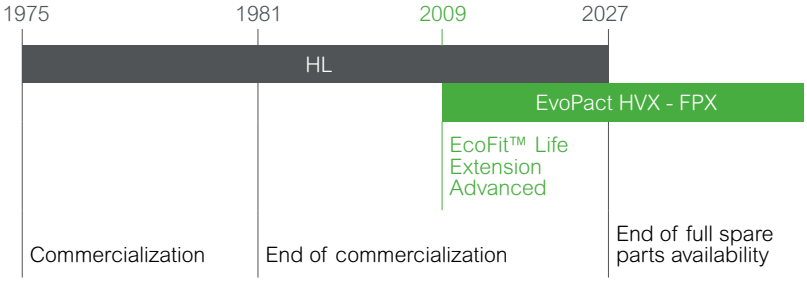
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

HL
Circuit Breaker

EvoPact HVX - FPX
Circuit Breaker







Main technical characteristics

	HL
Rated current (Ir)	630-1250 A
Short circuit current (Isc)	25 & 40 kA
Rated voltage Un (50/60 Hz)	17.5 kV

	EvoPact HVX	FPX
Technology	Vacuum	SF6
Rated voltage Ur (kV)	17.5	17.5
Surge withstand voltage Up (kV)	95	95
Nominal frequency (Hz)	50-60	50-60
Rated current Ir (A)	630-1250	630-1250
Short circuit current Isc (kA)	16-40	12.5-40
Short circuit duration Tk (s)	3	3

	EvoPact HVX	FPX
Switching sequence	O-3min-CO-3min-CO O-0.3s-CO-3min-CO O-15s-CO O-0.3s-CO-15s-CO	O-3min-CO-3min-CO O-0.3s-CO-3min-CO O-0.3s-CO-15s-CO
Closing time (ms)	35-53	50
Opening time (ms)	45-63	50
Number of switching operations	10000	10000
Service temperature (°C)	-25/+40	-25/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



SUSTAINABILITY

EcoFit™ Recover
Oil, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

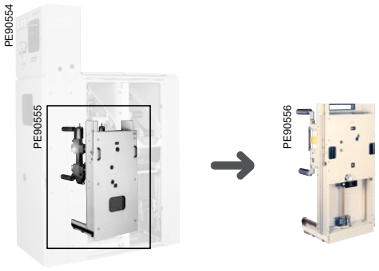
Medium Voltage distribution

R/M-MC-IMC-E-AL-ALF-BAL-FAL-IFAL-TG with VA-VAA-Contactor

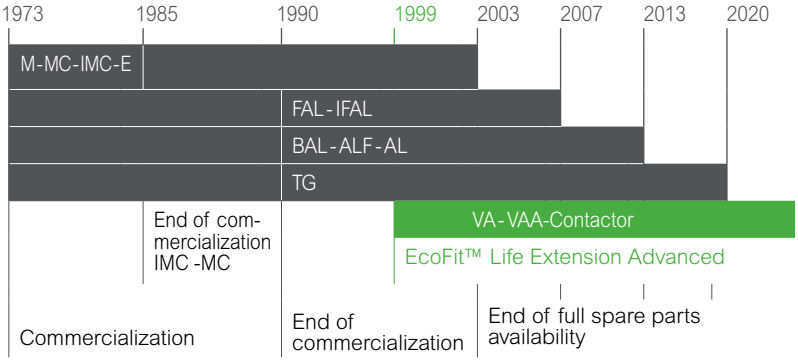
Original brand: AEG, Alstom

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

M-MC-IMC-E-AL-ALF-BAL-FAL-IFAL-TG
Switch device



VA-VAA-Contactor



Main technical characteristics

	M-MC-IMC-E-AL-ALF-BAL-FAL-IFAL-TG
Rated current (Ir)	1250-4000 A
Short circuit current (Isc)	16-50 kA
Rated voltage Un (50/60 Hz)	12-36 kV

	VA-VAA-Contactor
Technology	Vacuum
Rated voltage Ur (kV)	12-24
Surge withstand voltage Up (kV)	75-125
Nominal frequency (Hz)	50-60
Rated current Ir (A)	630-3550
Short circuit current Isc (kA)	16-50
Short circuit duration Tk (s)	3

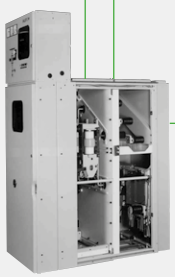
	VA-VAA-Contactor
Switching sequence	O-0.3 s-CO-3 min-CO
Closing time (ms)	20
Opening time (ms)	20-50
Number of switching operations	10 000
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom
Arc Flash
Remote racking
See page G1

PROTECTION



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

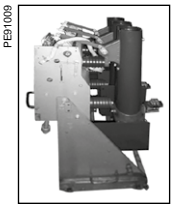
Medium Voltage distribution

RSW / RSW with EasyPact EXE - EvoPact LF

Original brand: GOST standard

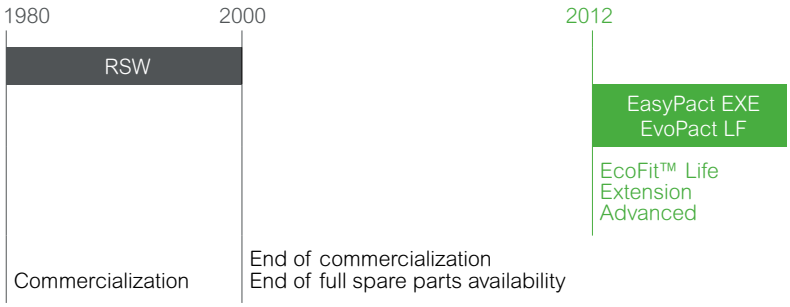
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

RSW
Circuit Breaker



EasyPact
EXE - EvoPact LF
Circuit Breaker





Main technical characteristics

	RSW
Rated current (Ir)	630 - 1250 A
Short circuit current (Isc)	25 - 31.5 kA
Rated voltage Un (50/60 Hz)	6 - 10 kV

	EasyPact EXE	EvoPact LF
Technology	Vacuum	SF6
Rated voltage Ur (kV)	6 - 10	6 - 17.5
Surge withstand voltage Up (kV)	60 - 75	60 - 75
Nominal frequency (Hz)	50	50
Rated current Ir (A)	630 - 1250	630 - 1250
Short circuit current Isc (kA)	25 - 31.5	25 - 31.5
Short circuit duration Tk (s)	3	3

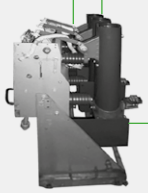
	EasyPact EXE	EvoPact LF
Switching sequence	O-0.3 c-C/O-15 c-C/O 3 min	O-0.3 c-C/O-15 c-C/O 3 min
Closing time (ms)	< 65	< 65
Opening time (ms)	< 50	< 50
Number of switching operations	20 000	10 000
Service temperature (°C)	-25/+40	-25/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

Siclad / MAG II with EvoPact LF1 - EvoPact LF2

Original brand: Ansaldo, VEI

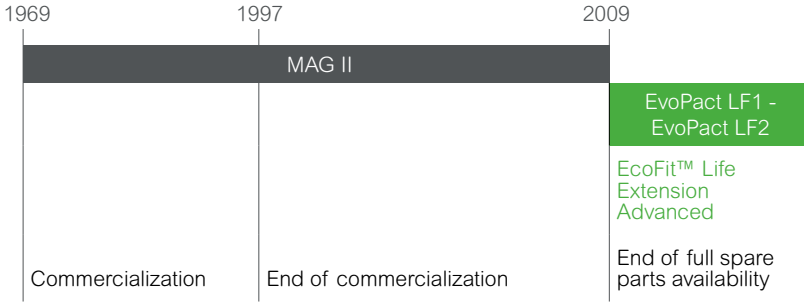
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

MAG II
Circuit Breaker



EvoPact LF1 -
EvoPact LF2
Circuit Breaker





Main technical characteristics

	MAG II - 6 - 250/400	MAG II - 10 - 500	MAG II - 15 - 6 - 300/350
Rated current (Ir)	630 - 1250 - 2000 A	630 - 1250 - 2000 A	630 - 1250 - 2000 A
Short circuit current (Isc)	20 - 48 kA	20 - 28 kA	12 - 30 kA
Rated voltage Un (50/60 Hz)	6 kV	10 kV	15 kV

	EvoPact LF1	EvoPact LF2*
Technology	SF6	SF6
Rated voltage Ur (kV)	7.2 - 12	7.2 - 12 - 17.5
Surge withstand voltage Up (kV)	60 - 75	60 - 75 - 95
Nominal frequency (Hz)	50 - 60	50 - 60
Rated current Ir (A)	630 - 1250	2000
Short circuit current Isc (kA)	31.5	40
Short circuit duration Tk (s)	3	3

* For Siclad panels 630 mm & 850 mm wide

	EvoPact LF1	EvoPact LF2*
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO	
Closing time (ms)	< 72	< 72
Opening time (ms)	< 54	< 54
Number of switching operations	10 000	10 000
Service temperature (°C)	-25 / + 40	-25 / + 40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION

SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1



Medium Voltage distribution

Solenarc DSE Metal-Clad switchgear / DSE with Magnum CB (avalaible for USA)

Original brand: Square D

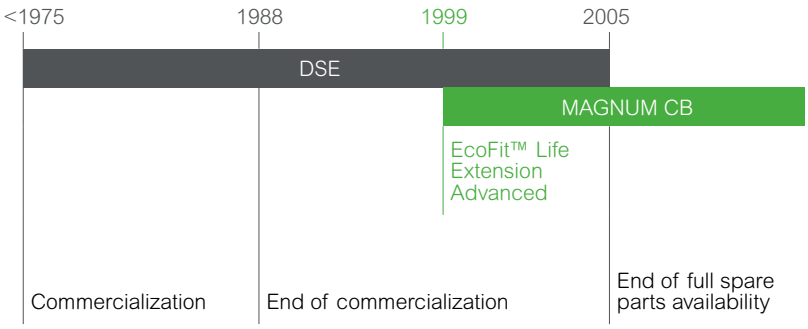
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

DSE
Circuit Breaker



Magnum
Circuit Breaker





Main technical characteristics

	DSE	
Rated current (Ir)	1200 - 3000 A	1200 - 3000 A
Short circuit current (Isc)	250 MVA	250 - 1000 MVA
Rated voltage Un (50/60 Hz)	5 kV	15 kV

	5MGSB	15MGSB
Technology	Vacuum	Vacuum
Rated voltage Ur (kV)	5	15
Surge withstand voltage Up (kV)	60	95

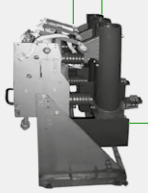
	5MGSB	15MGSB
Rated current Ir (A)	1200	1200 - 3000
3-phase rating (MVA)	250	250 - 1000
Interruping time (ms)	100	60

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

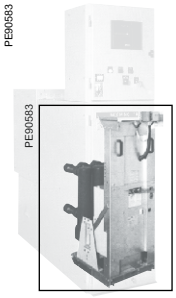
Medium Voltage distribution

Venus / GI - GL with EvoPact LF1 - EvoPact LF3

Original brand: Nuova Magrini Galileo, VEI

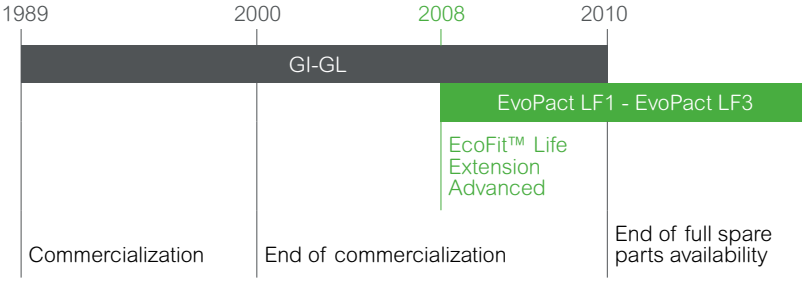
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

GI-GL
Circuit Breaker



EvoPact LF1 -
EvoPact LF3
Circuit Breaker





Main technical characteristics

	GI		GL			
Rated current (Ir)	630 - 1250 A	630 - 1250 A	1600 - 3150 A	1600 - 3150 A	1600 - 3150 A	1600 - 3150 A
Short circuit current (Isc)	12.5 - 31.5 kA	12 - 25 kA	50 kA	20 - 40 kA	20 - 40 kA	20 - 31.5 kA
Rated voltage Un (50/60 Hz)	7 - 12 kV	17 - 24 - 36 kV	7 kV	12 kV	24 kV	36 kV

	EvoPact LF1	EvoPact LF3
Technology	SF6	SF6
Panel width (mm)	600	900
Rated voltage Ur (kV)	12	17.5
Surge withstand voltage Up (kV)	75	125
Nominal frequency (Hz)	50 - 60	50 - 60
Rated current Ir (A)	630 - 1250	1250 - 1600
Short circuit current Isc (kA)	31.5	50
Short circuit duration Tk (s)	3	3

	EvoPact LF1	EvoPact LF3
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO	
Closing time (ms)	< 72	< 72
Opening time (ms)	< 54	< 54
Number of switching operations	10 000	10 000
Service temperature (°C)	-25 / + 40	-25 / + 40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION

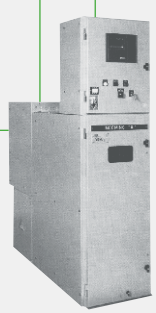
SUSTAINABILITY

EcoFit™ Recover
Oil, raw material recovery
See page J1



EcoFit™ Life Extension Essential with EvoPact LF circuit breaker
T°, Humidity, CB health status
See page F1

MONITORING





Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert

Medium Voltage distribution

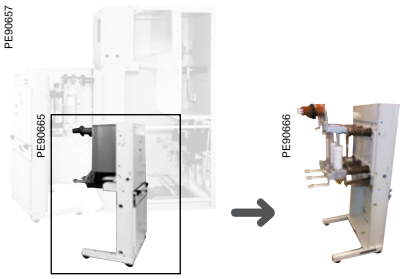
WBA/ECA-BAL-AL with VA-VAA-Contactor

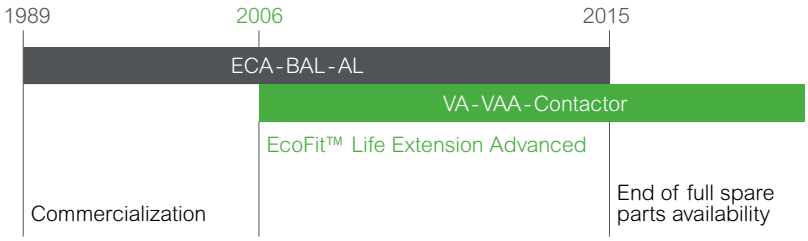
Original brand: AEG, Alstom, AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

ECA-BAL-AL
Circuit Breaker

VA-VAA
Circuit Breaker





Main technical characteristics

	BAL-AL	ECA
Rated current (Ir)	250 A	630-2500 A
Short circuit current (Isc)	20 kA	20-50 kA
Rated voltage Un (50/60 Hz)	3.6-12 kV	12-24 kV

	VA-VAA-Contactor
Technology	Vacuum
Rated voltage Ur (kV)	12-24
Surge withstand voltage Up (kV)	75-125
Nominal frequency (Hz)	50-60
Rated current Ir (A)	600-2500
Short circuit current Isc (kA)	25-31.5
Short circuit duration Tk (s)	3

	VA-VAA-Contactor
Switching sequence	O-0.3 s-CO-3 min-CO
Closing time (ms)	20
Opening time (ms)	20-50
Number of switching operations	10 000
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash Remote racking
See page G1

PROTECTION



EcoFit™ Life Extension Essential with EvoPact LF circuit breaker
T°, Humidity, CB health status
See page F1

MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert



SUSTAINABILITY

EcoFit™ Recover
Oil, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

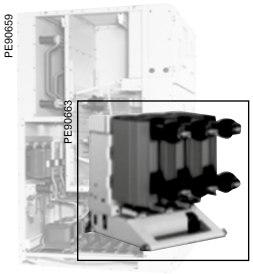
Medium Voltage distribution

WBB/ECA-BAL-AL with VA-VAA-Contactor

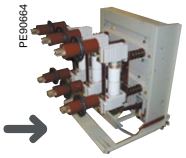
Original brand: AEG, Alstom, AREVA

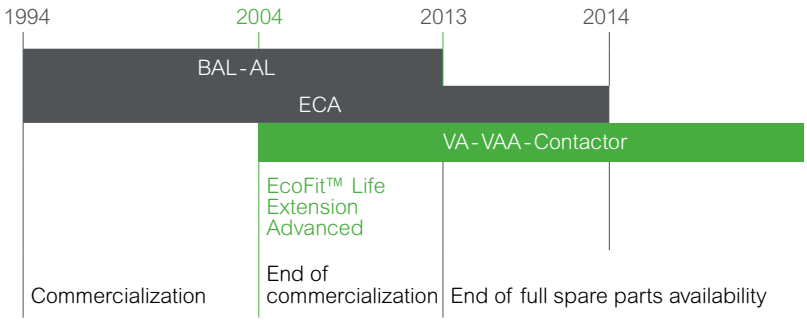
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

ECA-BAL-AL
Circuit Breaker



VA-VAA
Circuit Breaker





Main technical characteristics

	BAL-AL	ECA
Rated current (Ir)	250-630 A	630 - 2500 A
Short circuit current (Isc)	20 kA	20 - 50 kA
Rated voltage Un (50/60 Hz)	3.6 - 12 kV	12 kV

	VA-VAA-Contactor
Technology	Vacuum
Rated voltage Ur (kV)	12
Surge withstand voltage Up (kV)	75 - 95
Nominal frequency (Hz)	50 - 60
Rated current Ir (A)	630 - 2500
Short circuit current Isc (kA)	25 - 31.5
Short circuit duration Tk (s)	3

	VA-VAA-Contactor
Switching sequence	O-0.3 s-CO-3 min-CO
Closing time (ms)	20
Opening time (ms)	20-50
Number of switching operations	10000
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
Remote racking
See page G1

PROTECTION



EcoFit™ Life Extension Essential with EvoPact LF circuit breaker
T°, Humidity, CB health status
See page F1

MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert



SUSTAINABILITY

EcoFit™ Recover
Oil, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

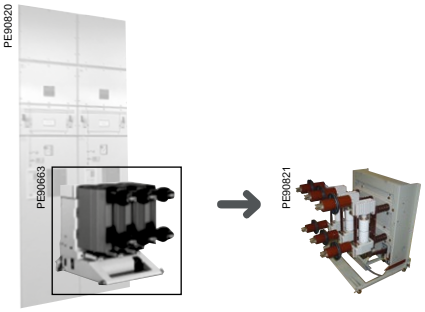
WBD / HVX-C with VA-VAA

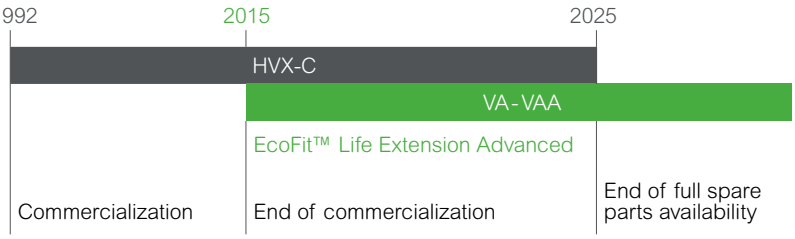
Original brand: AEG, Alstom, AREVA, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

HVX-C
Circuit Breaker

VA-VAA
Circuit Breaker





Main technical characteristics

	HVX-C
Rated current (Ir)	630-2500 A
Short circuit current (Isc)	25-31.5 kA
Rated voltage Un (50/60 Hz)	12 kV

	VA-VAA
Technology	Vacuum
Rated voltage Ur (kV)	12
Surge withstand voltage Up (kV)	80
Nominal frequency (Hz)	50-60
Rated current Ir (A)	630-3150
Short circuit current Isc (kA)	25-31.5
Short circuit duration Tk (s)	3

	VA-VAA
Switching sequence	O-0.3 s-CO-3 min-CO
Closing time (ms)	20
Opening time (ms)	20-50
Number of switching operations	10 000
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
Remote racking
See page G1

PROTECTION

SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1



Medium Voltage distribution

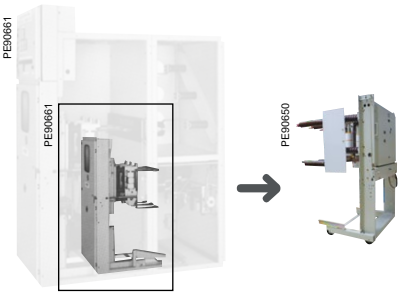
WK(A/B/C/D/E/F)/MC-AL-BAL-TG with VA-VAA-Contactor-LTRI

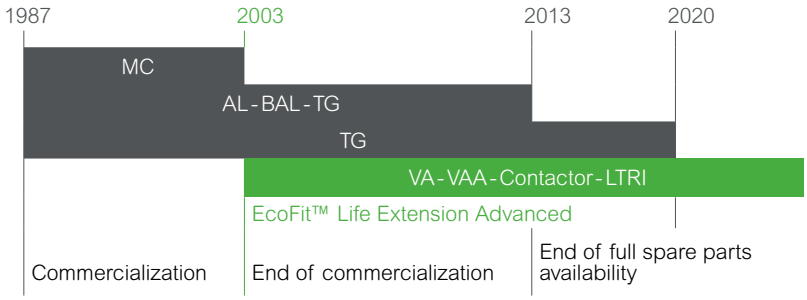
Original brand: AEG

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

MC-AL-BAL-TG
Circuit Breaker

VA-VAA-LTRI-FPX-
Contactor





Main technical characteristics

	MC-AL-BAL-TG
Rated current (Ir)	630-3150 A
Short circuit current (Isc)	31.5-50 kA
Rated voltage Un (50/60 Hz)	Up to 36 kV

	VA-VAA-Contactor-(LTRI)
Technology	Vacuum
Rated voltage Ur (kV)	3.6-12-24-36
Surge withstand voltage Up (kV)	60-110
Nominal frequency (Hz)	50-60
Rated current Ir (A)	400-4000
Short circuit current Isc (kA)	10-50
Short circuit duration Tk (s)	3

	VA-VAA-Contactor-(LTRI)
Switching sequence	O-0.3 s-CO-3 min-CO
Closing time (ms)	20
Opening time (ms)	20-50
Number of switching operations	10 000
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
Remote racking
See page G1

PROTECTION



EcoFit™ Life Extension Essential with EvoPact LF circuit breaker
T°, Humidity, CB health status
See page F1

MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert



SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1

TECHNOLOGY

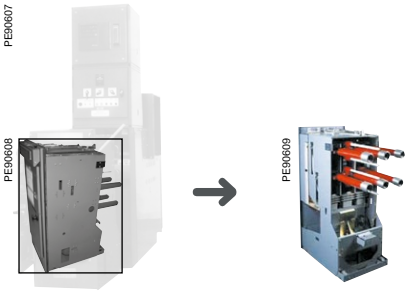
Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

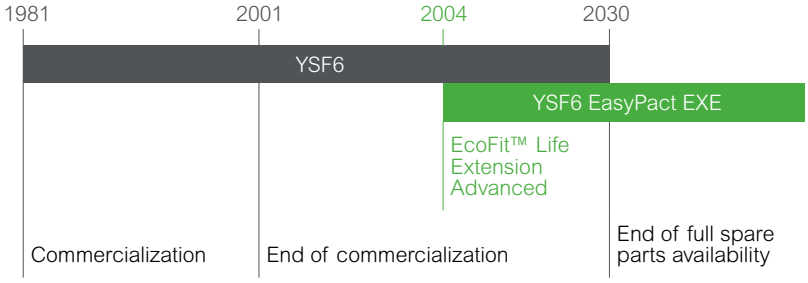
Medium Voltage distribution
YSF6 / YSF6 with YSF6 EasyPact EXE
Original brand: Yorkshire Switchgear

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

YSF6
Circuit Breaker

YSF6 EasyPact EXE
Circuit Breaker





Main technical characteristics

	YSF6
Rated current (Ir)	630 - 1250 A
Short circuit current (Isc)	Up to 25 kA
Rated voltage Un (50/60 Hz)	12 kV

	YSF6 EasyPact EXE
Technology	Vacuum
Rated voltage Ur (kV)	11
Surge withstand voltage Up (kV)	75 - (95 for Australia)
Nominal frequency (Hz)	50 - 60
Rated current Ir (A)	630 - 1250
Short circuit current Isc (kA)	25
Short circuit duration Tk (s)	3

	YSF6 EasyPact EXE
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO
Closing time (ms)	< 50
Opening time (ms)	< 65
Number of switching operations	10 000
Service temperature (°C)	-25 / + 40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

Cradle to Cradle / All breaker types Withdrawable CB with EasyPact EXE MC cassette (Nex 17/Loose CB)

Original brand: all brands

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

All breaker types
Compatible with all open Air Insulated Switchgear legacy and no legacy cubicles with minimum inside panel width ≥ 560 mm

EasyPact EXE
Circuit Breaker



This solution consists in fitting a cradle inside an existing panel:

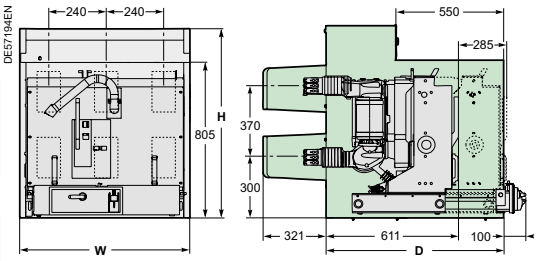
- It is particularly adapted for non Schneider Installed Base.
- EcoFit™ Life Extension Advanced solution with shutters and mechanical interlocks embedded.
- No age condition of the existing equipment.
- Only the width of the existing panel has to be considered.

Main technical characteristics

	All types
Rated current (Ir)	630 - 1250 A
Short circuit current (Isc)	Up to 31.5 kA
Rated voltage Un (50/60 Hz)	7.2 - 12 kV

	MC1
Technology	Vacuum
Rated voltage Ur (kV)	up to 17.5 kV
Surge withstand voltage Up (kV)	60 - 75
Nominal frequency (Hz)	50 - 60
Rated current Ir (A)	up to 2500 A
Short circuit current Isc (kA)	Up to 31.5
Short circuit duration Tk (s)	3

	MC1
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO
Closing time (ms)	< 65
Opening time (ms)	< 50
Number of switching operations	2.000 (for Isc= 40 kA class M1) - 10 000
Service temperature (°C)	-25 / + 40



Cassette	MC1	
Phase to phase (mm)	E	145
Dimensions (mm)	W	556
	H	980
	D	1223
Weight (kg)		222

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

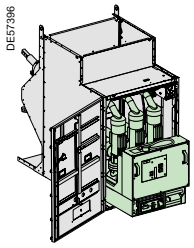
Cradle to Cradle / All breaker types Withdrawable CB with F400 cassette

Original brand: all brands

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

All breaker types
Compatible with
all open Air
Insulated
Switchgear legacy
and no legacy
cubicles
with minimum inside
panel width
≥ 1105 mm

Circuit Breaker



This solution consists in fitting a cradle inside an existing panel:

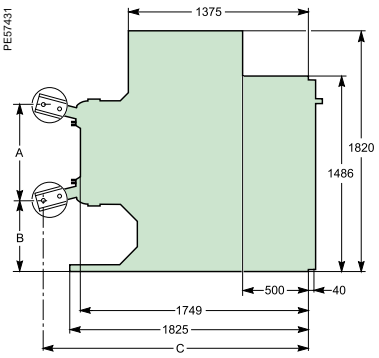
- It is particularly adapted for non Schneider Installed Base.
- EcoFit™ Life Extension Advanced solution with shutters and mechanical interlocks embedded.
- Only the fixed connections (between the cradle and existing busbar) are customized.
- No age condition of the existing equipment.
- Only the width of the existing panel has to be considered.

Main technical characteristics

	All types	
Rated current (Ir)	1250 - 2500 A	1250 A
Short circuit current (Isc)	Up to 40 kA	Up to 31.5 kA
Rated voltage Un (50/60 Hz)	24 - 36 kV	40.5 kV

	F400 - EvoPact SF	F400 cassette
Technology	SF6	SF6
Rated voltage Ur (kV)	24 - 36	40.5
Surge withstand voltage Up (kV)	125 - 170	185
Nominal frequency (Hz)	50 - 60	50 - 60
Rated current Ir (A)	1250 - 2500	630 - 1250
Short circuit current Isc (kA)	25 - 40	31.5
Short circuit duration Tk (s)	3	3

	MC1	MC2
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO	
Closing time (ms)	< 65	< 65
Opening time (ms)	< 50	< 50
Number of switching operations	10 000	10 000
Service temperature (°C)	-25 / + 40	-25 / + 40



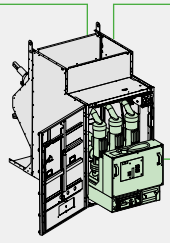
Cassette		1250 A	2500 A - 3000 A
Dimensions (mm)	A	748	752
	B	540	533
	C	2030	2030
Weight (kg)		750	850

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom
Arc Flash
See page G1

PROTECTION



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

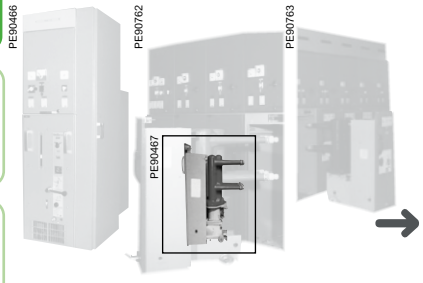
Medium Voltage distribution

Cemafluor-C26.2/FPR with FPR

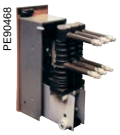
Original brand: CEM, Delle Alsthom, GEC-Alsthom

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

FPR
Circuit Breaker



FPR
Circuit Breaker





Main technical characteristics

	FPR
Rated current (Ir)	400 - 1250 A
Short circuit current (Isc)	12.5 kA
Rated voltage Un (50/60 Hz)	24 kV

	FPR
Technology	SF6
Rated voltage Ur (kV)	24
Surge withstand voltage Up (kV)	125
Nominal frequency (Hz)	50 - 60
Rated current Ir (A)	400 - 1250
Short circuit current Isc (kA)	12.5
Short circuit duration Tk (s)	1

	FPR
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-15 s-CO
Closing time (ms)	50
Opening time (ms)	80
Number of switching operations	10 000
Service temperature (°C)	-25/+40

Make the most of your equipment with available add-ons



Protection relays
Easergy Px, Sepam, MiCom, Arc Flash
See page G1

PROTECTION

SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1



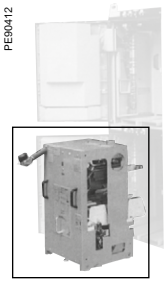
Medium Voltage distribution

Fluair F100C/R400-R400D with R400-R400D

Original brand: Merlin Gerin

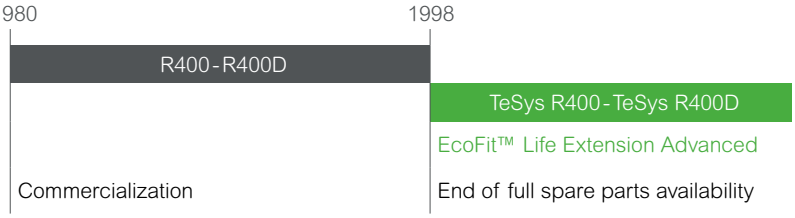
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

R400-R400D Contactor



TeSys R400-TeSys R400D Contactor





Main technical characteristics

	R400 – R400D		
Rated current (Ir)	80 - 250 A	Closing time (ms)	Current 75-155
Short circuit current (Isc)	50 kA (with fuses)	Opening time (ms)	20-50
Rated voltage Un (50/60 Hz)	7.2 kV	Number of operations	300000 - 100000

	TeSys R400	TeSys R400D
Technology	SF6	SF6
Rated voltage Ur (kV)	7.2	7.2
Surge withstand voltage Up (kV)	60	60
Nominal frequency (Hz)	50-60	50-60
Rated current Ir (A)	80-250	80-250
Short circuit current Isc (kA)	50 (with fuses)	50 (with fuses)
Short circuit duration Tk (s)	3	3

	TeSys R400	TeSys R400D
Closing time (ms)	75-155	75-155
Opening time (ms)	20-50	20-50
Number of switching operations	300000	100000
Service temperature (°C)	-25/+40	-25/+40

Make the most of your equipment with available add-ons

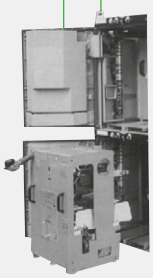


Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION

SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1



Medium Voltage distribution

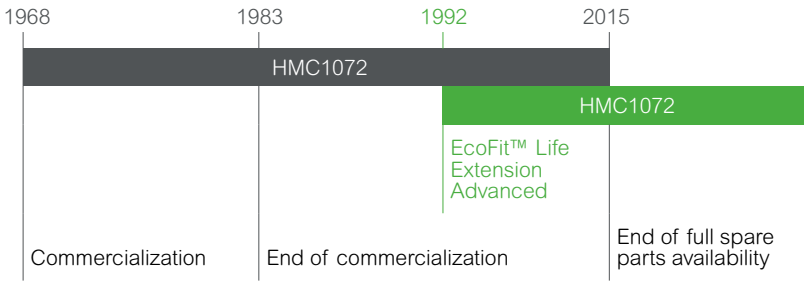
HMC1072/HMC1072 with HMC1072

Original brand: GEC, GEC-Alsthom, Alstom, AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

HMC1072 Circuit Breaker





Main technical characteristics

	HMC1072
Rated current (Ir)	400 A
Short circuit current (Isc)	63 kA rms/1 s - 50 kA rms/3 s
Rated voltage Un (50/60 Hz)	7.2 kV

	HMC1072
Technology	Vacuum
Rated voltage Ur (kV)	7.2
Surge withstand voltage Up (kV)	Up to 75
Nominal frequency (Hz)	50 - 60
Rated current Ir (A)	400
Short circuit current Isc (kA)	50 - 63
Short circuit duration Tk (s)	3 to 1

	HMC1072
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO
Closing time (ms)	< 52
Opening time (ms)	< 61
Number of switching operations	10 000
Service temperature (°C)	-25/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



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EcoCare Service Plan with Membership



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Power Monitoring Expert



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

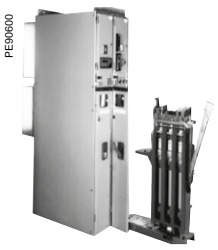
Medium Voltage distribution

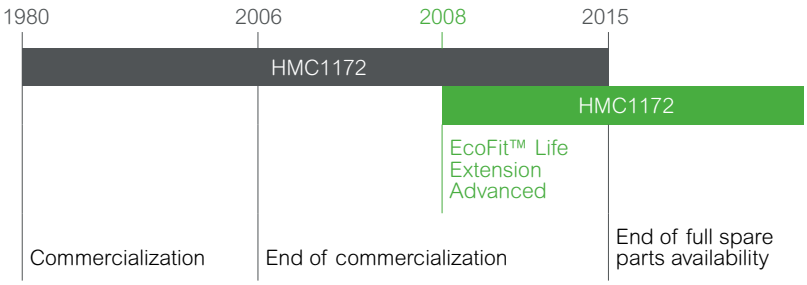
HMC1172/HMC1172 with HMC1172

Original brand: GEC, GEC-Alsthom, Alstom, AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

HMC1172 Circuit Breaker





Main technical characteristics

	HMC1172
Rated current (Ir)	400 A
Short circuit current (Isc)	63 kA rms/1 s - 50 kA rms/3 s
Rated voltage Un (50/60 Hz)	7.2 kV

	HMC1172	HMC1172 contactor
Technology	Vacuum	Vacuum
Rated voltage Ur (kV)	7.2	7.2
Surge withstand voltage Up (kV)	60	63
Nominal frequency (Hz)	50-60	50-60
Rated current Ir (A)	1000-2000	400
Short circuit current Isc (kA)	25-31.5	9
Short circuit duration Tk (s)	3	1

	HMC1172	HMC1172 contactor
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO	O/C
Closing time (ms)	90-120	90-120
Opening time (ms)	< 61	< 61
Number of switching operations	10 000	1.000 000
Service temperature (°C)	-25/+40	-25/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

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SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

HWX / HWX with HWX

Original brand: Schneider Electric, GEC, GEC-Alsthom, Alstom, AREVA

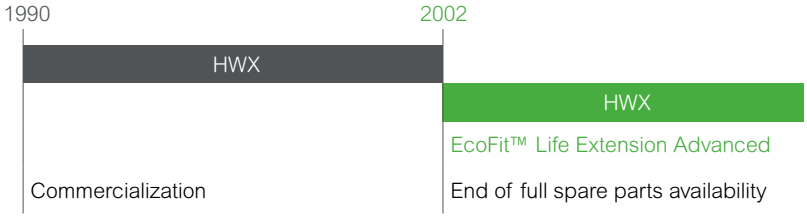
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

HWX
Circuit Breaker



HWX
Circuit Breaker





EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	HWX with EvoPact HVX
Rated current (Ir)	3150 A
Short circuit current (Isc)	50 kA
Rated voltage Un (50/60 Hz)	12 kV

	HWX
Technology	Vacuum
Rated voltage Ur (kV)	12
Surge withstand voltage Up (kV)	75
Nominal frequency (Hz)	50
Rated current Ir (A)	3150
Short circuit current Isc (kA)	50
Short circuit duration Tk (s)	3

	HWX
Switching sequence	O-0.3 s-CO-3 min-CO
Closing time (ms)	≤ 60
Opening time (ms)	≤ 60
Number of switching operations	
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons



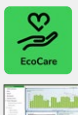
Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

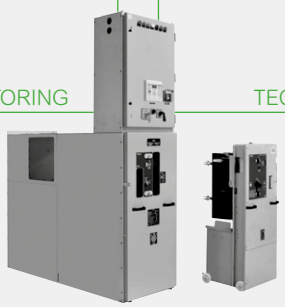
MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

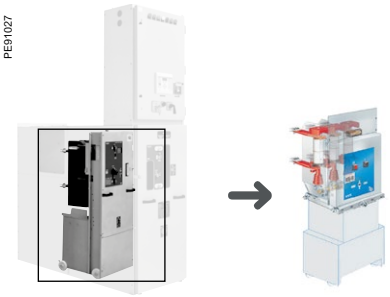
HWX
with EvoPact HVX

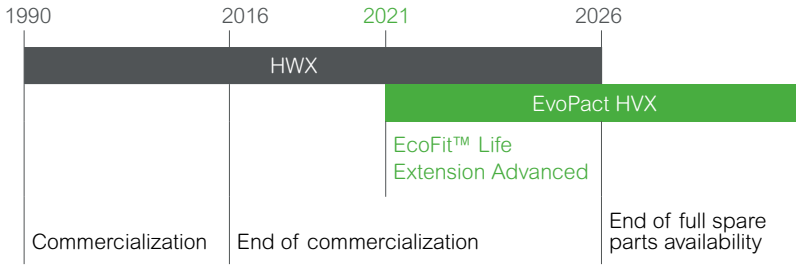
Original brand: GEC-Alsthom, Alstom, AREVA, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

HWX
Circuit Breaker

EvoPact HVX
Circuit Breaker





Main technical characteristics

	HWX
Rated Voltage Un (50/60Hz)	up to 12 kV
Rated current (Ir)	up to 3150 A
Short Circuit Current (Isc)	up to 50 kA

	EvoPact HVX
Breaking Technology	Vacuum
Rated Voltage Ur (kV)	up to 12
Surge withstand voltage Up (kV)	75
Nominal frequency (Hz)	50
Rated current Ir (A)	up to 3150
Short circuit current Isc (kA)	up to 40
Short circuit duration Tk (s)	3

	EvoPact HVX
Switching sequence	O - 0.3 s - CO - 3 mn - CO
Closing time (ms)	40
Opening time (ms)	25-45
Number of switching operations	10000
Ambient temperature (°C)	-25 / +40

Make the most of your equipment with available add-ons



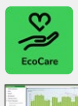
Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

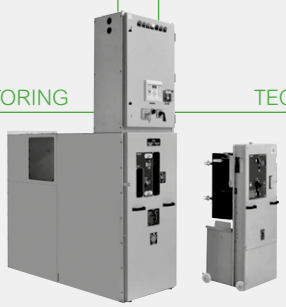
MONITORING



Services
EcoCare Service Plan with Membership



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SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

HWX
with HWX-EvoPact HVX

Original brand: GEC Alsthom, Alstom, AREVA, Schneider Electric

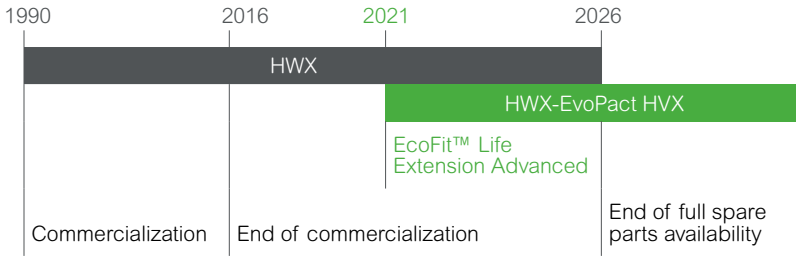
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

HWX
Circuit Breaker



HWX-HVX
Circuit Breaker





Main technical characteristics

	HWX
Rated Voltage Un (50/60Hz)	12 kV
Rated current (Ir)	up to 5000 A
Short Circuit Current (Isc)	up to 50 kA

	HWX-EvoPact HVX
Insulation / Breaking Technology	AIS / Vacuum
Rated Insulation level (kV)	12
Rated power frequency whistand voltage / 1mn (kVrms)	28
Lighting impluse wistand voltage (peak value) (kVp)	75
Overall dimensions (W x H x D in mm)	up to 860 x 2400 x 1800

	HWX-EvoPact HVX
Rated current of busbar (A)	up to 3150
Rated short time whistand current (3s) (kA)	up to 40
Internal Arc classification (1s) (AFLR) (kA)	40
Ingress Protection degree	IP4x

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

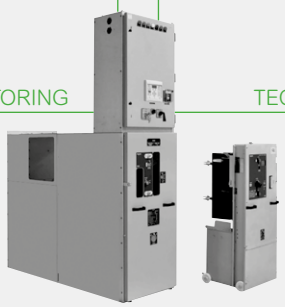


Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert

PROTECTION
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SUSTAINABILITY
TECHNOLOGY



EcoFit™ Recover
Raw material recovery
See page J1

Vacuum vs SF6
Vacuum solutions may require overvoltage protections
See B56 & B58

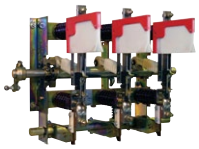
Medium Voltage distribution

L-TRI 36kV with L-TRI 36kV

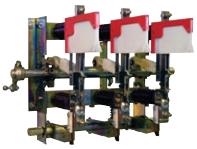
Original brand: Sprecher&Shuhe, GEC, GEC-Alsthom, Alstom, Areva, Schneider Electric

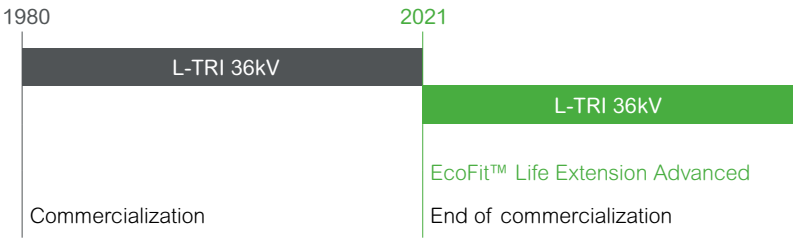
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extented life time

L-TRI 36kV
Switch
Disconnector



L-TRI 36kV
Switch
Disconnector





Main technical characteristics

	L-TRI 36kV
Rated current (Ir)	630 A – 1000 A
Short circuit current (Isc)	20 kA-1s / 14 kA 3s
Rated voltage Un (50/60 Hz)	36 kV

	L-TRI 36kV
Rated current (Ir)	630 A – 1000 A
Short circuit current (Isc)	20 kA-1s / 14 kA 3s
Rated voltage Un (50/60 Hz)	36 kV

Make the most of your equipment with available add-ons



Protection Relays
Easergy Px, Sepam, MiCom
See page G1

MONITORING

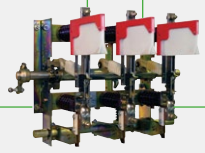
SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1



EcoFit™ Life Extension Essential
T°, Humidity, Arc Flash
See page F1

DIGITAL



TECHNOLOGY

Vacuum vs SF6
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

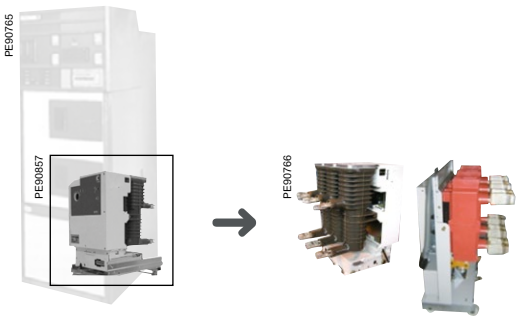
Normaclad PX12-24/FPX with FPX

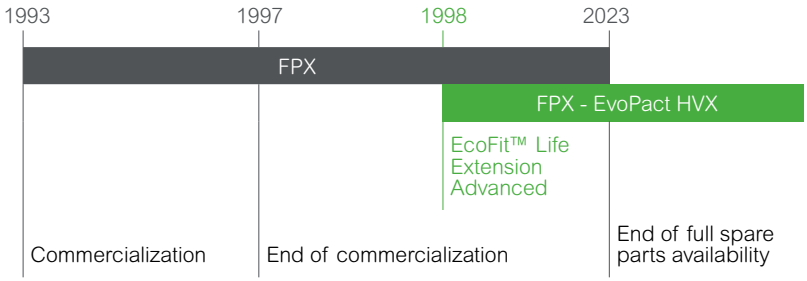
Original brand: GEC-Alsthom

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

FPX
Circuit Breaker

EvoPact HVX
Circuit Breaker





Main technical characteristics

	FPX	
Rated current (Ir)	Up to 3150 A	Up to 2500 A
Short circuit current (Isc)	40 kA	31.5 kA/3s
Rated voltage Un (50/60 Hz)	12 kV	24 kV

	EvoPact HVX	FPX		
Technology	Vacuum	SF6	SF6	SF6
Rated voltage Ur (kV)	12	12	17.5	24
Surge withstand voltage Up (kV)	75	100	80	80
Nominal frequency (Hz)	50-60	50-60	50-60	50-60
Rated current Ir (A)	630 - 3150	3150	2500	2500
Short circuit current Isc (kA)	16 - 50	40	31.5	31.5
Short circuit duration Tk (s)	3	3	3	3

	EvoPact HVX	FPX		
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-15 s-CO O-0.3 s-CO-15 s-CO			
Closing time (ms)	35 - 53	50	50	50
Opening time (ms)	45 - 63	50	50	50
Number of switching operations	10 000	10 000	10 000	10 000
Service temperature (°C)	-5/+40	-5/+40	-5/+40	-5/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6
Vacuum solutions may require overvoltage protections
See B56 & B58

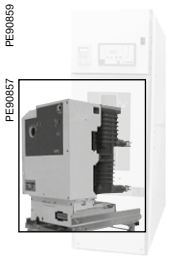
Medium Voltage distribution

PIX SF6-FPX with FPX

Original brand: Alstom, AREVA, Schneider Electric

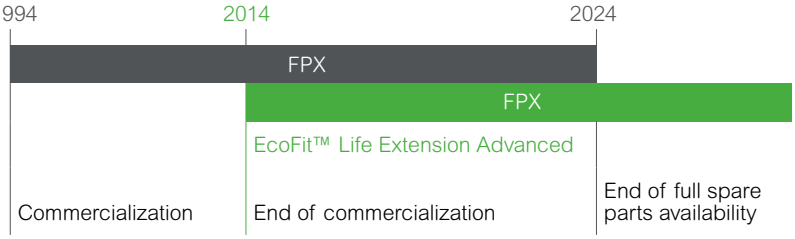
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

FPX Circuit Breaker



FPX Circuit Breaker





Main technical characteristics

	FPX		
Rated current (Ir)	Up to 3150 A	Up to 2500 A	Up to 2500 A
Short circuit current (Isc)	40 kA	31.5 kA	31.5 kA
Rated voltage Un (50/60 Hz)	12 kV	17.5 kV	24 kV

	FPX		
Technology	SF6	SF6	SF6
Rated voltage Ur (kV)	12	17.5	24
Surge withstand voltage Up (kV)	75	95	125
Nominal frequency (Hz)	50-60	50-60	50-60
Rated current Ir (A)	Up to 3150	Up to 2500	Up to 2500
Short circuit current Isc (kA)	Up to 40	Up to 31.5	Up to 31.5
Short circuit duration Tk (s)	3	3	3

	FPX
Switching sequence	O-3 mn-CO-3 mn-CO CO-0.3 s-CO-15 s-CO O-0.3 s-CO-3 mn-CO
Closing time (ms)	50
Opening time (ms)	50
Number of switching operations	10 000
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



SUSTAINABILITY

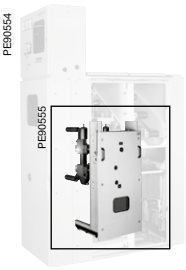
EcoFit™ Recover
SF6, raw material recovery
See page J1

Medium Voltage distribution

R/VA-VAA
with VA-VAA
Original brand: AEG, Alstom

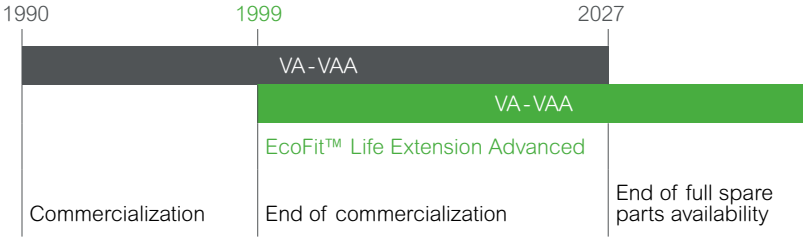
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

VA-VAA
Circuit Breaker



VA-VAA
Circuit Breaker





Main technical characteristics

	VA-VAA
Rated current (Ir)	1250-4000 A
Short circuit current (Isc)	16-50 kA
Rated voltage Un (50/60 Hz)	12-36 kV

	VA-VAA
Technology	Vacuum
Rated voltage Ur (kV)	12-24-36
Surge withstand voltage Up (kV)	75-125
Nominal frequency (Hz)	50-60
Rated current Ir (A)	630-3550
Short circuit current Isc (kA)	16-50
Short circuit duration Tk (s)	3

	VA-VAA
Switching sequence	O-0.3 s-CO-3 min-CO
Closing time (ms)	20
Opening time (ms)	20-50
Number of switching operations	10 000
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

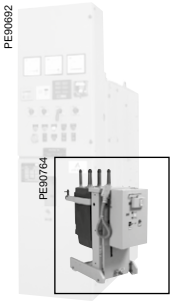
Medium Voltage distribution

VMX/VMX with VMX

Original brand: GEC-Alsthom, Alstom, AREVA

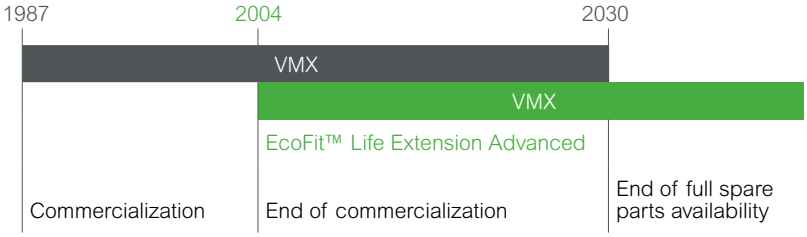
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

VMX
Circuit Breaker



VMX
Circuit Breaker





Main technical characteristics

	VMX
Rated current (Ir)	630-2000 A
Short circuit current (Isc)	Up to 25 kA/3 s
Rated voltage Un (50/60 Hz)	11 kV

	VMX
Technology	Vacuum
Rated voltage Ur (kV)	11
Surge withstand voltage Up (kV)	95
Nominal frequency (Hz)	50-60
Rated current Ir (A)	630-1250
Short circuit current Isc (kA)	25
Short circuit duration Tk (s)	3

	VMX
Switching sequence	O-3 min-CO-3 min-CO O-0.3 s-CO-3 min-CO O-0.3 s-CO-15 s-CO
Closing time (ms)	< 52
Opening time (ms)	< 61
Number of switching operations	10000
Service temperature (°C)	-25/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

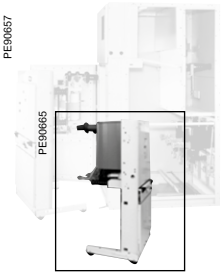
Medium Voltage distribution

WBA/VA-VAA with VA-VAA

Original brand: AEG, Alstom, AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

VA-VAA
Circuit Breaker



VA-VAA
Circuit Breaker





EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	VA	VAA
Rated current (Ir)	630-2500 A	630-1250 A
Short circuit current (Isc)	20-50 kA	16-25 kA
Rated voltage Un (50/60 Hz)	12-24 kV	12-24 kV

	VA-VAA
Technology	Vacuum
Rated voltage Ur (kV)	12-24
Surge withstand voltage Up (kV)	75-125
Nominal frequency (Hz)	50-60
Rated current Ir (A)	600-2500
Short circuit current Isc (kA)	25-31.5
Short circuit duration Tk (s)	3

	VA-VAA
Switching sequence	O-0.3 s-CO-3 min-CO
Closing time (ms)	20
Opening time (ms)	20-50
Number of switching operations	10000
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION

SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



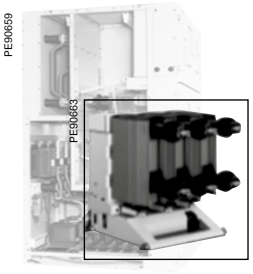
Medium Voltage distribution

WBB/VA-VAA with VA-VAA

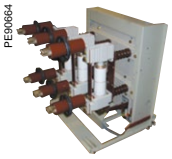
Original brand: AEG, Alstom, AREVA

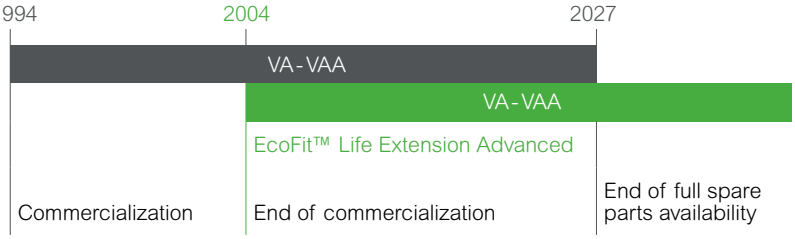
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

VA-VAA
Circuit Breaker



VA-VAA
Circuit Breaker





EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	VA	VAA
Rated current (Ir)	630-2500 A	630-1250 A
Short circuit current (Isc)	20-50 kA	16-25 kA
Rated voltage Un (50/60 Hz)	12 kV	12 kV

	VA-VAA
Technology	Vacuum
Rated voltage Ur (kV)	12
Surge withstand voltage Up (kV)	75-95
Nominal frequency (Hz)	50-60
Rated current Ir (A)	630-2500
Short circuit current Isc (kA)	16-31.5
Short circuit duration Tk (s)	3

	VA-VAA
Switching sequence	O-0.3 s-CO-3 min-CO
Closing time (ms)	20
Opening time (ms)	20-50
Number of switching operations	10 000
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1

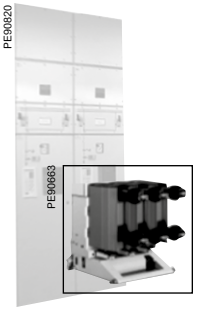
Medium Voltage distribution

WBD/VA-VAA with VA-VAA

Original brand: AEG, Alstom, AREVA, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

VA-VAA
Circuit Breaker



VA-VAA
Circuit Breaker





EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	VA-VAA
Rated current (Ir)	630-2500 A
Short circuit current (Isc)	25-31.5 kA
Rated voltage Un (50/60 Hz)	12 kV

	VA-VAA
Technology	Vacuum
Rated voltage Ur (kV)	12
Surge withstand voltage Up (kV)	80
Nominal frequency (Hz)	50-60
Rated current Ir (A)	630-3150
Short circuit current Isc (kA)	25-31.5
Short circuit duration Tk (s)	3

	VA-VAA
Switching sequence	O-0.3 s-CO-3 min-CO
Closing time (ms)	20
Opening time (ms)	20-50
Number of switching operations	10000
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION

SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



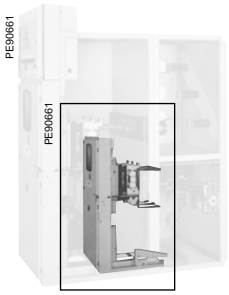
Medium Voltage distribution

WK (A/B/C/D/E/F) / VA-VAA with VA-VAA

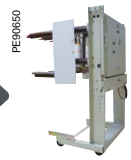
Original brand: AEG, Alstom, AREVA

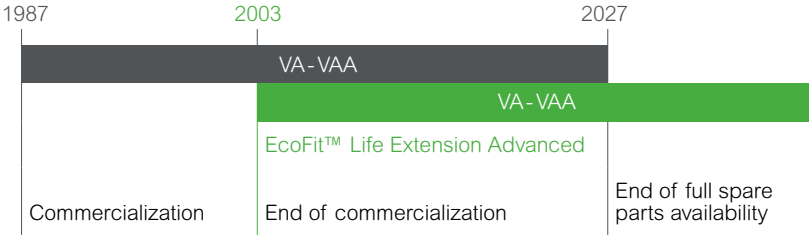
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

VA-VAA
Circuit Breaker



VA-VAA
Circuit Breaker





EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	VA-VAA
Rated current (Ir)	630-2500 A
Short circuit current (Isc)	31.5-50 kA
Rated voltage Un (50/60 Hz)	Up to 36 kV

	VA-VAA
Technology	Vacuum
Rated voltage Ur (kV)	12-36
Surge withstand voltage Up (kV)	60-110
Nominal frequency (Hz)	50-60
Rated current Ir (A)	400-4000
Short circuit current Isc (kA)	10-50
Short circuit duration Tk (s)	3

	VA-VAA
Switching sequence	O-0.3 s-CO-3 min-CO
Closing time (ms)	20
Opening time (ms)	20-50
Number of switching operations	10 000
Service temperature (°C)	-5/+40

Make the most of your equipment with available add-ons

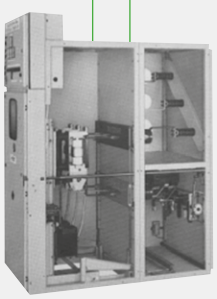


Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION

SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1

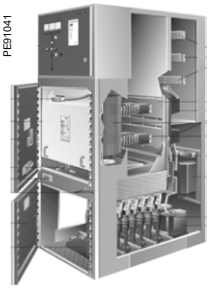


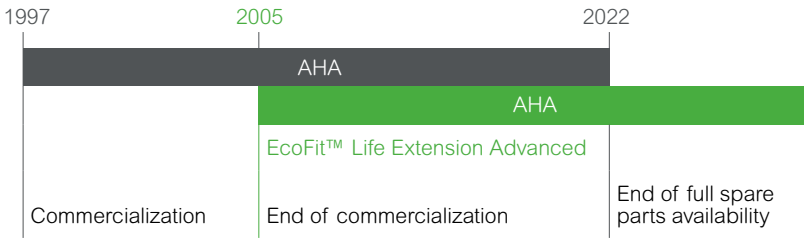
Medium Voltage distribution

AHA panel
with AHA panel
Original brand: AEG, Alstom, AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

AHA





Main technical characteristics

	AHA
Rated current (Ir)	Up to 4000 A
Short circuit current (Isc)	Up to 40 kA
Rated voltage Un (50/60 Hz)	12 kV

	AHA
Rated insulation level (kV)	12
Rated power frequency withstand voltage/1mn (kVrms)	38
Lightning impulse withstand voltage (peak value) (kVp)	95
Overall dimensions (w x h x d) (mm)	700 x 2330 x 1450 900 x 2330 x 1450

	AHA
Rated current of busbar (A)	Up to 4000
Rated short time withstand current (4s) (kA)	Up to 40
Internal Arc Classification (1s) (AFLR)	31.5
Ingress Protection degree (IP)	Enclosure IP42 - Compartment IP2X

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash, Remote racking
See page G1

PROTECTION

SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1



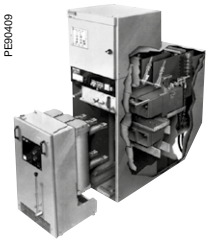
Medium Voltage distribution

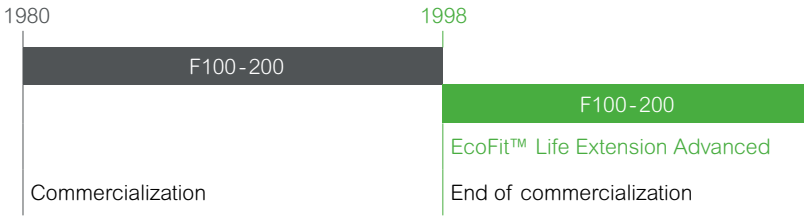
Fluair F100-F200 panel with Fluair F100-F200 panel

Original brand: Merlin Gerin

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

F100-200





Main technical characteristics

	F100	F200
Rated current (Ir)	630-3150 A	630-3150 A
Short circuit current (Isc)	25-50 kA	25-50 kA
Rated voltage Un (50/60 Hz)	7.2 kV	12-17.5 kV

	F100-F200
Rated insulation level (kV)	7.2-12-17.5
Rated power frequency withstand voltage/1mn (kVrms)	20-28-38
Lightning impulse withstand voltage (peak value) (kVp)	60-75-95
Overall dimensions (w x h x d) (mm)	≤ 1250 A: 650 x 2100 x 1455/1700 2500-3150 A: 900 x 2100 x 1700

	F100-F200
Rated current of busbar (A)	Up to 3150
Rated short time withstand current (3s) (kA)	Up to 50
Internal Arc Classification (1s) (AFLR)	
Ingress Protection degree (IP)	Enclosure IP3X

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential with EvoPact LF circuit breaker
T°, Humidity, CB health status
See page F1

MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert



SUSTAINABILITY

EcoFit™ Recover
SF6, Raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

Normaclad PX12-24 panel with Normaclad PX12-24 panel

Original brand: GEC-Alsthom

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

PX12-24





Main technical characteristics

	PX12	PX24
Rated current (Ir)	400-3150 A	400-2500 A
Short circuit current (Isc)	25-40 kA	16-25-31.5 kA
Rated voltage Un (50/60 Hz)	12 kV	24 kV

	PX12	PX24
Rated insulation level (kV)	12	24
Rated power frequency withstand voltage/1mn (kVrms)	28	50
Lightning impulse withstand voltage (peak value) (kVp)	75	125
Overall dimensions (w x h x d) (mm)	<1250 A: 650x2135x1320 ≤2000 A: 750x2135x1320 >2000 A: 900x2135x1320	≤2000 A: 750x2135x1320 >2000 A: 900x2335x1570

	PX12	PX24
Rated current of busbar (A)	630-3150	630-2500
Rated short time withstand current (4s) (kA)	25-40	25-31.5
Internal Arc Classification (1s) (AFLR)	25	25
Ingress Protection degree (IP)	Enclosure IP3X	Enclosure IP3X

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1



TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58



Medium Voltage distribution

PIX-SF6 panel with PIX-SF6 panel

Original brand: Alstom, AREVA, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

PIX-SF6





Main technical characteristics

	PIX-SF6		
Rated current (Ir)	Up to 3150 A	Up to 2500 A	Up to 2500 A
Short circuit current (Isc)	40 kA/3 s	31.5 kA/3 s	31.5 kA/3 s
Rated voltage Un (50/60 Hz)	12 kV	17.5 kV	24 kV

	PIX-SF6		
Rated insulation level (kV)	12	17.5	24
Rated power frequency withstand voltage/1mn (kVrms)	28	38	50
Lightning impulse withstand voltage (peak value) (kVp)	75	95	125
Overall dimensions (wxhxd) (mm)	1000x2130x1405 - 1000x2330x1605 - 1000x2330x1605		

	PIX-SF6		
Rated current of busbar (A)	Up to 3150	Up to 2500	Up to 2500
Rated short time withstand current (4s) (kA)	40	31.5	31.5
Internal Arc Classification (1s) (AFLR)	40	40	40
Ingress Protection degree (IP)	IP3X	IP3X	IP3X

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

VMX panel
with VMX panel
Original brand: GEC-Alsthom, Alstom, AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

VMX





Main technical characteristics

	VMX
Rated current (Ir)	630 - 2000 A
Short circuit current (Isc)	Up to 25 kA / 3 s
Rated voltage Un (50/60 Hz)	11 kV

	VMX
Rated insulation level (kV)	12
Rated power frequency withstand voltage/1 mn (kVrms)	28 - 35
Lightning impulse withstand voltage (peak value) (kVp)	75
Overall dimensions (w x h x d) (mm)	606 - 540 x 2000 - 2000 x 1867 - 1360

	VMX
Rated current of busbar (A)	Up to 2000
Rated short time withstand current (4 s) (kA)	Up to 26.3
Internal Arc Classification (1 s) (AFLR)	25
Ingress Protection degree (IP)	IP3X

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



SUSTAINABILITY

EcoFit™ Recover
SF6, raw material recovery
See page J1

Medium Voltage distribution

WBA panel
with WBA panel
Original brand: AEG, Alstom, AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

WBA





Main technical characteristics

	WBA	
Rated current (Ir)	630 - 2500 A	630 - 2500 A
Short circuit current (Isc)	16 - 25 kA & 20 - 50 kA	20 - 50 kA
Rated voltage Un (50/60 Hz)	12 - 24 kV	12 - 38 kV

	WBA
Rated insulation level (kV)	12 - 24
Rated power frequency withstand voltage/1 mn (kVrms)	28 - 50
Lightning impulse withstand voltage (peak value) (kVp)	75 - 125
Overall dimensions (w x h x d) (mm)	600/800/1000 x 2330 x 1250/1300

	WBA
Rated current of busbar (A)	630 - 2500
Rated short time withstand current (4 s) (kA)	63 - 80
Internal Arc Classification (1 s) (AFLR)	PEHLA 31.5 kA
Ingress Protection degree (IP)	Standard IP2X On request IP3X, IP4X

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash, Remote racking
See page G1

PROTECTION

SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1



Services
EcoCare Service Plan with Membership

MONITORING

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58



Software
Power Monitoring Expert



Medium Voltage distribution

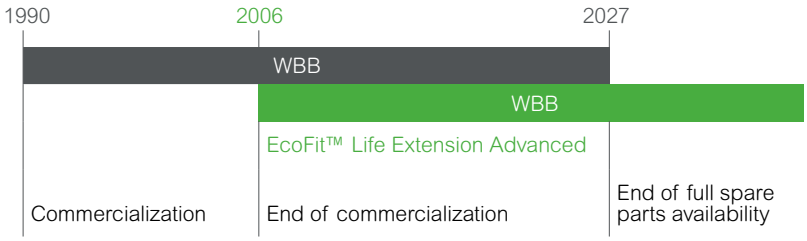
WBB panel with WBB panel

Original brand: AEG, Alstom, AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

WBB





Main technical characteristics

	WBB
Rated current (Ir)	630 - 2500 A
Short circuit current (Isc)	20 - 50 kA
Rated voltage Un (50/60 Hz)	12 - 24 kV

	WBB
Rated insulation level (kV)	12 - 24
Rated power frequency withstand voltage/1 mn (kVrms)	28 - 38
Lightning impulse withstand voltage (peak value) (kVp)	75 - 95
Overall dimensions (w x h x d) (mm)	600, 800, 1000 x 2330 x 1250, 1500

	WBB
Rated current of busbar (A)	630 - 2500
Rated short time withstand current (4 s) (kA)	63 - 80
Internal Arc Classification (1 s) (AFLR)	PEHLA 31.5 kA
Ingress Protection degree (IP)	Standard IP2X On request IP3X, IP4X

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash, Remote racking
See page G1

PROTECTION



Services
EcoCare Service Plan with Membership

MONITORING



Software
Power Monitoring Expert



SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Medium Voltage distribution

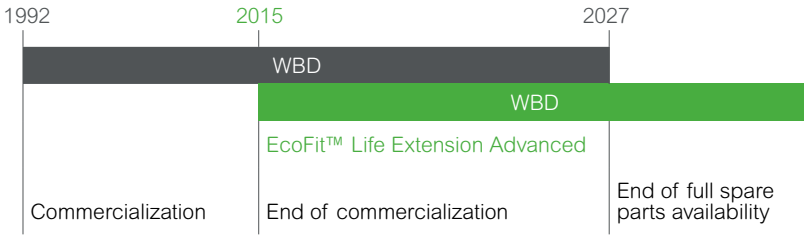
WBD panel
with WBD panel

Original brand: AEG, Alstom, AREVA, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

WBD





Main technical characteristics

	WBD
Rated current (Ir)	630-3150 A
Short circuit current (Isc)	80 kA
Rated voltage Un (50/60 Hz)	12 kV

	WBD
Rated insulation level (kV)	12
Rated power frequency withstand voltage/1 mn (kVrms)	28
Lightning impulse withstand voltage (peak value) (kVp)	80
Overall dimensions (w x h x d) (mm)	600, 800 x 3000 x 1750

	WBD
Rated current of busbar (A)	630-3150*
Rated short time withstand current (4 s) (kA)	80
Internal Arc Classification (1 s) (AFLR)	PEHLA 31.5 kA
Ingress Protection degree (IP)	IP2X even for open door and modul in disconnecting position, IP3X to the busbar, outside IP52 possible

* With forced cooling (on request)

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash, Remote racking
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity, CB health status
See page F1

MONITORING



SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

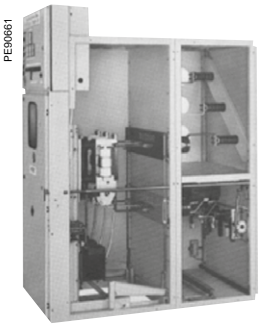
Medium Voltage distribution

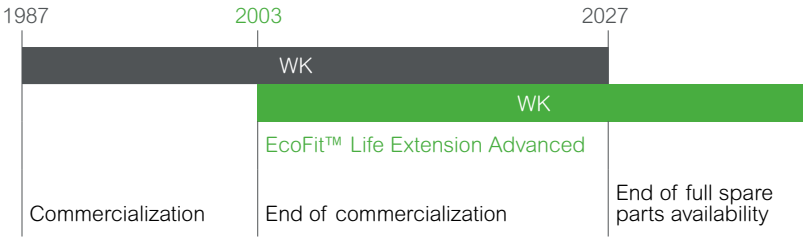
WK panel with WK panel

Original brand: AEG, Alstom, AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

WK





Main technical characteristics

	WK
Rated current (Ir)	630-3150 A
Short circuit current (Isc)	20-50 kA/3 s
Rated voltage Un (50/60 Hz)	12-24-38 kV

	WK
Rated insulation level (kV)	12-36
Rated power frequency withstand voltage/1 mn (kVrms)	28-38
Lightning impulse withstand voltage (peak value) (kVp)	110
Overall dimensions (w x h x d) (mm)	600/1060 x 2330 x 1700/2100

	WK
Rated current of busbar (A)	630-4000
Rated short time withstand current (4 s) (kA)	63-80
Internal Arc Classification (1 s) (AFLR)	PEHLA 31.5 kA
Ingress Protection degree (IP)	Standard IP2X On request IP3X, IP4X

Make the most of your equipment with available add-ons



Protection relays
PowerLogic, Sepam, MiCom, Arc Flash, Remote racking
See page G1

PROTECTION

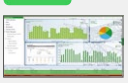


EcoFit™ Life Extension Essential (only WKC)
T°, Humidity, CB health status
See page F1

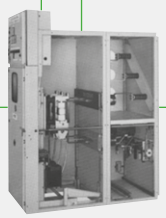
MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert



SUSTAINABILITY

EcoFit™ Recover
Raw material recovery
See page J1

TECHNOLOGY

Vacuum vs SF6, Oil, Air
Vacuum solutions may require overvoltage protections
See B56 & B58

Notes

Medium Voltage distribution

Circuit Breaker & Panel Order Form

First Name	Last Name
Country	Phone
Email ID	Quantity
Serial number of existing CB	
Brand	Type
Range	Type of new CB
Rated Current (A)	Rated Voltage (kV)
Short circuit current (kA/sec)	Isolating technology for new CB
Frequency	Standard
Opening coil (YO1)	Opening coil (YO2)
Under voltage coil (YM)	Closing coil (YF)
Phase to phase distance for MCset	Diagram Number (optional)
JE Number	Year of Installation
Pressure switch for EvoPact SF2	Moisture Heater resistor
Mechanical Interlocking	
Comments/Message	

To request for a quote, please use the EcoFit™ web selector: https://www.se.com/ww/en/ecofit-selector/#/ww/en/tools/ecofit-selector

Medium Voltage distribution
Circuit Breaker & Panel Order Form

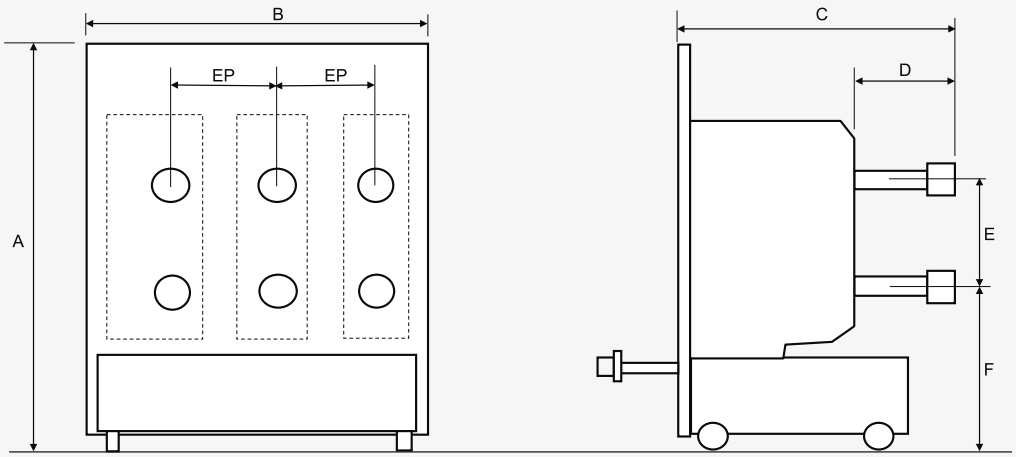
Mechanical characteristics to ensure feasibility

Dimensional plan supplied by customer?

YES ☐

NO ☐ ➡ Fill in required dimensions in the table below:

EP:		A:		B:		C:	
D:		(arm length)		E:		F:	



Established feasibility

Is it possible to send existing equipment to us to verify dimensions?

YES	☐
NO	☐

Additional options requested (availability depends on range type)

Digitization

Temperature	☐
Humidity	☐
Arc Flash	☐
Circuit breaker health status (requires digital protection relay)	☐

Protection

Relay modernization	☐
Remote racking	☐

Sustainability

SF6 Recovery Service	☐

Medium Voltage distribution

SF6 to vacuum recommendations for motor applications

Recommendations when retrofitting with vacuum technology MV synchronous or asynchronous motor with Direct On Line (DOL) starting

The MV motor is a sensitive device in the electrical network.

In fact, the standard defining the insulation levels for MV motors (IEC60034-15) gives rated lightning-impulse voltage withstand levels well below the withstand levels of other equipment of the same voltage level, such as transformers for example.

For example, for an 11 kV network, the rated lightning-impulse voltage withstand is only 49 kV for a motor compared to 75 kV for a transformer.

It is therefore important to

- identify and quantify the overvoltages to which motors may be subjected and
- consider the criticality of the motor (1)

in order to determine whether the replacement of an old generation CB by a vacuum CB can be carried out without special precautions.

Most of the closing or opening operations of a vacuum CB controlling an MV motor do not cause overvoltages that could stress the motor beyond its standard withstand.

The closing operations of the circuit breaker, thus starting the motor, do not generate overvoltages (only an overcurrent, the starting current of the motor).

Most of the opening operations of the vacuum CB controlling an MV motor can generate overvoltages, but these remain well below the standard withstand of the motor and therefore do not require any additional motor protection precautions. These include :

- Opening the circuit breaker to clear an insulation fault or short circuit in the motor or its associated load.
- Opening the circuit breaker when the motor is in operation (regardless of the load).

On the other hand, opening the vacuum CB during the motor starting period is a switching that can generate significant overvoltages that exceed the motor withstand capacity and therefore requires special precautions to avoid this type of switching or to install suitable additional protection.

This opening during the start-up period can be the consequence of :

- incorrect setting of the protections (2): it is essential to have an up-to-date selectivity study applied
- an opening request from the process (3): this opening request from the process can be wired on the protection relay or be in the form of a remote control
- voluntary manoeuvre. For this last point, the customer should be made aware that this type of operation (opening during the motor starting period) can lead to motor failure.

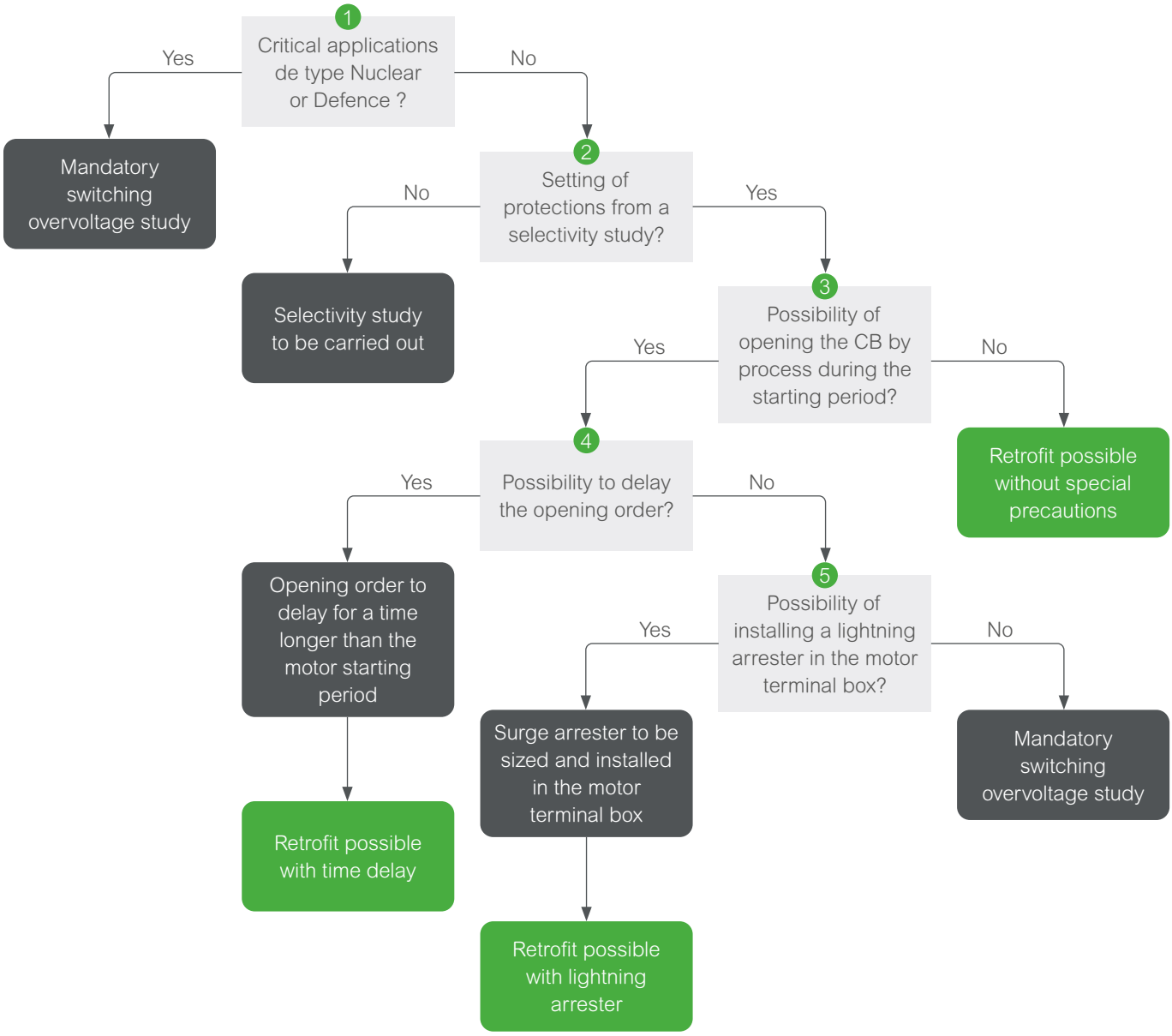
In the case of a possible opening request from the process during the motor start-up period (3), it is important to check if this request can be delayed (4) in order to let the motor finish its starting period. If this is the case, significant overvoltages will be avoided and no additional motor protection precautions need to be considered. This solution should be preferred if it is acceptable by the process.

Otherwise, an effective protection consists in installing surge arresters (5) as close as possible to the motor, i.e. in the motor terminal box.
The proximity of the motor to the surge arrester and the installation of the surge arrester with the shortest possible connection lengths are the two key points for effective protection of the motor against these switching overvoltages.

Medium Voltage distribution

SF6 to vacuum recommendations for motor applications

Retrofit of an old generation MV CB by a vacuum CB for motor applications



Medium Voltage distribution

SF6 to vacuum recommendations for transformer applications

Recommendations when retrofitting CBs with vacuum technology MV/LV or HV/MV transformers

The HV/MV or MV/LV transformer is an essential and critical device in the electrical network.

Indeed, the main power supply of an installation is usually made through one or several transformers, which becomes a critical element (single point of failure).
It is therefore a device to be protected from the risks of overvoltages, whatever their origin.

So, it is important to:

- identify and quantify the overvoltages to which transformers may be subjected and
- consider the criticality of the transformer (1) in order to determine whether the replacement of an old generation CB by a vacuum CB can be carried out without special precautions.

Recommendations when retrofitting CBs with vacuum technology MV/LV or HV/MV transformers

Most of the closing or opening operations of a vacuum circuit-breaker controlling a HV/MV or MV/LV transformer do not cause overvoltages that could stress the transformer beyond its normalized withstand , given in the IEC60071-1 standard.

The closing operations of the circuit breaker, which therefore cause the transformer to be switched on (energisation), do not generate any significant overvoltages (only an overcurrent, inrush current of the transformer). However, they do generate severe mechanical stresses.

A clarification must be made on the number of possible energisation of a transformer without any particular specification (2): the IEC60076-1 standard recalls that a number of energisation greater than 24 times per year is a matter of unusual (abnormal) service conditions and must therefore be agreed between supplier and purchaser. In this case, it is useful to carry out a switching overvoltage study in order to calculate the overvoltage level and to check that their repetitiveness is acceptable to the transformer.

Most of the opening operations of the vacuum CB controlling a transformer can generate overvoltages, but these remain well below the standard withstand of the transformer and therefore do not require any additional transformer protection precautions.

These include :

- Opening the circuit breaker to clear an insulation fault or short circuit.
- Opening the circuit breaker when the transformer is in no-load condition, i.e. with no load connected at the secondary side. Good practice recommends that, whenever possible, the loads of the transformer should be disconnected first, and then, once these loads are disconnected (transformer in no-load condition), the circuit breaker on the primary side of the transformer should be opened. In this case, no significant overvoltage occurs and no additional protection is required.

On the other hand, two situations can lead to significant overvoltages that exceed the withstand voltage level of the transformers:

- opening the vacuum circuit breaker during the transformer's inrush period (energisation),
- opening the vacuum circuit breaker while the transformer is still supplying a load connected to the secondary side of the transformer.

Opening during the transformer's inrush period may be the result of :

- incorrect setting of the protections (3): it is essential to have an up-to-date and applied selectivity study
- voluntary manoeuvre. For this last point, the customer should be made aware that this type of operation (opening during the transformer energisation period) can lead to transformer failure.

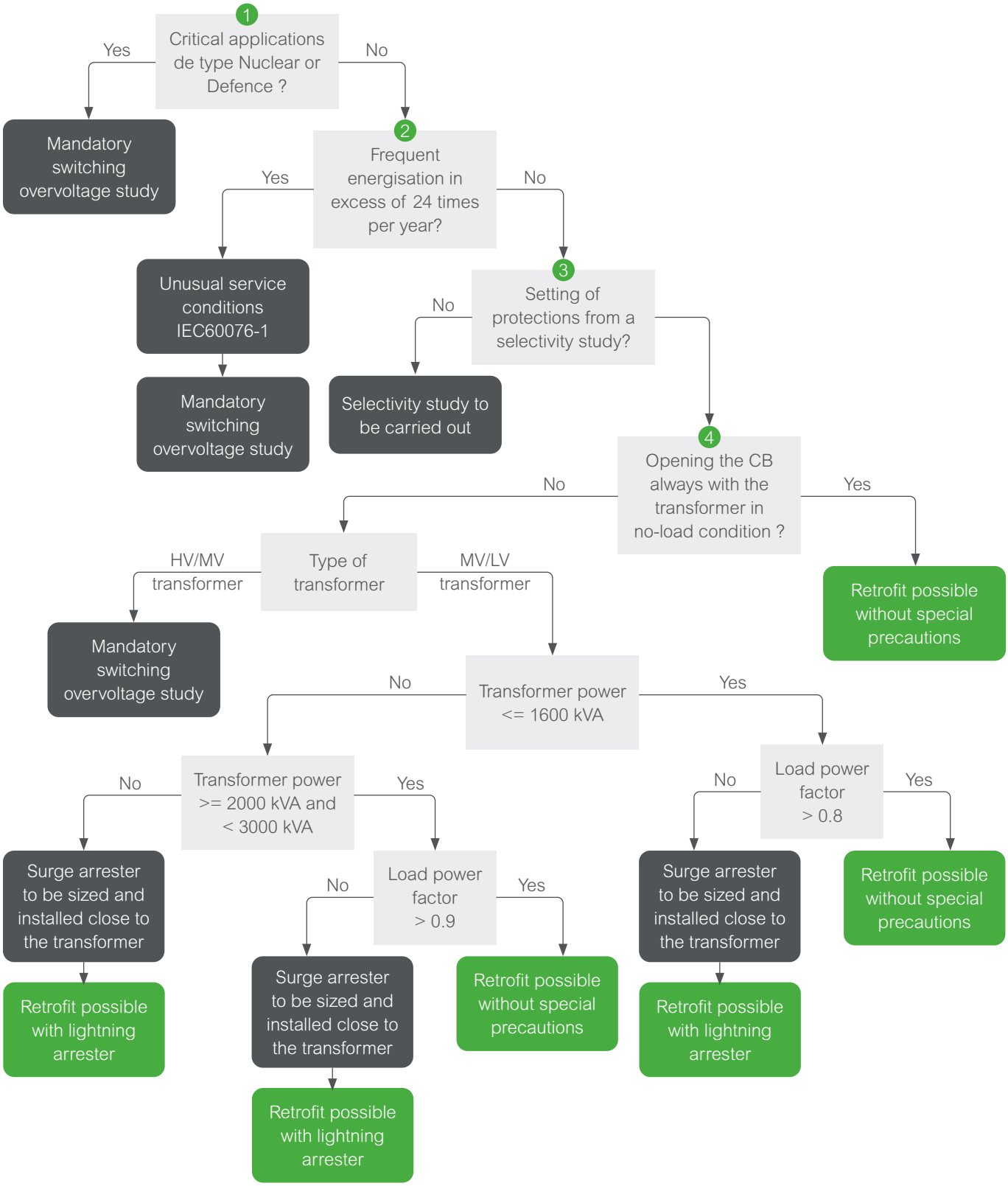
Large overvoltages (greater than the transformer withstand voltage level) can also occur when the vacuum circuit breaker is voluntarily opened when the transformer is not in no-load condition (secondary load still connected). The magnitude of these overvoltages depends on the power of the transformer and the power factor of the load connected on the secondary side (4).

Otherwise, an effective protection consists in installing surge arresters as close as possible to the transformer. The proximity of the transformer to the surge arrester and the installation of the surge arrester with the shortest possible connection lengths are the two key points for effective protection of the transformer against these switching overvoltages.

Medium Voltage distribution

SF6 to vacuum recommendations for transformer applications

Retrofit of an old generation MV CB by a vacuum CB for transformer applications



Low Voltage distribution



Discover EcoFit™: Modernization and circularity services.

Low Voltage distribution

LV Circuit Breaker or Contactor

AK - (1 - 2 - 3 - 4 - 5) - 15/25 Series C2
AK - (1A - 2A - 3A - 4A - 5A) - 15/25 Series C3
AK - (1 - 2 - 3 - 4 - 5) - 50 Series C4
AKR-30 Series C5
AKR-50 Series C6
AKRT-50 Series C7
ComPacT C801 - C1251 ..... C8
DA (DSA1 - DNA1 - DSA2 - DNA2 - DRA - DNAH) C9
DS-206, DS-206H, DS-206E Series..... C10
DS-416, DS-416S, DS-416H Series..... C12
DS-420 Series C13
H Series C14
K-225, K-600, K-800 Series C15
K-1600 Series C16
KDON-600, KDON-800, KDON-1600 Series. C17
LA-600, LA-800 Series C18
LA-1600 Series C19
LAF-600, LAF-800 Series C20
MasterPacT M08 - M63..... C21
SE C22
SelPact..... C23
MasterPacT NT-NW..... C24
LV Circuit Breaker: Source-changeover systems C26
LV Circuit Breaker: Measurements - Diagnostics & Maintenance - Protections - Communication C26
LV Circuit Breaker: Smartpanel integration, architecture and systems..... C26
RL-800, RL-1600, RL-2000 Series..... C27
Emax..... C28

LV Drawer

T140..... C29
MB400 ..... C30
LV Drawers - Associated offers..... C31

Order forms

ComPacT Plug and Play C32
ComPacTkit..... C33
MasterPact M Plug and Play..... C34
Masterkit C35

C

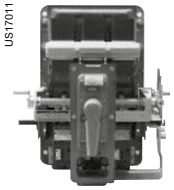
Low Voltage distribution

AK-(1-2-3-4-5)-15/25 Series with MasterPacT MTZ1

Original brand: General Electric

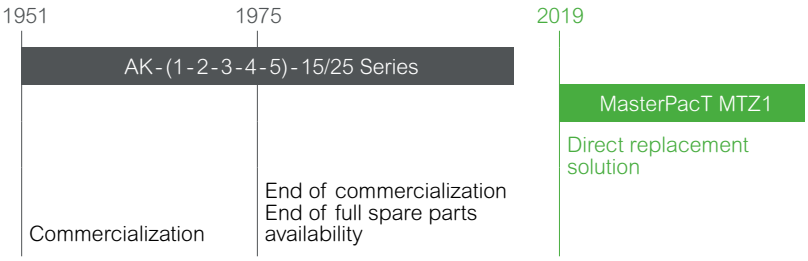
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

AK Series
Circuit Breaker



MasterPacT MTZ1
Circuit Breaker





Main technical characteristics

	AK-(1-2-3-4-5)-15/25 Series	MasterPacT MTZ1
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	800 A	800 A
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	42-30-22 kA	42 kA



AK Series direct replacement solution

The direct replacement AK Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
See page G1

PROTECTION

SUSTAINABILITY

Resources, circular and well-being performances
See page J1



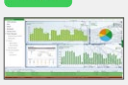


EcoFit™ Life Extension Essential
T°, Humidity,
See page F1

MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert

Low Voltage distribution

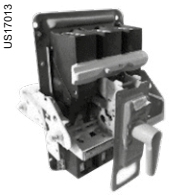
AK-(1A-2A-3A-4A-5A)-15/25 Series with MasterPacT MTZ1

Original brand: General Electric

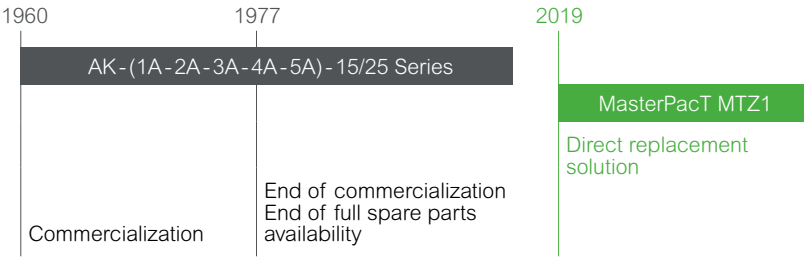
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

AK Series
Circuit Breaker

MasterPacT MTZ1
Circuit Breaker







Main technical characteristics

	AK-(1A-2A-3A-4A-5A)-15/25 Series	MasterPacT MTZ1
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	800 A	800 A
Ultimate breaking capacity (kA rms, 240-480-600 V AC 50/60 Hz) Icu	42-30-22 kA	42 kA



AK Series direct replacement solution

The direct replacement AK Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
See page G1

PROTECTION

SUSTAINABILITY

Resources, circular and well-being performances
See page J1





EcoFit™ Life Extension Essential
T°, Humidity,
See page F1

MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert

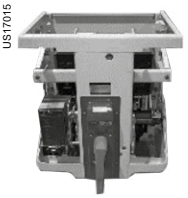
Low Voltage distribution

AK-(1-2-3-4-5)-50 Series with MasterPacT MTZ2

Original brand: General Electric

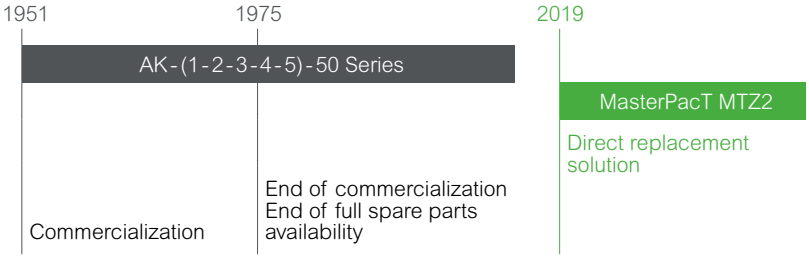
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

AK Series
Circuit Breaker



MasterPacT MTZ2
Circuit Breaker





Main technical characteristics

	AK-(1-2-3-4-5)-50 Series	MasterPacT MTZ2
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	1600 A	1600 A
Ultimate breaking capacity (kA rms, 240-480-600 V AC 50/60 Hz) Icu	65-50-42 kA	65 kA



AK Series direct replacement solution

The direct replacement AK Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
See page G1

PROTECTION

SUSTAINABILITY

Resources, circular and well-being performances
See page J1





EcoFit™ Life Extension Essential
T°, Humidity,
See page F1

MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert

Low Voltage distribution

AKR-30 Series with MasterPacT MTZ1

Original brand: General Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

AKR Series
Circuit Breaker

MasterPacT MTZ1
Circuit Breaker

US17017-3



US17018





Main technical characteristics

	AKR-30 Series	MasterPacT MTZ1
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	800 A	800 A
Ultimate breaking capacity (kA rms, 240-480-600 V AC 50/60 Hz) Icu	42-30-30 kA	42 kA

US17018



AKR Series direct replacement solution

The direct replacement AKR Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
See page G1

PROTECTION

SUSTAINABILITY

Resources, circular and well-being performances
See page J1



EcoFit™ Life Extension Essential
T°, Humidity,
See page F1

MONITORING





Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert

Low Voltage distribution

AKR-50 Series with MasterPacT MTZ2

Original brand: General Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

AKR Series
Circuit Breaker



MasterPacT MTZ2
Circuit Breaker





Main technical characteristics

	AKR-50 Series	MasterPacT MTZ2
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	1600 A	1600 A
Ultimate breaking capacity (kA rms, 240-480-600 V AC 50/60 Hz) Icu	65-50-42 kA	65 kA



AKR Series direct replacement solution

The direct replacement AKR Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
See page G1

PROTECTION

SUSTAINABILITY

Resources, circular and well-being performances
See page J1





EcoFit™ Life Extension Essential
T°, Humidity,
See page F1

MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert

Low Voltage distribution

AKRT-50 Series with MasterPacT MTZ2

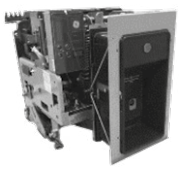
Original brand: General Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

AKRT Series
Circuit Breaker

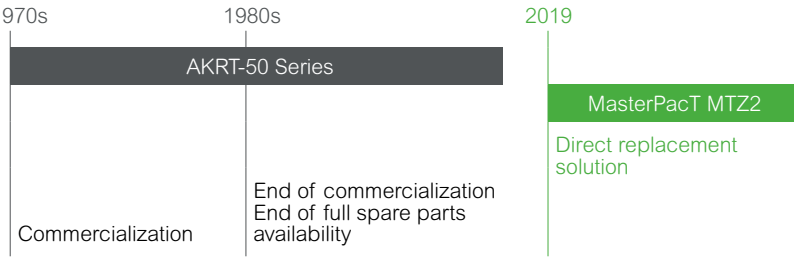
MasterPacT MTZ2
Circuit Breaker

US17021



US17018





Main technical characteristics

	AKRT-50 Series	MasterPacT MTZ2
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40° C	2000 A	2000 A
Ultimate breaking capacity (kA rms, 240-480-600 V AC 50/60 Hz) Icu	65-65-50 kA	65 kA

US17018



AKRT Series direct replacement solution

The direct replacement AKRT Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



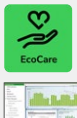
Protection relays
Micrologic, Arc flash
See page G1

PROTECTION



EcoFit™ Life Extension Essential
T°, Humidity,
See page F1

MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert

SUSTAINABILITY

Resources, circular and well-being performances
See page J1



Low Voltage distribution

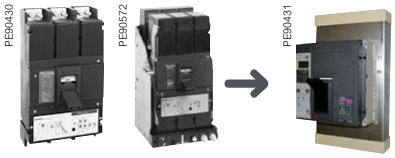
ComPacT C801-C1251 with ComPacT NS800-NS1250

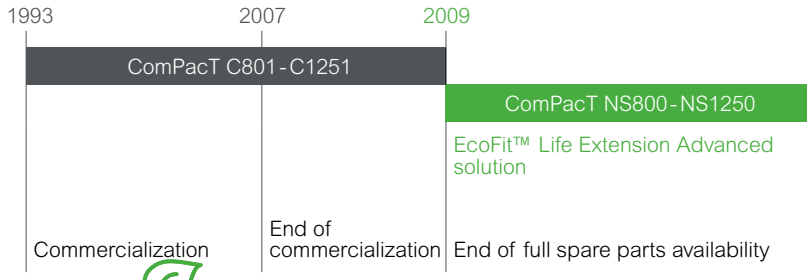
Original brand: Merlin Gerin

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

C801-C1251
Circuit Breaker

NS800-NS1250
Circuit Breaker





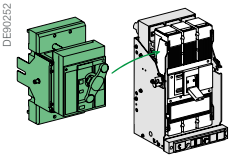
EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	ComPacT C801-C1251	ComPacT NS800-NS1250
Rated operational voltage (V AC 50/60 Hz) Ue	690 V	690 V
Rated current (A) In 40°C	800-1250 A	800-1250 A
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	50-150 kA	50-150 kA

ComPacT C801 - C1251 EcoFit™ Life Extension Advanced solution



Plug & Play

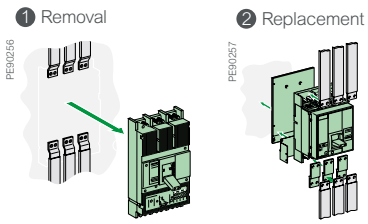
The EcoFit™ Life Extension Advanced ComPacT Plug & Play solution lets you retrofit the latest generation of ComPacT NS circuit breakers in the existing ComPacT C chassis with very short onsite servicing times.

Solution available for withdrawable type only, 3P & 4P, 800 A to 1250 A.

ComPacTkit

The EcoFit™ Life Extension AdvancedComPacTkit solution enables to benefit from all the enhanced features of ComPacT NS circuit breakers and accessories. It requires total shutdown of the installation to access the busbars.

Solution available for fixed type, 3P & 4P, 800 A to 1250 A.



Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
See page G1

PROTECTION

SUSTAINABILITY

Resources, circular and well-being performances
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EcoFit™ Life Extension Essential
T°, Humidity,
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MONITORING



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Software
Power Monitoring Expert

Low Voltage distribution

DA (DSA1-DNA1-DSA2-DNA2-DRA-DNAH) with MasterPacT MTZ2-MTZ3

Original brand: Merlin Gerin

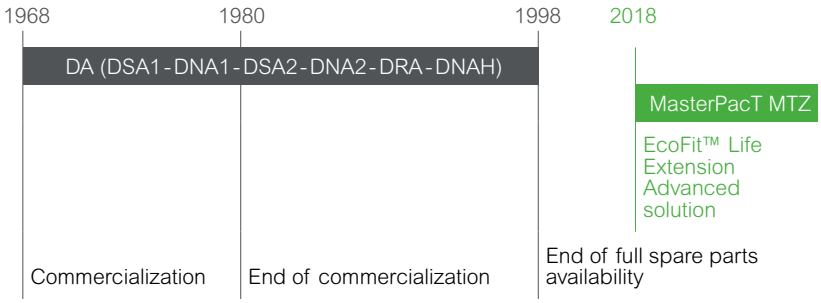
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

DA
Circuit Breaker



MasterPacT MTZ
Circuit Breaker





Main technical characteristics

	DA	MasterPacT MTZ2-MTZ3
Rated operational voltage (V AC 50/60 Hz) Ue	660 V	690 V
Rated current (A) In 40°C	630-6300 A	800-6300 A
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	42-100 kA	42-150 kA



DA EcoFit™ EcoFit™ Life Extension Advanced solution

The EcoFit™ EcoFit™ Life Extension Advanced DA solution enables to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.
It requires total shutdown of the installation to access the busbars. The kit solution (including circuit breaker) is available for fixed and withdrawable types, 3P & 4P, 630 to 6300 A.

Make the most of your equipment with available add-ons



Protection relays
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Low Voltage distribution

DS-206, DS-206H, DS-206E Series with MasterPacT MTZ2

Original brand: Cutler-Hammer, Westinghouse

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

DS Series
Circuit Breaker



MasterPacT MTZ2
Circuit Breaker





Main technical characteristics

	DS Series (DS-206, DS-206H, DS-206E)	MasterPacT MTZ2
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	800 A	800 A
Ultimate breaking capacity (kA rms, 600 V AC 50/60 Hz) Icu	50-42-42 kA	65 kA



DS Series direct replacement solution

The direct replacement DS Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
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Low Voltage distribution

DS-206, DS-206H, DS-206E Series with MasterPacT MTZ2

Original brand: Square D

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

DS Series
Circuit Breaker

MasterPacT MTZ2
Circuit Breaker







Main technical characteristics

	DS Series (DS-206, DS-206H, DS-206E)	MasterPacT MTZ2
Rated operational voltage (V AC 50/60 Hz) Ue	254 - 508 - 635 V	254 - 508 - 635 V
Rated current (A) In 40°C	800 A	800 A
Ultimate breaking capacity (kA rms, 600 V AC 50/60 Hz) Icu	50 - 42 - 42 kA	65 kA



DS Series direct replacement solution

The direct replacement DS Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
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Low Voltage distribution

DS-416, DS-416S, DS-416H Series with MasterPacT MTZ2

Original brand: Square D

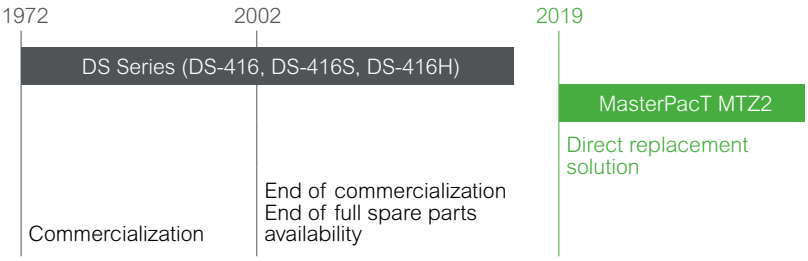
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

DS Series
Circuit Breaker



MasterPacT MTZ2
Circuit Breaker





Main technical characteristics

	DS Series (DS-416, DS-416S, DS-416H)	MasterPacT MTZ2
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	1600 A	1600 A
Ultimate breaking capacity (kA rms, 600 V AC 50/60 Hz) Icu	65-65-50 kA	65 kA



DS Series direct replacement solution

The direct replacement DS Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
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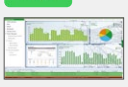


EcoFit™ Life Extension Essential
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Power Monitoring Expert

Low Voltage distribution

DS-420 Series with MasterPacT MTZ2

Original brand: Square D

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

DS Series
Circuit Breaker

US17028-1



MasterPacT MTZ2
Circuit Breaker

US17025





Main technical characteristics

	DS Series (DS-420)	MasterPacT MTZ2
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	2000 A	2000 A
Ultimate breaking capacity (kA rms, 240-480-600 V AC 50/60 Hz) Icu	65-65-50 kA	65 kA

US17025



DS Series direct replacement solution

The direct replacement DS Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
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Software
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Low Voltage distribution

H Series
with MasterPacT MTZ
Original brand: Federal Pioneer

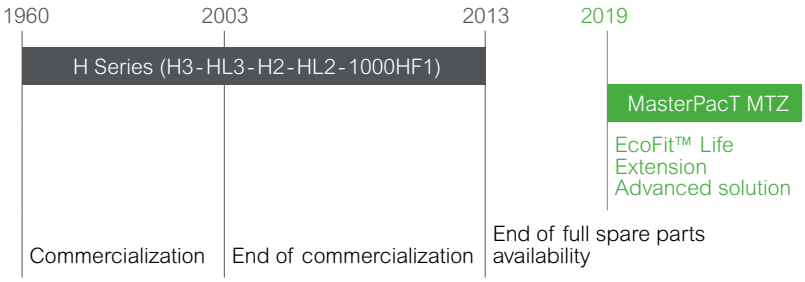
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

H Series
Circuit Breaker



MasterPacT MTZ
Circuit Breaker





Main technical characteristics

	H Series	MasterPacT MTZ1-MTZ2
Rated operational voltage (V AC 50/60 Hz) Ue	600 V	600 V
Rated current (A) In 40°C	600-4000 A	800-6000 A
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	30-200* kA	30-200* kA

* with fuse



H Series direct replacement solution

The direct replacement H Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
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Resources, circular and well-being performances
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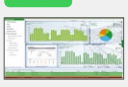


EcoFit™ Life Extension Essential
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Low Voltage distribution

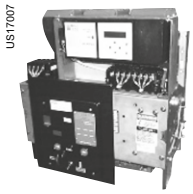
K-225, K-600, K-800 Series with MasterPacT MTZ1

Original brand: ITE, ABB, BBC

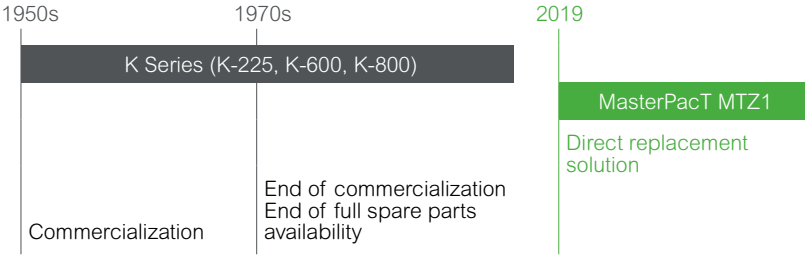
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

K Series
Circuit Breaker

MasterPacT MTZ1
Circuit Breaker







Main technical characteristics

	K Series (K-225, K-600, K-800)	MasterPacT MTZ1
Rated operational voltage (V AC 50/60 Hz) Ue	254 - 508 V	254 - 508 V
Rated current (A) In 40°C	225, 600 - 800 A	225, 600 - 800 A
Ultimate breaking capacity (kA rms, 600 V AC 50/60 Hz) Icu	25 - 42 kA	42 kA



K Series direct replacement solution

The direct replacement K Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
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PROTECTION

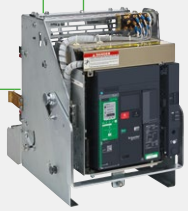
SUSTAINABILITY

Resources, circular and well-being performances
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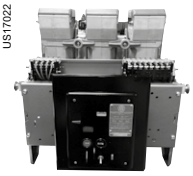
Low Voltage distribution

K-1600 Series with MasterPacT MTZ2

Original brand: ITE, ABB, BBC

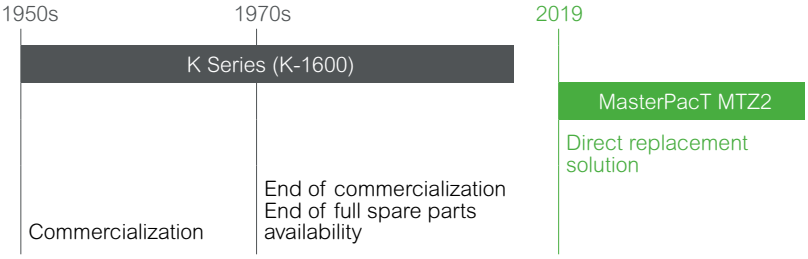
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

K Series
Circuit Breaker



MasterPacT MTZ2
Circuit Breaker





Main technical characteristics

	K Series (K-1600)	MasterPacT MTZ2
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	1600 A	1600 A
Ultimate breaking capacity (kA rms, 600 V AC 50/60 Hz) Icu	65-50-42 kA	65 kA



K Series direct replacement solution

The direct replacement K Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
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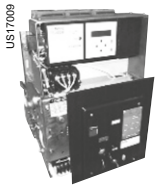
Low Voltage distribution

KDON-600, KDON-800, KDON-1600 Series with MasterPacT MTZ1

Original brand: ITE, ABB, BBC

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

KDON Series
Circuit Breaker



MasterPacT MTZ1
Circuit Breaker





Main technical characteristics

	KDON Series (KDON-600, KDON-800, KDON-1600)	MasterPacT MTZ1
Rated operational voltage (V AC 50/60 Hz) Ue	254 - 508 - 635 V	254 - 508 - 635 V
Rated current (A) In 40°C	600 - 800, 1600 A	600 - 800, 1600 A
Ultimate breaking capacity (kA rms, 600 V AC 50/60 Hz) Icu	200 kA*	200 kA*

* with fuses



KDON Series direct replacement solution

The direct replacement KDON Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
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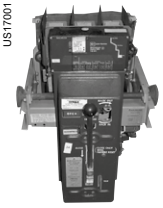
Low Voltage distribution

LA-600, LA-800 Series with MasterPacT MTZ1

Original brand: Allis-Chalmers

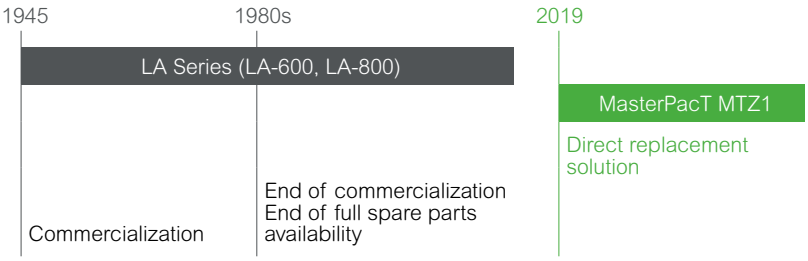
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

LA Series
Circuit Breaker



MasterPacT MTZ1
Circuit Breaker





Main technical characteristics

	LA Series (LA-600, LA-800)	MasterPacT MTZ1
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	600-800 A	600-800 A
Ultimate breaking capacity (kA rms, 600 V AC 50/60 Hz) Icu	25-42 kA	42 kA



LA Series direct replacement solution

The direct replacement LA Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
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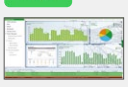


EcoFit™ Life Extension Essential
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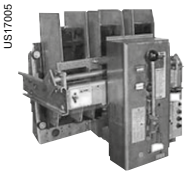
Low Voltage distribution

LA-1600 Series with MasterPacT MTZ2

Original brand: Allis-Chalmers

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

LA Series
Circuit Breaker



MasterPacT MTZ2
Circuit Breaker





Main technical characteristics

	LA Series (LA-1600)	MasterPacT MTZ2
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	1600 A	1600 A
Ultimate breaking capacity (kA rms, 600 V AC 50/60 Hz) Icu	65 kA	65 kA



LA Series direct replacement solution

The direct replacement LA Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
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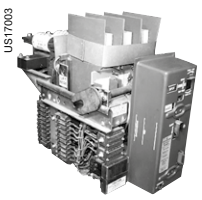
Low Voltage distribution

LAF-600, LAF-800 Series with MasterPacT MTZ1

Original brand: Allis-Chalmers

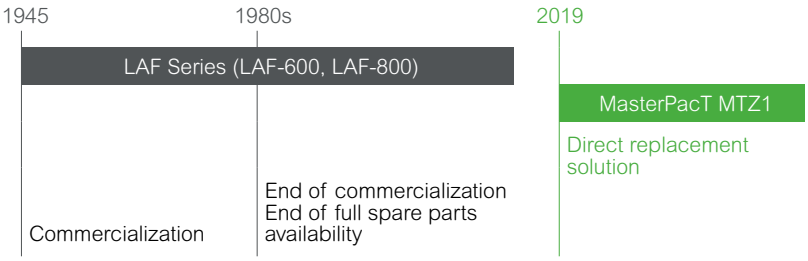
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

LA Series
Circuit Breaker



MasterPacT MTZ1
Circuit Breaker





Main technical characteristics

	LAF Series (LAF-600, LAF-800)	MasterPacT MTZ1
Rated operational voltage (V AC 50/60 Hz) Ue	254-508-635 V	254-508-635 V
Rated current (A) In 40°C	600-800 A	600-800 A
Ultimate breaking capacity (kA rms, 600 V AC 50/60 Hz) Icu	200 kA*	200 kA*

* with fuses



LAF Series direct replacement solution

The direct replacement LAF Series solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
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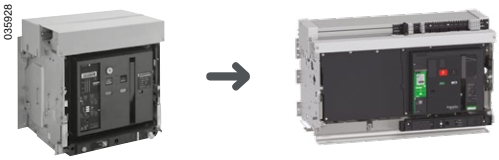
MasterPacT M08-M63 with MasterPacT MTZ2 08-MTZ3 63

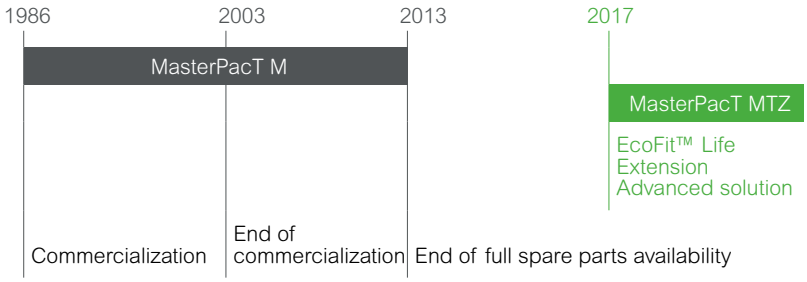
Original brand: Merlin Gerin

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

MasterPacT M
Circuit Breaker

MasterPacT MTZ2
Circuit Breaker





EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	MasterPacT M08-M63	MasterPacT MTZ
Rated operational voltage (V AC 50/60 Hz) Ue	690 V	690 V
Rated current (A) In 40°C	800-6300 A	800-6300 A
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	40-150 kA	42-150 kA



1 Removal



2 Replacement



MasterPacT M EcoFit™ Life Extension Advanced solution*

Plug & Play

The EcoFit™ Life Extension Advanced MasterPacT Plug & Play solution allows you to retrofit the latest generation of MasterPacT MTZ circuit breakers in the existing MasterPacT M chassis.

Solution available for withdrawable type only, 3P & 4P, 800 A to 3200 A.

Masterkit

The EcoFit™ Life Extension Advanced Masterkit solution enables to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories without modifying the busbars. It requires total shutdown of the installation to access the busbars.

Solution available for fixed and withdrawable types, 3P & 4P, 800 A to 6300 A.

*We have Circular MTZ Breaker option for this EcoFit Offer, Please contact local sales for further details

Make the most of your equipment with available add-ons



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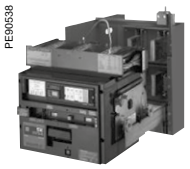


Software
Power Monitoring Expert

Low Voltage distribution
SE
with MasterPacT MTZ2
Original brand: Square D, Westinghouse

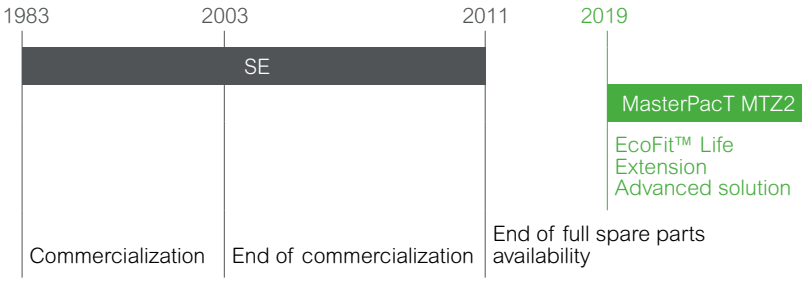
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

SE
Circuit Breaker



MasterPacT MTZ2
Circuit Breaker





Main technical characteristics

	SE	MasterPacT MTZ2
Rated operational voltage (V AC 50/60 Hz) Ue	600 V	600 V
Rated current (A) In 40°C	1250 - 3000 A	1250 - 3000 A
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	100 kA	85 kA



SE direct replacement solution

The direct replacement SE solutions draw-out types enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
See page G1

PROTECTION

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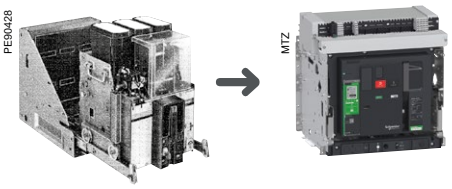
Low Voltage distribution

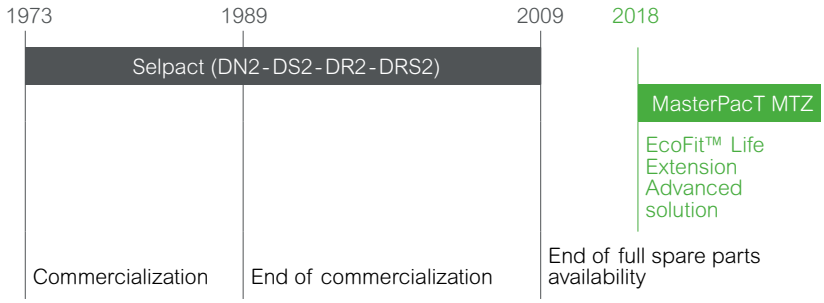
SelPact
with MasterPacT MTZ2-MTZ3
Original brand: Merlin Gerin

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

Selpact
Circuit Breaker

MasterPacT MTZ
Circuit Breaker





Main technical characteristics

	Selpact	MasterPacT MTZ
Rated operational voltage (V AC 50/60 Hz) Ue	660 V	690 V
Rated current (A) In 40°C	630-3200 A	800-3200 A
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	42-100 kA	42-150 kA



Selpact EcoFit™ Life Extension Advanced solution

The EcoFit™ Life Extension Advanced Selpact solutions enable to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories.

Plug & Play

The Plug&Play solution is available for withdrawable type only, 3P & 4P, 630 to 1600 A.

Kit

The kit solution (including circuit breaker) is available for fixed and withdrawable types, 3P & 4P, 630 to 3200 A.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
See page G1

PROTECTION

SUSTAINABILITY

Resources, circular and well-being performances
See page J1



EcoFit™ Life Extension Essential
T°, Humidity,
See page F1

MONITORING





Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert

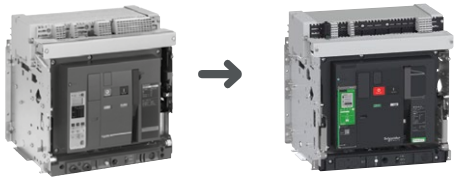
Low Voltage distribution

MasterPacT NT-NW with MasterPacT MTZ

Original brand: Schneider Electric

MasterPacT NT/NW Circuit Breaker

MasterPacT MTZ Circuit Breaker

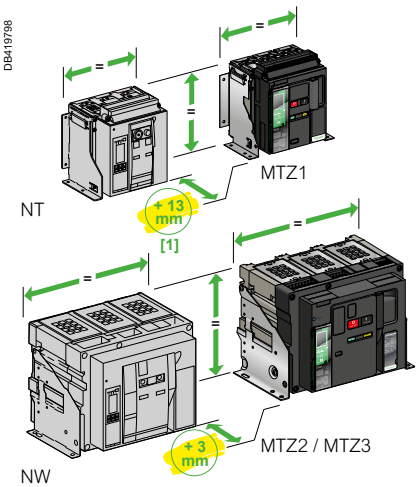


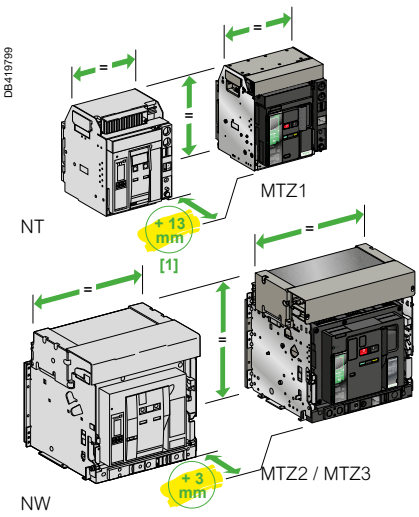
EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	MasterPacT NT-NW	MasterPacT MTZ
Rated operational voltage (V AC 50/60 Hz) Ue	690 V	690 V
Rated current (A) In 40°C	600-6300 A	600-6300 A
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	42-150 kA	42-150 kA





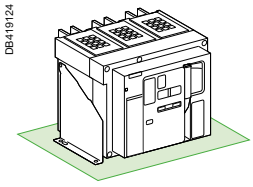
Dimensions and mounting

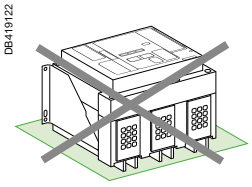
Fixed version

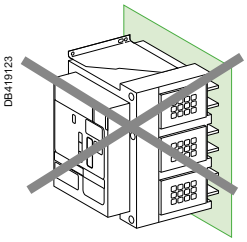
Two identical frame sizes using the same mounting system as the MasterPacT NT/NW range.

Replacement/extension in an existing switchboard:

- MasterPacT NT/NW replaced by a MasterPacT MTZ identical in size
- same connection points
- same fixing points.





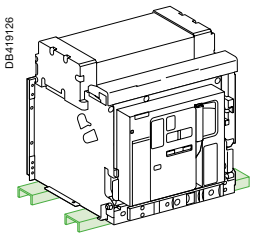


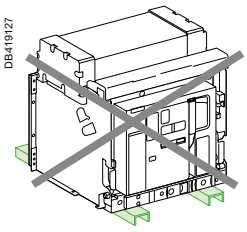
Drawout version

Two identical frame sizes using the same mounting system as the MasterPacT NT/NW range.

Replacement/extension in an existing switchboard:

- MasterPacT NT/NW replaced by a MasterPacT MTZ identical in size
- same connection points
- same fixing points.

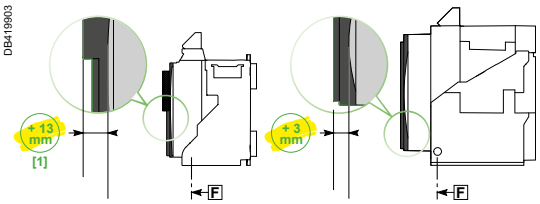




Low Voltage distribution

MasterPacT NT-NW with MasterPacT MTZ

Original brand: Schneider Electric



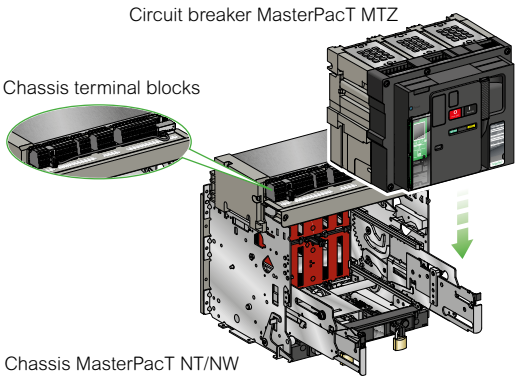
MasterPacT MTZ1 MasterPacT MTZ2 / MTZ3

[1] the size of MasterPacT MTZ1 is 13 mm, including spring charging handle deeper than MasterPacT NT due to the bigger size of the new front cover. For MasterPacT MTZ2/3 the difference is only 3 mm.

Dimensions and mounting

Fixed and drawout version

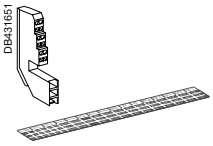
The size of MasterPacT MTZ1 is 13 mm deeper than MasterPacT NT due to the bigger size of the new front cover.
For MasterPacT MTZ2/3 the difference is only 3 mm.
Integration of MasterPacT MTZ in Prisma, Blokset or Okken cubicles does not require design or parts modifications.



Compatibility from MasterPacT NT/NW to MasterPacT MTZ

- MasterPacT NT/NW chassis can be used with MasterPacT MTZ, with wiring modification on the chassis terminal blocks. Auxiliary circuits wiring on the chassis terminals blocks has to be modified according to MasterPacT MTZ drawout instruction sheet (ref. NVE35470-00) or MasterPacT MTZ2/3 and MasterPacT MTZ1 user guides (ref. DOCA0101EN-00).
- MasterPacT MTZ chassis can not be used with MasterPacT NT/NW.

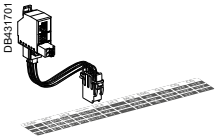
Specific attention of the MasterPacT NT/NW chassis condition is required prior to procced with breaker replacement.



NT chassis retrofit

NT chassis retrofit to MTZ1

Kit for retrofitting an NW chassis for MTZ1 moving part: réf. LV850066SP.



NW chassis retrofit

NW chassis retrofit to MTZ2/MTZ3

Kit for retrofitting an NW chassis for MTZ2/3 moving part: réf. LV850065SP.

For more information refer to the MasterPacT MTZ Substitution and technical guide reference LVPED516027EN.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
See page G1

PROTECTION

SUSTAINABILITY

Resources, circular and well-being performances
See page J1



EcoFit™ Life Extension Essential
T°, Humidity,
See page F1

MONITORING



Services
EcoCare Service Plan with Membership

Software
Power Monitoring Expert

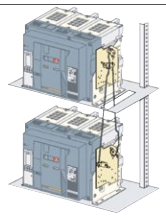
Low Voltage distribution

LV Circuit Breaker - Associated offers

Source-changeover systems

Available for DA, Selpact and MasterPacT M EcoFit™ Life Extension Advanced solutions using MasterPacT NT/NW

Mechanical interlocking (2 types)	Automatic controllers	
Using connecting rods or using cables	IVE: Electrical interlocking	BA or UA automatic controllers





Measurements - Diagnostics & Maintenance - Protections - Communication

Available for EcoFit™ Life Extension Advanced solutions using MasterPacT MTZ









Micrologic	2.0X	5.0X	6.0X	7.0X
Functions	Long time + instantaneous	Long time + short time + instantaneous	Long time + short time + instantaneous + earth fault	Long time + short time + instantaneous + earth leakage up to 3200 A

Measurement: Energy management is the challenge of present & future generations.
To meet this requirement Micrologic X incorporates all the measuring functions of a power meter including Energy Class 1 accuracy 3rd party certified.

Diagnostics & Maintenance: Optimal continuity of services as well as extended life of equipment is one of customers main concerns.
For that purpose Micrologic X integrates new extended diagnosis and assistance to maintenance.

Protection: Improvement of the reliability of Micrologic X, dual settings and additional facilities increase the performance and the flexibility of low voltage systems of protection.

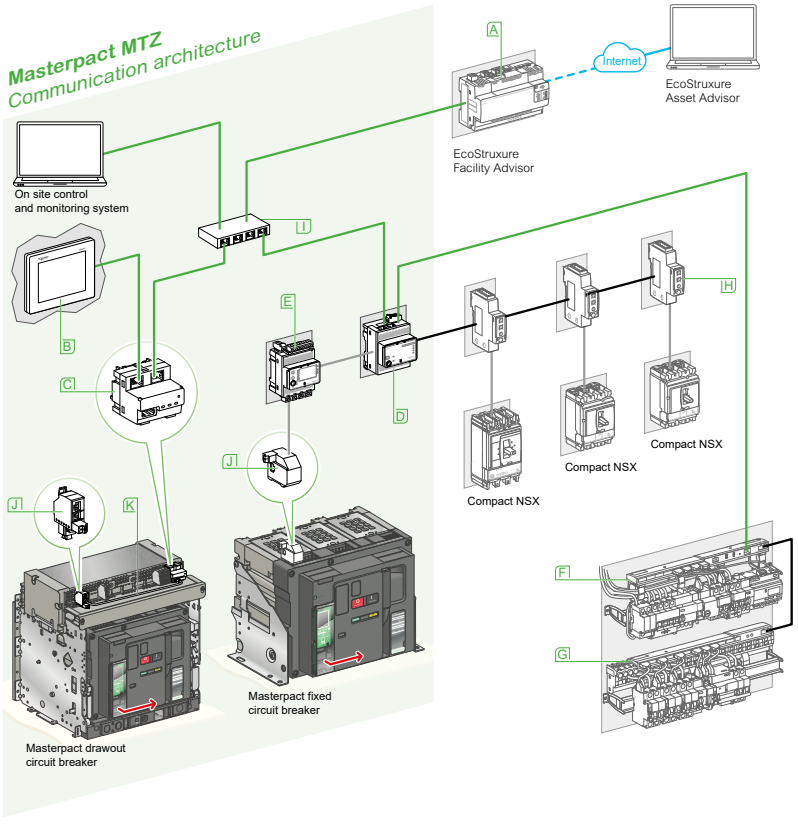
Communication: It is now usual to make available most of the information processed by a Protection Control Unit, locally for network operation and maintenance, and remotely for higher functions of control, monitoring, energy efficiency and assets management.
To comply with this requirement Micrologic X, incorporates several channels of communication, including Ethernet and wireless communication facilities.

Smartpanel integration, architecture and systems

Available for EcoFit™ Life Extension Advanced solutions using MasterPacT MTZ

Smart Panels digitized by Enerlin'X

example of digitized switchboard architecture



- Ethernet
- Modbus SL
- ULP
- Wireless proprietary connectivity
- Internet

ULP is a fast communication link dedicated to circuit breaker monitoring and control.

- A Com'X
- B FDM128
- C EIFE
- D IFE
- E I/O
- F Acti9 Smartlink Ethernet
- G Acti9 Smartlink Modbus
- H IFM
- I Switch
- J ULP port
- K ULP cord

Low Voltage distribution

RL-800, RL-1600, RL-2000 Series with MasterPacT MTZ

Original brand: Siemens / Allis - Chalmers

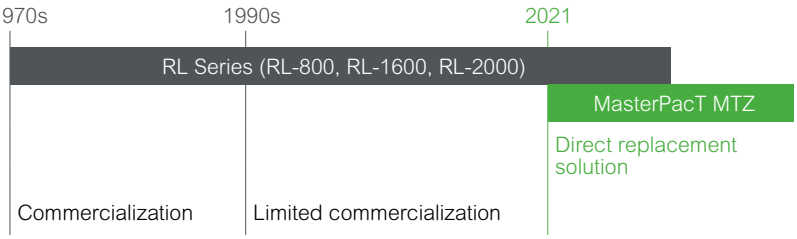
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

RL Series
Circuit Breaker



MasterPacT MTZ
Circuit Breaker





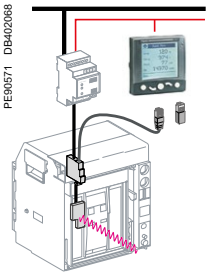
Main technical characteristics

	RL Series (RL-800, RL-1600, RL-2000)	MasterPacT MTZ
Rated operational voltage (V AC 50/60 Hz) Ue	254 - 508 - 635 V	254 - 508 - 635 V
Rated current (A) In 40°C	800 A, 1600 A, 2000 A	2000 A
Ultimate breaking capacity (kA rms, 600 V AC 50/60 Hz) Icu	42/42/42 kA (Inst 800 A), 65/65/65 kA (Inst)	65 kA (Inst)



RL Series direct replacement solution

The direct replacement RL Series solutions draw-out types enable to benefit from all the enhanced features of MasterPact MTZ circuit breakers and accessories.



Active Energy Management™ program that includes an energy metering system

- Identify the device
- Indicate status conditions
- Control the device (with communication auxiliaries)
- Setting of the protection and alarm functions

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
See page G1

PROTECTION

SUSTAINABILITY

Resources, circular and well-being performances
See page J1



EcoFit™ Life Extension Essential
T°, Humidity,
See page F1

MONITORING





Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert

Low Voltage distribution

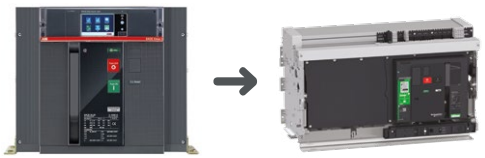
Emax to MasterPact MTZ1 08 – MTZ2 32

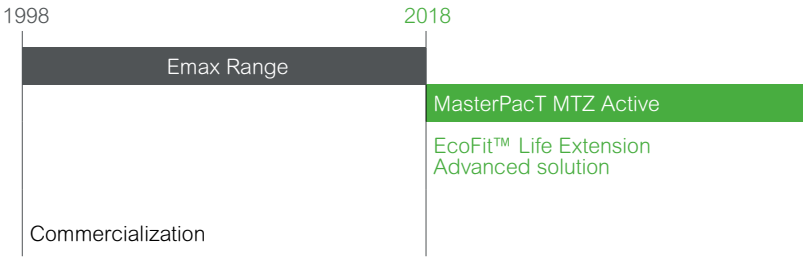
Original brand: ABB

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

ABB Emax Circuit Breaker

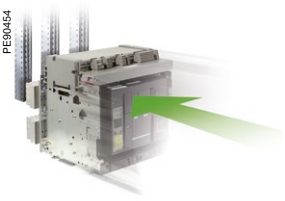
MasterPacT MTZ Circuit Breaker





Main technical characteristics

	Emax range	MasterPacT MTZ Active
Rated Operational Voltage	690 V	690 V
Rated current (A) In 40°C	800 - 3200 A	800 - 3200 A
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	40-100 kA	40-100 kA



Masterkit

The EcoFit™ Life Extension Advanced Masterkit solution enables to benefit from all the enhanced features of MasterPacT MTZ circuit breakers and accessories without modifying the busbars. It requires total shutdown of the installation to access the busbars.

Solution available for withdrawable types, 3P & 4P, 800A to 3200A.

Make the most of your equipment with available add-ons



Protection relays
Micrologic, Arc flash
See page G1

PROTECTION

SUSTAINABILITY

Resources, circular and well-being performances
See page J1



EcoFit™ Life Extension Essential
T°, Humidity,
See page F1

MONITORING



Services
EcoCare Service Plan with Membership



Software
Power Monitoring Expert

Low Voltage distribution

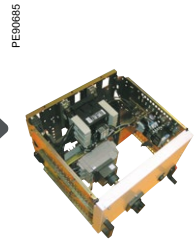
T140 drawers
with T140 drawers
Original brand: Merlin Gerin

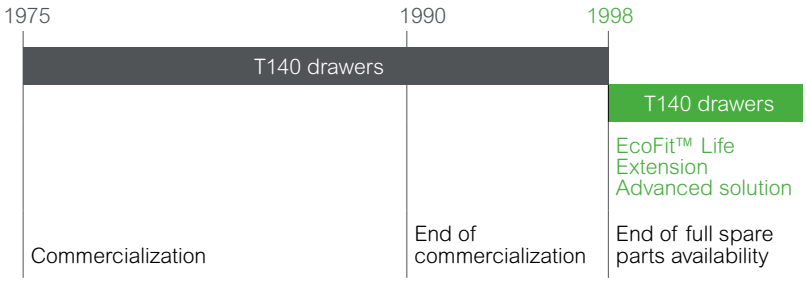
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

T140 drawers



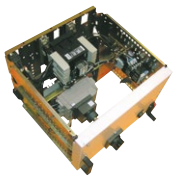
T140 drawers





Main technical characteristics

	T140 drawers	T140 drawers
Rated operational voltage (V AC 50/60 Hz) Ue	440 V	440 V
Rated current (A) In 40°C	125 - 625 A	125 - 625 A
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	1 to 6	1 to 6



T140 drawers EcoFit™ Life Extension Advanced solution

The EcoFit™ Life Extension Advanced T140 drawer solution enables to benefit from all the enhanced features of latest technology devices.

The drawer solutions are suitable for manual or electrical operations.



T140 drawers EcoFit™ Life Extension Advanced solution - Drawer components

- Electrical distribution - Functional units (NSX range with Micrologic)



- Motor control command and protections - Functional units.



- Control command auxiliaries for all types of drawers.

Low Voltage distribution

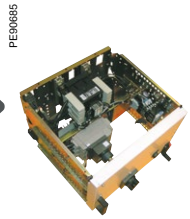
MB400 drawers
with MB400 drawers
Original brand: Merlin Gerin

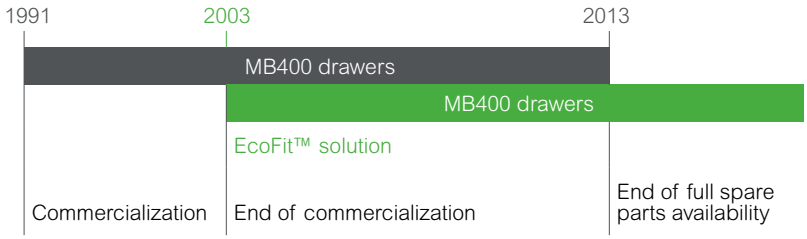
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

MB400 drawers



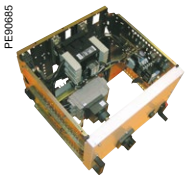
MB400 drawers





Main technical characteristics

	MB400 drawers	MB400 drawers
Rated operational voltage (V AC 50/60 Hz) Ue	440 V	440 V
Rated current (A) In 40°C	125 - 625 A	125 - 625 A
Ultimate breaking capacity (kA rms, 220/415 V AC 50/60 Hz) Icu	1 to 6	1 to 6



MB400 drawers EcoFit™ Life Extension Advanced solution

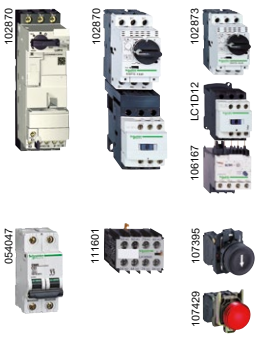
The EcoFit™ Life Extension Advanced MB400 drawer solution enables to benefit from all the enhanced features of latest technology devices.

The drawer solutions are suitable for manual or electrical operations.



MB400 drawers EcoFit™ Life Extension Advanced solution - Drawer components

- Electrical distribution - Functional units (NSX range with Micrologic)



- Motor control command and protections - Functional units.
- Control command auxiliaries for all types of drawers.

Low Voltage distribution
LV Drawers - Associated offers

Drawer components: Electrical distribution - Functional units (NSX range)

Available for EcoFit™ solutions using MasterPacT NT/NW and ComPacT NS









Micrologic	2.2 or 2.3	5.2 or 5.3	6.2 or 6.3
Type		A - E	A - E
Functions	LSI protection	LSI protection Ammeter Energy meter	LSI protection Ammeter Energy meter

A: Current measurements, fault indications, display and current maximeter.
Specificities: 6.0 provides earth fault protection (residual or Source Ground Return); 7.0 provides earth leakage protection.
E: A + Instantaneous measurement of power and energy without earth leakage protection.

Drawer components: Motor control command and protections - Functional units

Available for EcoFit™ Life Extension Advanced solutions using MasterPacT NT/NW and ComPacT NS

1 component motor feeder	2 components motor feeder	3 components motor feeder
		
Circuit breaker - Contactor combination	Thermomagnetic circuit breaker + Contactor	Thermomagnetic circuit breaker or switch-disconnector fuse + Contactor + Thermal protection

Drawer components: Control command auxiliaries for all types of drawers

Available for EcoFit™ Life Extension Advanced solutions using MasterPacT NT/NW and ComPacT NS

Miniature circuit-breaker Protection auxiliary circuit	Auxiliary relays
	
Ground fault protection	**Push buttons and lights**
	

Specific spare parts: for any spare parts request for the fixe part, please contact your local correspondant.

Low Voltage distribution

ComPacT Plug & Play - Order Form

GCR_PP_NS_CB or GCR_PP_NS_SD

Order N°

Delivery address

Customer's name

To indicate your choices, check the applicable square boxes and enter the appropriate information in the rectangles

Circuit breaker or switch-disconnector

NS800 to NS1250

Rating	**A**	
Circuit breaker	**N, H**	
Switch-disconnector	**NA**	
Number of poles	**3 or 4**	
Device	**Fixed**	X

Micrologic control unit

Basic protection	2.0		5.0		6.0*			
A - Ammeter	2.0		5.0		6.0*		7.0*	
E - Energy	2.0		5.0		6.0*			
P - Power			5.0		6.0*		7.0*	

* For residual or source ground return earth fault protection with Micrologic 6 and earth leakage protection with Micrologic 7, please contact your Country Account Manager

AD - External power-supply module V

LR - Long-time rating plug

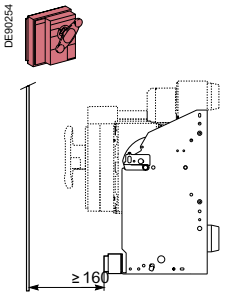
- Standard 0.4 to 1 Ir
- Low setting 0.4 to 0.8 Ir
- High setting 0.8 to 1 Ir
- LT off

Communication

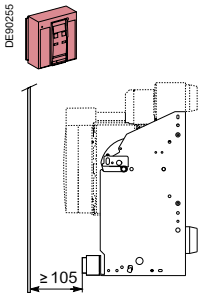
COM module: contact your country Account manager

Micrologic control unit functions:

- 2.0: basic protection (long time+ inst.)
- 5.0: selective protection (long time + short time + inst.)
- 6.0: selective + earth-fault protection (long time + short time + inst. + earth-fault)
- 7.0: selective + earth-leakage protection (long time + short time + inst. + earth-leakage)



If ≤ 160: door adaptation necessary



If ≤ 105: door adaptation necessary

Plug & Play solution

Kit Plug & Play C801/1251 Qty

Options

Door option kit for electric mechanism or direct manual mechanism (include transparent cover ref 33859) Qty

Door option kit for prolongated manual mechanism Qty

Indication contacts

NS800 to NS1250

SD trip indication (maximum 1) (only for manually operated devices)
6 A-240 V AC Qty Low level Qty

SDE "fault-trip" indication (maximum 1)
(SDE integrated in electrically operated devices)
6 A-240 V AC Qty Low level Qty

OF ON/OFF indication contacts (maximum 3)
6 A-240 V AC Qty Low level Qty

Remote operation

Electrical operation	Standard					
	Power supply	AC		DC		V
Voltage releases	MX	AC		DC		V
	MN	AC		DC		V
	MN delay unit			Adjustable		Non-adjustable

Rotary handles for NS800/1250 fixed device

Direct	Black		Red on yellow front
			CNOMO conversion access
Extended	Black		Red on yellow front

Locking (compulsory information)

Locking delivered and mounting on ECOFIT: 2 identical locks + 1 key for tripping withdrawal - specify Ronis or Profalux

Rotary handle using a keylock: Ronis Profalux

For electrically operated devices:
VBP - ON/OFF pushbutton locking (by transparent cover + padlocks)
OFF position locking. **VSPO** - by keylocks:
2 identical keylocks, 1 key Profalux Ronis

Accessories

CDM - mechanical operation counter (not compatible with rotary handle)

Test kits Mini test kit

Spare parts for C801/C1251 chassis

2 clusters	Ref. EF533706	Qty
Set of 5 fixed female connector	Ref. EF533707	Qty
Lockable bolt on fixed chassis	Ref. EF533708	Qty

Note:

- Pre-tripping with keylock locking (included as standard).
- If NS electrically operated: only SDE available/SD not available.
- Discrimination & cascading: refer to http://hto.power.schneider-electric.com/
- Solution not applicable for communication.
- Solution not applicable for control type toggle.
- CTs ComPacT C not compatible with ComPacT NS.
- ComPacT Plug & Play equipped with C4 type lock (MV/LV/transformer interlocking.
- ComPacT Plug & Play can not be used for ComPacT C801/1251 drawout breaker on cradle (with RED operating handle)
- If ComPacT C behind door, pay attention to minimal distance between door and CB.
  - In case of manual ComPacT NS, the door kit is compulsory for X < 160 mm.
  - In case of motorized ComPacT NS, the door kit is compulsory for X < 105 mm.

Low Voltage distribution

ComPacTkit - Order Form

MPA5099C or MPA5118C

Order N°	
Delivery address	
Customer's name	

To indicate your choices, check the applicable square boxes and enter the appropriate information in the rectangles

Circuit breaker or switch-disconnector

NS800 to NS1250

Rating	**A**	
Circuit breaker	**N, H**	
Switch-disconnector	**NA**	
Number of poles	**3 or 4**	
Device	**Fixed**	**X**

Micrologic control unit

Basic protection	2.0		5.0		6.0*			
A - Ammeter	2.0		5.0		6.0*		7.0*	
E - Energy	2.0		5.0		6.0*			
P - Power			5.0		6.0*		7.0*	

* For residual or source ground return earth fault protection with Micrologic 6 and earth leakage protection with Micrologic 7, please contact your Country Account Manager

AD - External power-supply module	V	
LR - Long-time rating plug	Standard 0.4 to 1 Ir	
	Low setting 0.4 to 0.8 Ir	
	High setting 0.8 to 1 Ir	
	LT off	

Communication

COM module: contact your country Account manager

Micrologic control unit functions:

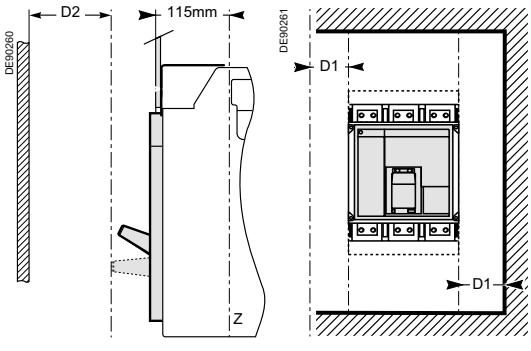
- 2.0: basic protection (long time+ inst.)
- 5.0: selective protection (long time + short time + inst.)
- 6.0: selective + earth-fault protection (long time + short time + inst. + earth-fault)
- 7.0: selective + earth-leakage protection (long time + short time + inst. + earth-leakage)

NS800/1250 connection

Front connections	Top & Bottom	
Horizontal rear connections	Top & Bottom	
Vertical rear connections	Top & Bottom	

Note:

Check dimensions according to the below table, i.e. dimensions are the necessary space to be added to the existing C801/1251 to allow installation of the ComPacT kit solutions.



Axis Z is the back plane of the ComPacT C 3-pole device.

C801/1251 ComPacTkit solution (references not adapted, supplied as loose components)

Front connection (Top & Bottom)	3P ref. EF593816	Qty	4P ref. EF593819	Qty
Rear horizontal connection (Top & Bottom)	3P ref. EF593817	Qty	4P ref. EF593820	Qty
Rear vertical connection (Top & Bottom)	3P ref. EF593818	Qty	4P ref. EF593821	Qty

Indication contacts

NS800 to NS1250

SD trip indication (maximum 1) (only for manually operated devices)
6A-240VAC Qty ____ Low level Qty ____

SDE "fault-trip" indication (maximum 1) (SDE integrated in electrically operated devices)
6A-240VAC Qty ____ Low level Qty ____

OF ON/OFF indication contacts (maximum 3)
6A-240VAC Qty ____ Low level Qty ____

Remote operation

Electrical operation	Standard					
	Power supply	AC		DC		V
Voltage releases	MX	AC		DC		V
	MN	AC		DC		V
	MN delay unit		Adjustable		Non-adjustable	

Rotary handles for NS800/1250 fixed device

Direct	Black		Red on yellow front

Locking

Toggle (1 to 3 padlocks)		Removable system		Fixed system
Rotary handle using a keylock	OFF position			
	Ronis 1351B.500		Profalux KS5 B24 D4Z	
			Keylock kit (without keylock)	
For electrically operated devices	**VBP** - ON/OFF pushbutton locking (by transparent cover + padlocks)			
	OFF position locking:			
	VCPO - by padlocks			
	VSPO - by keylocks:			
	Keylock kit (w/o keylock)	Profalux		Ronis
	1 keylock	Profalux		Ronis
	2 identical keylocks, 1 key	Profalux		Ronis

Accessories

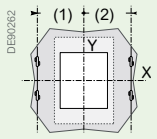
CDM - mechanical operation counter

Test kits — Mini test kit

C801/1251 ComPacTkit solution - Door option kits (operation through door)(1)

Front connection electrical operation	3P ref. EF593822	Qty	4P ref. EF593826	Qty
Rear connection electrical operation	3P ref. EF593823	Qty	4P ref. EF593827	Qty
Front connection toggle or direct rotary handle	3P ref. EF593824	Qty	4P ref. EF593828	Qty
Rear connection toggle or direct rotary handle	3P ref. EF593825	Qty	4P ref. EF593829	Qty

(1) Restriction in case of operation through door



Axis X &Y are the symmetry planes of the ComPacT C 3-pole device. If door opens to the left: not suitable for rotary handle operation.
Axis Z is the back plane of the ComPacT C 3-pole device. Distance between axis Z and door is 115mm.
(1) 194 mini (3P)-264 mini (4P)/(2) 194 mini

		Manual. by direct rotary handle	Manual. by short toogle	Manual. by long toogle	Electrically by Type T	Electrically by Type TS
Fixed front connection	**D1**	+ 0mm	+ 0mm	+ 0mm	+ 0mm	+ 0mm
	D2	+ 0mm	+ 45mm	+ 15mm	+ 0mm	+ 30mm
Fixed horizontal rear connection	**D1**	+ 15mm	+ 15mm	+ 15mm	+ 15mm	+ 15mm
	D2	+ 70mm	+ 110mm	+ 80mm	+ 50mm	+ 95mm
Fixed vertical rear connection	**D1**	+ 15mm	+ 15mm	+ 15mm	+ 15mm	+ 15mm
	D2	+ 70mm	+ 110mm	+ 80mm	+ 50mm	+ 95mm

Low Voltage distribution

MasterPacT M Plug & Play - Order Form

GCR_PP_MTZ2_CB

To indicate your choices, check the applicable square boxes and enter the appropriate information in the rectangles

Quantity

Number of Devices

* The quantity specified here will not affect the quantity of spare parts.

Basic Configuration

MasterPacT type	P&P MTZ2						
Rating (3200 A max)	A						
Sensor rating	A						
Circuit breaker	N1, H1, H2						
Switch-disconnector	Not available with MasterPacT MTZ, use P&P with MasterPacT NW						
Micrologic X	2.0		5.0		6.0		7.0
Number of poles	3		4(1)				

(1) 4P = neutral on left. For neutral on right side, consult France Grenoble EcoFit™ Center

Type of equipment — Drawout without chassis (moving part only)

Communication

Consult Schneider Electric specialist to support and upgrade current installation with latest communicating solution

Operation Efficiency - Signaling

OF - ON/OFF indication contacts
4 OF 6 A - 240 V AC (10 A - 240 V AC and low level for NW) is supplied as standard
Note: MasterPacT Plug&Play is not suitable in case MasterPacT M chassis is equipped with a test position switch (CT)

Additional — 1 block of 4 OF for MTZ2 — Qty
Max. 2 Blocks

SDE - "fault-trip" indication contact
1 SDE 6 A - 240 V AC is supplied as standard

Additional	1 SDE 6 A - 240 V AC		1 SDE low level
Programmable contacts	2 M2C contacts		

PF - "ready to close" contact
6 A - 240 V AC — Low level

CDM - mechanical operation counter MTZ2

Commomnly used spare parts

If you would like to order some spare parts, kindly indicate here. Please note that spare parts will be delivered spaperately.

Mobile powerpact by APC	Qty
USB CABLE	Qty
Transparent cover for micrologic	Qty
Mini test kit	Qty

Operation Efficiency - Controlling

Remote control	MCH - gear motor	V	
	XF - closing voltage release	V	
	MX - opening voltage release	V	
	MN - undervoltage release	V	
	R - delay unit (non-adjustable)	V	
	Rr - adjustable delay unit	V	
	2nd MX - opening voltage release	V	
	2nd MN - undervoltage release	V	
	R - delay unit (non-adjustable) for 2nd MN		
	Rr - adjustable delay unit for 2nd MN		
Remote reset after tripping	RES - electrical reset option	V	
	RAR - automatic reset option		
Electrical Closing	BPFE - electrical closing pushbutton		

People and property safety - Locking and interlocking

VBP - ON/OFF pushbutton no access (by transparent cover + padlocks)

OFF position locking:
VCPO - by padlocks

VSPO - by keylocks

Keylock kit (without keylock)	Profalux		Ronis	
	Kirk		Castell	
1 keylock	Profalux		Ronis	
2 identical keylocks, 1 key	Profalux		Ronis	
2 keylocks, different keys (MTZ2/3)	Profalux		Ronis	

Mechanical interlock (source-changeover systems)
Interlocking axle and installation kit (ref: EF548613, one per P&P)
Mismatch protection (ref EF547056)

People and property safety - Circuit protection

TCE - external sensor (CT) for neutral
Single sensor & Single wire (MTZ 1/2/3)
Rectangular sensor - for earth-leakage protection — MTZ2/3 (470 x 160 mm)

Power availability and realiability

VPS - voltage power supply
AD - external power-supply module — V

Digital Module

Energy per phase		Wave form capture	
Circuit Breaker restoration		Circuit Breaker reclosing	

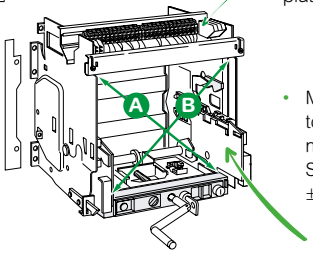
EcoFit™ Plug & Play solution requires MasterPacT M chassis in full working order

If the chassis is bent or damaged, a Plug & Play solution is not possible and the Masterkit solution must be used.
Note: Refer to MasterPacT Plug & Play user manual for more information.

Before ordering a Plug & Play solution, check the condition of the chassis as indicated below

(! Danger: electrical equipment should be installed, operated, services and maintained only by qualified personel)

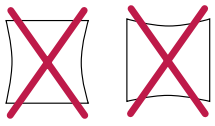
DE90248



Auxiliary wiring connector plate

- Measure the diagonals to make sure the chassis is not distorted or warped. Squareness chassis ± 3 mm (A = B).

DE90248



- Check visually for any deformed parts (e.g. inward or outward bulges).

Note: Make sure there are no visible cracks on the chassis.

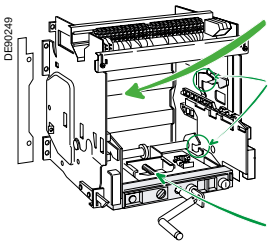
PE90614



Check for any bent or distorted parts that could hinder insertion of the MasterPacT circuit breaker.

Carry out a racking test (in and out) 3 times without the circuit breaker and check the movement of the safety shutters, the auxiliary wiring connector plate and the drawer site plates.

DE90249



- Check the contact clusters. If they are in good condition, clean and lubricate them. If not, replace them.
- Check that all moving parts (pawls, cams) work properly.
- Check cradle warm screw:
  - Disconnected position without the breaker
  - Note abutment rear (x2)
  - Connect until the return of the hook
  - to remain; one turn + 1/4 maximum
  - Note abutment intermediayte (x2)
  - Il not OK ► make adjustment with Annex 1

Low Voltage distribution

Masterkit - Order Form

GCR_MASTERKIT_MTZ2 or GCR_MASTERKIT_MTZ3 or GCR_MKT_MTZ2SD or GCR_MKT_MTZ3SD GCR_MKT_MTZCHASSIS

To indicate your choices, check the applicable square boxes and enter the appropriate information in the rectangles

Quantity

Number of devices

The quantity specified here will not affect the quantity of spare parts.

Basic Configuration

MasterPacT type	MTZ2				MTZ3		
Rating (Masterkit 4000 A only with MTZ2)					A		
Sensor rating					A		
Circuit breaker	N1, H1, H2, L1 (L1: only for M08 to M20 drawout type)						
Switch-disconnector	NA, HA						
Micrologic X	2.0		5.0		6.0	7.0	
Number of poles		3				4	
Option: neutral on right side (MTZ2 only up to 3200 A)							
Type of equipment	Fixed						
	Drawout with chassis						
	Drawout without chassis						
	Chassis alone						
	Chassis alone with contacts						
Connection (rear only)	Top	Horizontal			Vertical		
	Bottom	Horizontal			Vertical		

For M40 4P fixed type, no possible mix between horizontal and vertical connections
For M63 drawout horizontal connection, consult us

Communication(1)

Modbus interface	
Ethernet interface for 1 breaker	
Ethernet interface + Gateway	
ULP port module	
I/O Module	

(1) Consult Schneider Electric specialist to support and upgrade current installation with latest communicating solution

Design and installation simplification

Interphase barriers	MTZ2 fixed, drawable	
Only up to MTZ 2 25	Upstream & Downstream	

Operation Efficiency - Signaling

OF - ON/OFF indication contacts
4 OF 6 A - 240 V AC (10 A - 240 V AC and low level for NW) is supplied as standard

Additional	1 block of 4 OF Max. 2 blocks	Qty	

EF - combined "connected/closed" contacts
EF is only for MTZ2/3. Total number of EF cannot exceed the number of additional OF

1 EF standard (6A-240VAC)	Qty	
1 EF low level	Qty	

SDE - "fault-trip" indication contact
1 SDE 6A-240VAC is supplied as standard

Additional	1 SDE 6A-240VAC		1 SDE low level	
Programmable contacts		2 M2C contacts		

Carriage switches - Please refer to the catalogue for the maximum number of each carriage switch

CE - "con." position	6A-240VAC qty		Low level qty	
CD - "discon." position	6A-240VAC qty		Low level qty	
CT - "test" position	6A-240VAC qty		Low level qty	
PF - "ready to close" contact	6A-240VAC		Low level	

CDM - mechanical operation counter MTZ2/3	

Commomnly used spare parts

If you would like to order some spare parts, kindly indicate here. Please note that spare parts will be delivered spaperately.

Mobile PowerPact by APC	
USB CABLE	
Transparent cover for micrologic	
Display for micrologic	
Test kits	Mini test kit
FDM128	
Mounting accessories for FDM kits	

Operation Efficiency - Controlling

Remote control	MCH - gear motor	V	
	XF - closing voltage release	V	
	XF COM - closing voltage release	V	
	MX - opening voltage release	V	
	MX COM - opening voltage release	V	
	MN - undervoltage release	V	
	MN COM - undervoltage release	V	
	R - delay unit (non-adjustable)		
	Rr - adjustable delay unit		
	2nd MX - opening voltage release	V	
	2nd MX COM - opening voltage release	V	
	2nd MN - undervoltage release	V	
	2nd MN COM - undervoltage release	V	
	R - delay unit (non-adjustable) for 2nd MN		
	Rr - adjustable delay unit for 2nd MN		
Remote reset after tripping	RES - electrical reset option	V	
	RAR - automatic reset option		
Electrical closing	BPFE - electrical closing pushbutton		

People and property safety - Locking and interlocking

VBP - ON/OFF pushbutton no access (by transparent cover + padlocks)					
OFF position locking:					
VCPO - by padlocks					
VSPO - by keylocks	Keylock kit (without keylock)	Profalux		Ronis	
		Kirk		Castell	
	1 keylock	Profalux		Ronis	
	2 identical keylocks, 1 key	Profalux		Ronis	
	2 keylocks, different keys (MTZ2/3)	Profalux		Ronis	
Chassis locking in "disconnected" position:					
VSPD - by keylocks	Keylock kit (without keylock)	Profalux		Ronis	
		Kirk		Castell	
	1 keylock	Profalux		Ronis	
	2 identical keylocks, 1 key	Profalux		Ronis	
	2 keylocks, different keys	Profalux		Ronis	
	Optional connected / disconnected / test position locking				
VPEC - door interlock	On right-hand side of chassis				
	On left-hand side of chassis				
VPOC - racking interlock					
IPA - cable-type door interlock					
VDC - mismatch protection					
VIVC - shutter position indication and locking for MTZ2/3					
IBPO - racking interlock between crank and OFF pushbutton for MTZ2/3					

People and property safety - Circuit protection

TCE - external sensor (CT)	For neutral	
	Single sensor & Single wire (MTZ 2/3)	
	Double sensor & double wire (MTZ3)	
TCW - external sensor for SGR protection		
Rectangular sensor for earth-leakage protection	MTZ2/3 (470 x 160 mm)	
PTE - external voltage connector		

People and property safety - Mechanical protection

CDP - escutcheon MTZ2/3
CP - transparent cover for escutcheon MTZ2/3
OP - blanking plate for escutcheon MTZ2/3
CB - auxiliary terminal shield for chassis MTZ2/3

People and property safety - Operation protection

KMT - grounding kit MTZ2/3
Earthing switch kit for chassis
DAE - automatic spring discharge before breaker removal for MTZ2/3

Power availability and realiability

VPS - voltage power supply		
AD - external power-supply module	V	

Digital Module

Energy per phase		Wave form capture	
Circuit Breaker restoration		Circuit Breaker reclosing	

ASCO Automatic Transfer Switch (ATS) Modernization



Discover our Services.

ASCO ATS Modernization

ATS - Group-1 Controller..... D2
ATS - Group-7/7A/9 Controller D3
Power Meter - 5220..... D4
Communication Module - 72E..... D5
ATS 940 / 962 series D6

ASCO ATS Controller Upgrade

ATS series 200/300 - Group-1 with Group-G Controller

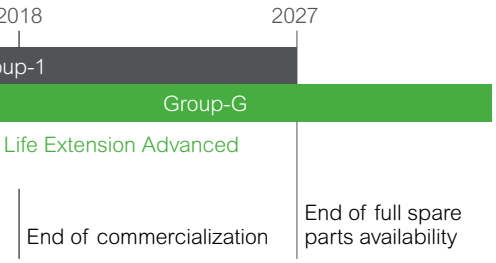
Original brand: ASCO

Group-1 Controller



Group-G Controller





Main Technical Characteristics Comparison

	Group-1	Group-G
Nominal Units	Via Dip Switch	Via Dip Switch
Phase Selection, Frequency	1 Ø or 3 Ø, 50 or 60 Hz	1 Ø or 3 Ø, 50 or 60 Hz
Voltage and Frequency Settings Setting Adjustments	Via Dip Switch	Via built-in Membrane Controls
Time Delay Settings Setting Adjustments	Via Dip Switch (DS)/Potentiometer (P)	Via built-in Membrane Controls
Indication and Controls - Control Type	Via Separate Membrane Controls	Via Built-in Membrane Controls
Event Log	N/A	Optional (with Acc. 11BE)
128*64 Graphical LCD Display multiple - language capability	N/A	Yes
System Status	N/A	Yes (Via LCD Display)
Self Diagnostics	N/A	Yes (Via LCD Display)
Communications Interface		
RS-485	Yes (If with option 72A/72E Module)	Yes (with option 11BE or 72EE Module)
Ethernet	Yes (If with option 72E Module)	Yes (If with option 72EE Module)
Communications Protocol	ASCO Bus	ASCO Bus, Modbus RTU, Modbus TCP/IP
Back-up Power Supply for the controller	N/A	Yes - (3 Min Back-up power with optional ACC 1UP)

Controller direct replacement solution



Group-1 To Group-G Retrofit Kit

- Group-1 Retrofit Will Accommodate Legacy
- Group-1 Retrofit Interfaces With Controller
- Conversion Kit Includes:
  - Group-G Controller
  - Transfer switch dual harness adapter
  - Door controls to fit into existing Series 300 door opening (display and ribbon cable)
  - Group-G Controller user guide 381333-400
  - Group-1 To G Retro fit Kit Instructions 381339-313
- Kit Part Number:
  - 955717 For 115~120V
  - 955717-001 For 208~480V
  - 955717-002 For 550~600V

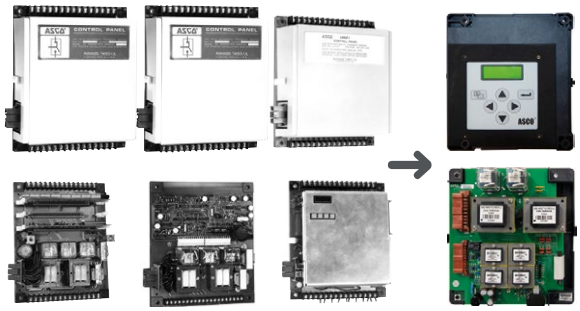
  Group G Controller's 11BE Features (Engine Excerciser, Common Alarm, Phase Rotation Monitoring, and Emergency Source V_LL Monitoring) are not supported via Retrofit Kits

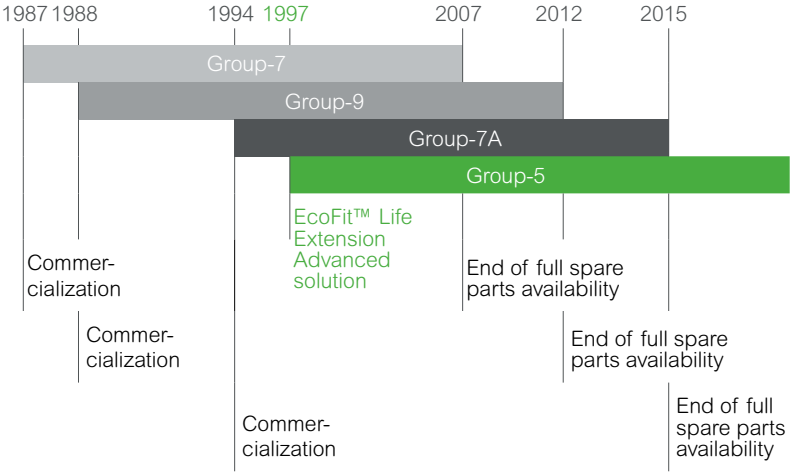
Upgrade the Performance of your ASCO SERIES 200/300 Power Transfer Switches.
The Group-G upgrade kit will accommodate legacy products and incorporate a user interface and display similar to that of the Group-G Controller.
No mechanical or electrical impact on your installation. Implementation and site test within a very limited time.
Advanced HMI for local control functions.

ASCO ATS Controller Upgrade

ATS 940 / 962 series - Group-7/7A/9 with Group-5 Controller

Original brand: ASCO



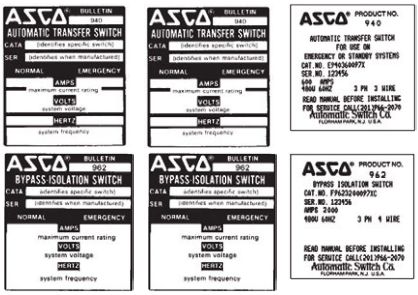


Main Technical Characteristics Comparison

	Group-7	Group-9	Group-7A	Group-5
Nominal Units	Via Dip Switch	Via Dip Switch	Via Dip Switch	Via Dip Switch
Phase Selection, Frequency	1 Ø or 3 Ø, 50 or 60 Hz	1 Ø or 3 Ø, 50 or 60 Hz	1 Ø or 3 Ø, 50 or 60 Hz	1 Ø or 3 Ø, 50 or 60 Hz
Voltage Rating	Different controllers for 120V, 208V, 220V, 240V, 380V, 415V, 440V, 480V & 600V	Different controllers for 120V, 208V, 220V, 240V, 380V, 415V, 440V, 480V & 600V	Different controllers for 120V, 208V, 220V, 240V, 380V, 415V, 440V, 480V & 600V	One controller programmable for 120V - 600V
Time Delay Settings Setting Adjustments	Via Dip Switch	Via Dip Switch	Via Dip Switch	Via built-in Membrane Controls
Indication and Controls - Control Type	Lamp Type/Toggle Switch	Lamp Type/Toggle Switch	Lamp Type/Toggle Switch	Lamp Type/Toggle Switch
Event Log	N/A	N/A	N/A	Yes-99 Events
4 x 20 Character Backlit LCD Display	N/A	N/A	N/A	Yes
System Status	N/A	N/A	N/A	Yes (Via LCD Display)
Self Diagnostics	N/A	N/A	N/A	Yes (Via LCD Display)
Communications Interface				
RS-485	N/A	N/A	Yes (with option 72A Module)	Yes (with option 72EE2 Module)
Ethernet	N/A	N/A	N/A	Yes (with option 72EE2 Module)
Communications Protocol	ASCO Bus	ASCO Bus	ASCO Bus	ASCO Bus, Modbus RTU, Modbus TCP/IP
Product Series:	940/962	940/962	940/962	7000/4000

Determine which controllers are on your equipment by using the chart on this page. (Product Nameplate sample)

- ASCO Group 7/7A/9 to Group-5 Controller Retrofit: Kit#707710-001
- For Non-Bypass, ATS (Open Transition Transfer) only
- For other configuration/modernization information, please contact: technicalsupport@ascopower.com



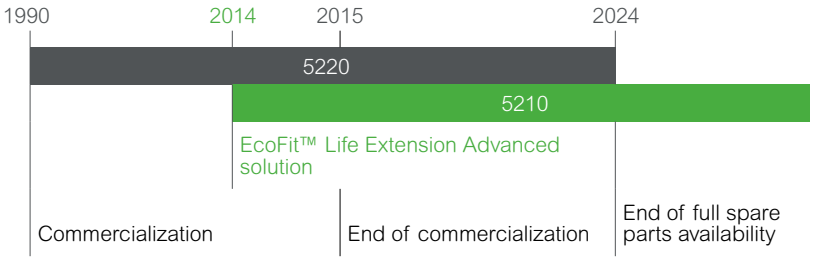
The most reliable and field-proven transfer switch controller in the industry.
ASCO Group-5 Power Transfer Switch controllers are accurate, faster and offer broader functionality than previous models.
ASCO Group-5 controllers can provide access to data, such as power source, voltage and frequency, contact position, time delays and diagnostics.
ASCO Controllers also can be integrated into a connectivity network that enables both on-site and remote monitoring and control.

ASCO ATS Accessories Upgrade

Power Meter - 5220 with 5210

Original brand: ASCO





Main Technical Characteristics Comparison

	5220	5210
Input/Output Sensing	3 Voltage + 4 Current Input	3 Voltage + 4 Current Input
Input/Output Discrete Status	N/A	Transfer Switch Position input
Languages	Multilanguage 2	Multilanguage 9
I/O and Protection	Yes	N/A
Communication	RS485, TTL, Ethernet	RS485, TTL, CAN2.0, Ethernet
Protocol	ASCO Bus	ASCO Bus, Modbus

The data given by the meter provides the information needed to make key decisions on-site regarding energy management, optimization, utilization, load planning, or even for general reference.
All the monitored data is available over Modbus via the onboard serial connection or via the optional Ethernet module which includes a remote and mobile friendly webpage.
Incremental Improvements:
- Increased accuracy (Revenue accurate per ANSI standard)*
- Multi-Language Display
- Total Harmonic Distortion (THD%)
- Min/Max Historic Values
- Monthly Load Demand

5210 Digital Power Meter: Kit#966071

* Not applicable on G-Frame Bypass TS

ASCO ATS Accessories Upgrade

Communication Module - 72E with 72EE & 72EE2

Original brand: ASCO

72E

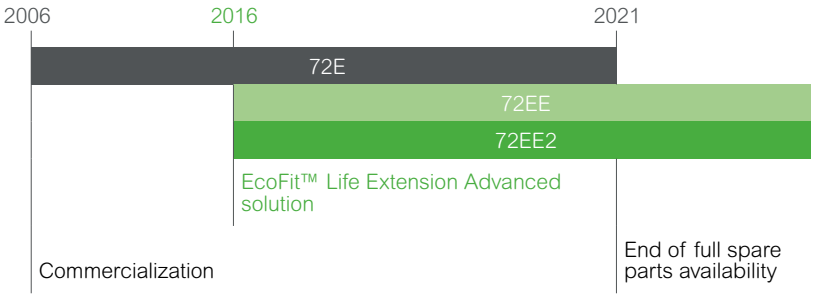


72EE



72EE2





Main Technical Characteristics Comparison

	5150 (72E)	5140 (72EE)	5170 (72EE2)
Product Series	200/300/4000/7000	200/300	4000/7000
Controller	Group-1, Group-5	Group-G	Group-5
Embedded Webpages	With Control	Yes	Yes
Mobile Support	No	Yes	Yes
Modbus	Yes	Yes	Yes
SNMP	Limited	Yes	Yes
Email Notification	No	Yes	Yes
Ethernet	One Port	Four Ports	Four Ports
RS485	Yes	No	Yes

The 5140/5170 Communication Module is an easy-to-deploy solution for connecting, monitoring, controlling, and securing transfer switches in critical power systems.
Sends real-time notices of power system events and alarms.
Enables remote testing of transfer switches and generators.
Provides power information to web application and monitoring systems.

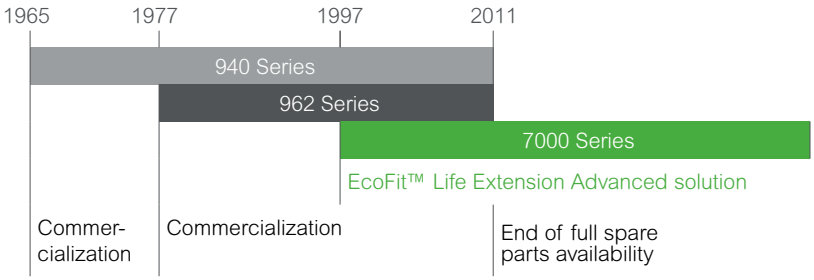
72EE-5140 Quad-Ethernet (Field mod kit): 948551
72EE2-5170 4000/7000Series (Field mod kit): K1106217

ASCO ATS Replacement

Modernization - ATS 940 / 962 Series with Series 7000

Original brand: ASCO

Series 940:
1965 - 2001, Power Transfer Switch
Series 962:
1977 - 2001, Power Transfer Switch with Bypass Switch
Series7000:
1997 - Current
Ampere Rating from 30A ~ 4000A
Voltage Rating from 120V ~ 600V



Transfer Switch Design Letter (_Design) Chart

	940 Series	962 Series	7000 Series
30-230A	B,C	E	D
260-400A	B,C,D,E	E	E,J
600-800A	B,C,D,E,F	E,F	H
1000-1200A	B,D,E,G	D,E,G	H
1600-2000A	B,D,E,G	D,E,G	G
3000-4000A	B,D,E,G	Back-to-Back, Side-by-Side, G	G

Refer to the product nameplate (can be found on product, example attached) to determine which controller/design of your equipment.
Options:
- Controller upgrade: All controllers can be upgraded to Group 5 Controller, please order Kit#707710-001
- Entire switch replacement: please contact CustomerCare@ascopower.com for more information
- Upgrade with accessories





Notes

Power and Distribution Transformers



Discover EcoFit™: Modernization and circularity services.

Power and Distribution Transformers

Dry transformers.....E2
Oil transformers.....E3

Power and Distribution Transformers

Dry transformer with Trihal

Original brand: All brands

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended lifetime

Old transformer

Trihal transformer



Dry transformer		Trihal
		EcoFit™ Life Extension Advanced solution
Commercialization	End of commercialization	End of full spare parts availability

EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	Dry transformer	Trihal
Rated power	100 kVA to 15 MVA	100 kVA to 20 MVA
Rated insulation level	Up to 36 kV	Up to 36 kV
Rated Frequency	50 Hz or 60 Hz	50 Hz or 60 Hz
MV windings	Not available	Encapsulated in cast resin
Thermal insulation	Not available	Class F or Class H
Safety and reliability	Not available	IEC 60076-11 and IEC 60076-16 • E4 as per IEC 76-11: 2018 • C4 as per IEC 76-11: 2018 Climate Test • F1 Fire Behaviour • ≤ 5pC Special test for partial discharge Silicone free
Cooling	Naturally cooled or air forced	Naturally cooled or air forced
Location	Indoor / outdoor	Indoor
IP	Up to 44	Outdoor with IP44
Hazard proof	Not available	Self extinguishing
Ecodesign	Not available	EU 548-2014 - EN 50588-1
Digitalization	Without or analogic basic protection	• Digital asset management enabler • Alarming • Diagnosis • Modbus RS communication

Additional offer

Asset management services

- Implementation of digital protection relay (NT935)
- Upgrade with smart sensors for health status monitoring
- Alarms and report
- Ageing and HOT SPOT information
- ACTIVE
- ACTIVE+ with PD online

EcoStruxure™
Innovation At Every Level

- Priority access to Schneider Electric expertise and support
- 24/7 proactive remote monitoring and alarming from our remote experts team
- Advanced analytics and AI
- Reduce downtime, extend your asset lifespan and avoid carbon emissions
- Consistent monitoring solution across our MV portfolio, for both new and modernization projects

EcoCare membership



Power and Distribution Transformers

Oil transformer with Minera

Original brand: All brands

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended lifetime

Oil transformer

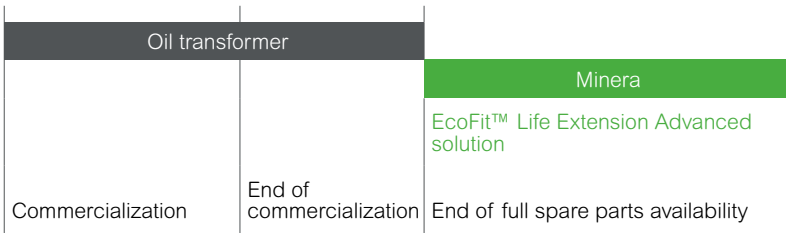
PM10604



Minera transformer

PE90841





EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	Oil transformer	Minera
Rated power	50 kVA to 3.15 MVA	50 kVA to 3.15 MVA
Rated insulation level	Up to 36 kV<	Up to 36 kV
Rated frequency	50 Hz or 60 Hz	50 Hz or 60 Hz
Type of cooling	ONAN, ONAF or KNAN	ONAN, ONAF or KNAN
Voltage regulation	Off-circuit tap changer (DETC)	Off-circuit tap changer also Smart Grid Solution EcoTAP
High Efficiency Transformer	Conventional losses	High efficiency ranges
Ecodesign	Not applicable	EN 50588-1
Location	Indoor / outdoor	Indoor / outdoor
Options	Not available	• Compact design (Slimtrim range) • Breathing or sealed type • Standard or low noise levels • Biodegradable vegetable oil • A wide variety of accessories
Digitalization	Not available	• DGPT • DMCR (Detection, Measurement, Control Relay) • H2 Sensor • H20 Sensor

Additional offer

Asset management services

- Implementation of digital protection relay (eDMCR)
- Upgrade with smart sensors for health status monitoring
- Alarms and report
- Advanced condition-based monitoring with EcoCare for Electrical Distribution Equipment membership
- Priority access to Schneider Electric expertise and support
- 24/7 proactive remote monitoring and alarming from our remote experts team
- Advanced analytics and AI
- Reduce downtime, extend your asset lifespan and avoid carbon emissions

EcoStruxure™ Innovation At Every Level





Innovative sensor compatible with oil transformers from all manufacturers

EcoCare membership





Cloud-based patented analysis based on latest research provides risks insights and anticipates irreversible trends

Upgrade with **EcoFit™**
Life Extension Essential



Discover our Services.

EcoFit™ Life Extension Essential

Digitize and monitor your equipment with smart sensors

Financial impact of one hour of downtime
(Source: Contingency Planning Research)

Application	Loss(1) in €
Health establishment	Human lives....
Stock market transactions	6,500,000
Credit card sales	2,600,000
Petrochemical	100,000
Plane ticket booking system	90,000
Mobile phone network	40,000
Automobile	30,000
Pharmaceutical	30,000
Food processing	20,000
Cement	15,000

(1) Direct and indirect costs of non availability

How we can help you?

When the time comes to modernization, upgrade your equipment to:

- Prevent unscheduled downtimes (cf. Table 1)
- Increase safety (operators and installations)
- Allow condition based maintenance
- Maximize service continuity, anticipate possible disruptions
- Protect the investment, maximizing the equipment lifetime.

What if the equipment could communicate?

PowerLogic TH110 - Monitor connections temperature

Loose low or medium voltage products power connections are one of the most sensitive concern for electrical substations

- MV cable connections
- MV busbars connections or LV busways
- Withdrawable CB connections.

Defective connections cause an increase of resistance in the contact points that could lead to thermal runaway, connections complete destruction… and potential fire hazard.

Preventive maintenance can be complicated due to limited accessibility and visibility of the contacts.

Continuous thermal monitoring is an effective way to detect loose connections earlier.

PowerLogic CL110 - Monitor ambient humidity and temperature

Humidity monitoring in the substation contributes to the efficient ventilation and guarantee proper operating condition.

Humidity monitoring helps ventilation failure detection leading to moisture, ozone, partial discharge in the substation.

Arc Flash sensors - Detect arc and reduce damage on equipment and human injuries

An arc flash is an electrical accident that creates a high-temperature explosion. It can vaporize surrounding metal, set fires, and result in severe burns. Although rare, arc flashes can have grave consequences so you need to ensure your people and site are always protected. An arc flash can happen during abnormal use due to a corruption of isolation, or in circumstances involving animals, flooding, vibrations, or corrosion. Yet, it can also occur during commissioning or maintenance, rendering equipment unusable and forcing costly downtime with serious economic consequences. Prevent accidents and protect your site with our arc flash protection solutions for both safety and productivity.

Partial Discharge sensor (PowerLogic PD100)

By installing a partial discharge sensor such as a PowerLogic PD100 in medium-voltage switchgear with Active Plus connectivity, we can monitor this critical phenomenon as an optional feature in your EcoCare membership with:

- 24/7 monitoring and alarming with easy access to data through our mobile app and web portal
- Dedicated and specific monitoring by our experts
- Detection of all types of partial discharge (corona, surface, or internal discharge)
- Advanced analytics to monitor trends and environmental conditions.

Our Connected Services Hub experts possess the necessary competencies to understand the data and analytics and see if conditions are developing that could lead to partial discharges.

They will provide valuable insights, analysis, and recommendations to help mitigate the risk of partial discharge and enhance your business continuity and operational efficiency.

What do you get?

- HMI display
- SCADA connection
- Preventive asset performance management
- Predictive asset performance management.

EcoStruxure™
Innovation At Every Level

Apps, analytics and services



EcoStruxure Facility Advisor



EcoCare Service Plan with Membership

Edge control Facility level

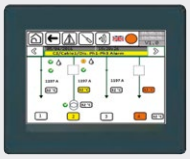


EcoStruxure Power Scada Expert



EcoStruxure Power Monitoring Expert

Connect products Equipment level



HMI (Substation monitoring device SMD)

EcoFit™ Life Extension Essential

Digitize and monitor your equipment with smart sensors

EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Condition monitoring package

To get visibility of switchgear's health in real time & reduce unplanned downtime



Thermal monitoring
PowerLogic TH110 wireless self-powered sensors to monitor the quality of power connections in medium voltage cables.



Environmental monitoring
PowerLogic CL110 wireless battery powered sensors to monitor the condensation within the switchgear.



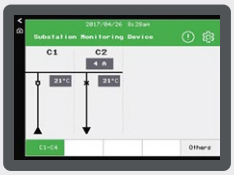
Circuit breaker monitoring
Real-time circuit breaker monitoring
- Mechanical aging
- Operating time performance
- MV contact aging
- Motor spring charging performance



To take people's and equipment's safety to the next level



Ultra fast Internal arc detection
VAMP125 or PowerLogic P3 or PowerLogic P5 relays which helps
to reduce up to 40% internal arc fault clearance time vs conventional relay.



Nearby control
Operate and monitor equipment features (temperature, environment, circuit breaker, transformer, etc.) from a local smart device.

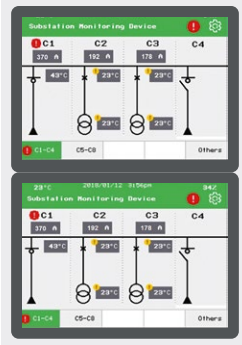
EcoFit™ Life Extension Essential

Digitize and monitor your equipment with smart sensors

EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

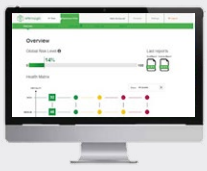
Local



Local & Nearby HMI (SMD)
A local touch HMI, with single line diagram allow users to browse the full substation condition. When equipped with Wifi, HMI can be replicated on a nearby smartphone.



Remote



EcoCare services plan with membership
Data from your connected equipment is collected and sent to our EcoStruxure cloud-based IoT platform. Our Connected Services Hub will continuously monitor your asset's health, helping optimize maintenance cycles and minimize downtime thanks to our exclusive indexes.



Power monitor / SCADA integration
Health data can be easily integrated within EcoStruxure Power Operation or Power Monitoring Expert or even in a third party.

EcoFit™ Life Extension Essential

Partial Discharge Monitoring

A complete solution to monitor and detect all types of Partial Discharge



EcoCare membership powered by innovative digital capabilities:

- Next-generation service plan which combines natively connected hardware with remote support and on-site intervention (when required).
- Experts from our Connected Services Hub provide insights, analysis and recommendations

EcoStruxure Panel Server: PAS600

- Gateway and data concentrator
- Wireless data from PD100
- Cloud connected architectures using 3G/4G or Customer own networks

Voltage Detection & Indicating System: VDIS

- PowerLogic PD100 only works with the new generation of VDIS, to avoid signal pollution
- Meets the latest Standards IEC 62671-213

Partial Discharge sensor: PowerLogic PD100

- Wireless communication using Zigbee Pro
- One device to manage 2 cubicles (Refer to installation instructions)
- Front port allows diagnostics without shutdown

Capacitive Coupler

- Connect to MV network
- Works with existing Capacitive Coupler to facilitate retrofit installation

Introducing EcoCare*

We help you optimize your electrical asset management. How?

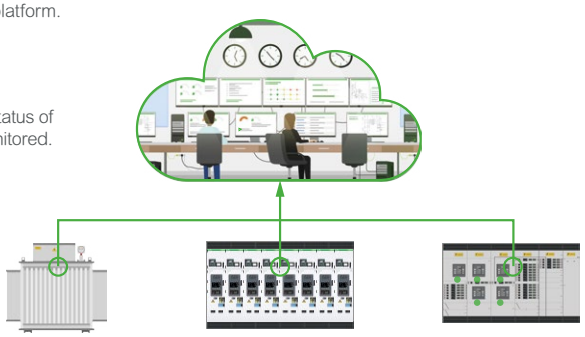
We've joined the best from a traditional on-site service plan with a digital service plan.

Notify
If our experts detect abnormal behavior, they'll notify you and propose a mitigation plan.

Analyze
Our Connected Services Hub experts analyze the data and analytics computed by our EcoStruxure digital IoT platform.

Maintain
If the issue is critical, a Services Representative will be dispatched whenever needed with faster response time and the right spare parts.

Monitor and visualize
The environmental and health status of the assets are continuously monitored.



Advise
You'll get insights and actionable recommendations through quarterly and during consultative meetings with our experts.

Collect
Data from sensors and communicating devices are collected and uploaded on Schneider Electric Cloud.

Support
You'll get access to Premium Support with our knowledgeable experts.

On-board & Set-up
Activate your mySchneider account and meet with your Customer Success Management team to explore your membership and set required features..

Empower
You'll have access to specialized training, online or on site, to empower your team and develop their skills.

* Please verify the availability of EcoCare in your region through a local services sales' representative.
If EcoCare is not yet available, you can leverage EcoStruxure Service Plan.

EcoFit™ Life Extension Essential

You can access Partial Discharge Monitoring

as part of an EcoCare Membership

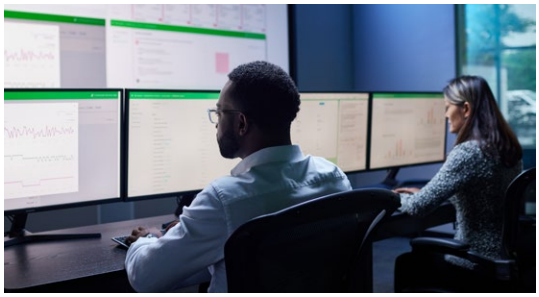
Features		EcoCare Essential	EcoCare Advanced	EcoCare Advanced+
Support to operations	• mySchneider portal • Premium support • Emergency support • Customer success management	●	●	●
Workforce empowerment	• Access to online training courses	●	●	●
Exclusive benefits	• Members rates on other services: on-site intervention, advanced trainings, spare parts and more1	●	●	●
Monitor and optimize	• 24/7 monitoring and alarming	●	●	●
	• Consultancy by our experts and quarterly reports	-	●	●
	• Condition-based maintenance	-	●	●
	• Partial discharge monitoring for medium voltage switchgear	-	Option	Option
	• Advanced transformer oil monitoring	-	Option	Option
Extended warranty		●	●	●
On-site maintenance		Option	Option	-

Complementary Benefits

- **Simplified operations** with online asset condition monitoring and alarms enabled by our cloud-based digital platform
- **Help prevent fires by monitoring Partial Discharge**
- **Increased asset uptime** with predictive analytics, remote, and on-site manufacturer expertise
- **Faster issue resolution** with 24/7 remote technical assistance
- **Optimized operational budget** with a condition-based maintenance strategy
- **Improved asset's lifetime**, helping to avoid carbon emissions
- **On-site maintenance** Manufacturer calendar-based maintenance visits with asset diagnostic

Leveraging our remote experts team

Partial Discharge is a complex phenomenon that requires specific knowledge and competencies so that you can get the right insights for your equipment.
Our remote expert's team from the Connected Services Hub proactively perform **24/7 monitoring** and **alarm management**, **analyse and troubleshoot** your critical electrical assets by leveraging our EcoStruxure IoT platform, and AI-powered advanced analytics.



You have visibility and get recommendations from our experts

- Live data available through Web
- Quarterly reports made by Schneider Electric remote experts based on advanced analytics with recommendations
- Annual summary report and consultative meeting with your Customer Success Manager advising how to improve your asset's performance

We continuously monitor and support your assets and systems 24/7

- Remote experts monitor and diagnose
- Alarm notification
- On-site intervention if needed

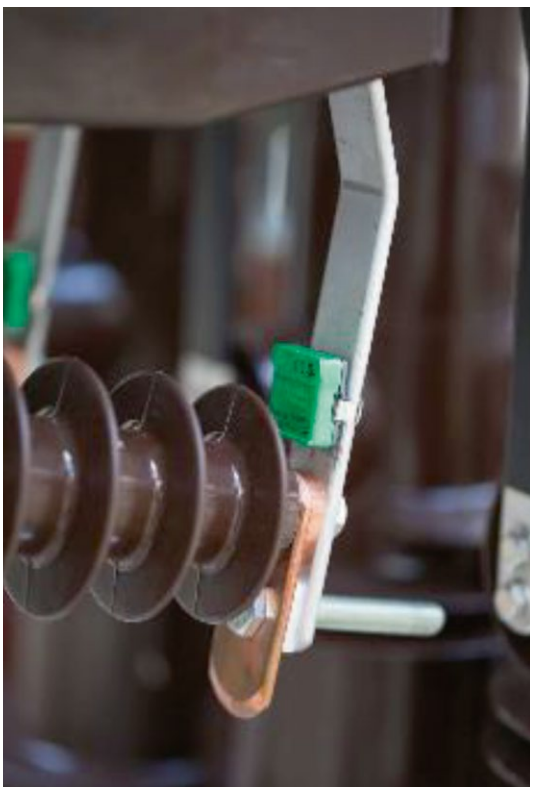
* Please verify the availability of EcoCare in your region through a local services sales' representative.
If EcoCare is not yet available, you can leverage EcoStruxure Service Plan.

EcoFit™ Life Extension Essential

Digitize and monitor your equipment with smart sensors

...Essential

Unleash the power of connectivity with smart sensors, sub-assemblies and software updates. Upgrade your non-communicating equipment into connected assets to monitor and capture information on the health of your installation.
Repair and fix your equipment to extend his life.



Commercialized ranges

		Connection temperature monitoring	Ambiant humidity and temperature	Arc flash detection	Partial Discharge monitoring
Medium Volatge	SM6 36kV	✓	✓	(1)	
	SM6 24kV	✓	✓	(1)	
	RM6	✓	✓	(1)	
	PIX + PIX H	✓	✓	✓	
	GMA	✓	✓	(1)	
	GHA	✓	✓	(1)	
	F400	✓	✓	✓	
	Flusarc	✓	✓	(1)	
	CBGS0/1/2/3	✓	✓	(1)	
	DVCAS	✓	✓	(1)	
	Motorpact	✓	✓	(1)	
	Masterclad 15kV	✓	✓	(1)	
	Pix ROF	✓	✓	✓	
	McSET 1,2,3,4	✓		✓	
	HWX	✓		(1)	
	Masterclad 27kV	✓	✓	(1)	
	Nex	✓	✓	(1)	
	HVL	✓		(1)	
	Premset	✓		(1)	
	Genie Evo				✓
Tfos	Dry Transformer Trihal < 36kV	including windings	na	(1)	
	Oil Transformer Minera	✓	na	(1)	
Low Volatge	Busway - KT	✓	✓	(1)	
	Busway – I-line	✓	✓	(1)	
	Prisma, Prisma P	✓	na	(1)	
	Okken - Blokset	(1)	na	(1)	
	ASCO 7000	(3)	(1)	na	

Legacy ranges and EcoFit™

		Connection temperature monitoring	Ambiant humidity and temperature	Arc flash detection
Medium Volatge	Fluair 100-200	✓	(1)	(1)
	HMC	✓	(1)	(1)
	YSF6	✓	(1)	(1)
	Venus	✓	(1)	(1)
	WBA	✓	(1)	(1)
	WBB	✓	(1)	(1)
	VAD2	✓	(1)	(1)
	VAD3	✓	(1)	(1)
	B200	✓	(1)	(1)
	YSF6	✓	(1)	(1)
	WKC	mid 2022	(1)	(1)
	GE	mid 2022	(1)	(1)
	B200	✓	(1)	(1)
	B400	mid 2022	(1)	(1)
LV	LV Circuit Breaker and Panels	(1)	(1)	✓

(1) Ask your Field Services Representative for availability

EcoFit™ Life Extension Essential

Data aggregation

EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Data aggregator will be used to collect data from sensors and protection relays to make them available for your local monitoring system or cloud service. It could be installed directly in your low voltage cabinet, or in stand alone enclosure.



Substation Monitoring Device - ZBRN

Version	V1	V3
Free Digital input	20	
Free Digital output	1 (3 digital outputs used for the 3 alarming lights)	
Analogue inputs (PT100)	4	
Zigbee concentrator management	• Up to 12 • Only one Zigbee concentrator available in the Substation Monitoring Device box • Additionnal Zigbee concentration installed in satellite Modbus serial box	
Zigbee sensors (TH110 or CL110) management	Up to 60 sensors per Zigbee concentrator (up to 180 sensors per Substation Monitoring Device)	
Ethernet Port	• 1 dedicated to local HMI • 1 dedicated to communication with customer SCADA/Panel server • 1 Free port: for Ethernet communication with devices	
Cubicle management	Up to 16 cubicles and 16 transformers	
SMS	No	No
Communication to the cloud	No	Yes
Commercial reference	FSR43502	FSR43504



Satellite Modbus Serial Box

Free Digital input	0
Free Digital output	0
Analogue inputs (PT100)	0
Zigbee concentrator	1 ZBRN32
Zigbee sensors (TH110 or CL110) management	Up to 60 sensors per Zigbee concentrator
Communication	2 ports Serial Modbus RS485 RJ45
Commercial reference	FSR43507



Substation Monitoring Device - PAS

Version	V1
Free Digital input	20
Free Digital output	1 (3 digital outputs used for the 3 alarming lights)
Analogue inputs (PT100)	4
Zigbee concentrator management	• Up to 5 – (Limited to 200 sensors per Substation Monitoring Device LV) • Only one Zigbee concentrator available in the Substation Monitoring Device box • Additionnal Zigbee concentration installed in satellite Modbus serial box
Zigbee sensors (TH110 or CL110) management	Up to 60 sensors with the integrated PAS600
Ethernet Port	• 1 dedicated to local HMI • 1 dedicated to communication with customer SCADA/Pabal server • 1 Free port: for Ethernet communication with devices
Cubicle management	Up to 16 cublicle
SMS	No
Communication to the cloud	Yes
Commercial reference	FSR43500

EcoFit™ Life Extension Essential

Data aggregation



Satellite Modbus TCP

Free Digital input	0
Free Digital output	0
Analogue inputs (PT100)	0
Zigbee concentrator	1 PAS600
Zigbee sensors (TH110 or CL110) management	Up to 60 sensors per Zigbee concentrator
Communication	1 TCP Modbus RJ45 port
Commercial reference	FSR43508



Digital Box

Free Digital input	PAS600: 2 inputs
Free Digital output	0
Analogue inputs (PT100)	0
Zigbee concentrator management	• Up to 60 Modbus TCP devices connected • Only one PAS600 concentrator available in the Digital box • Additional Zigbee concentrator (PAS600) installed in satellite Modbus TCP box
Zigbee sensors (TH110 or CL110) management	Up to 100 sensors with the integrated PAS600
Free Ethernet switches	• 1 dedicated to the communication with the LAN or used by the 4G modem • 4 for Ethernet communication with devices
Network communication	• Modbus Serial RS485 • Modbus TCP/IP
SMS	No
Communication to the cloud	Yes
Commercial reference	FSR43506

Notes

Protection Relays



Discover EcoFit™: Modernization and circularity services.

Protection Relays

Protection Relays

Protection relay upgrade benefits G2

Sepam series 20 with P3 ..... G3

Sepam series 40 with P3 ..... G4

MiCOM Px20 (20TE) with P5 ..... G5

MiCOM Px20 (30TE) with P5 ..... G6

Sepam series 20 with P5 ..... G7

Sepam series 40 with P5 ..... G8

Sepam 2000 ..... G9

Sepam series 10 ..... G10

Other Sepam, MiCOM or Vamp Protection Relays G11

Feeder Automation, RTUs and Substation Controllers G12

Other Vamp Protection Relays G13

Other MiCOM Px20 Protection Relays G14

Other Legacy Protection Relays G15

Order forms

EcoFit™ Life Extension Advanced G17

Other EcoFit™ Life Extension Advanced for Protection Relays G19

G

Protection Relays

Protection upgrade benefits

Improve the performance of your system with the latest technology in micro-processor based integrated relays.

Why protection upgrade?

By replacing solid state relays, older type electromechanical protection relays or legacy relays with technologically advanced multi-function microprocessor-based digital relays, the performance accuracy and longevity of your system can be significantly improved.
With a number of different protection functions Schneider Electric's range of relays can provide a range of options to include metering, communication, cyber security, event capture, monitoring and control. Units are self-diagnostic to provide enhanced reliability. It is normally possible to use the existing current and potential transformers and auxiliary digital relay inputs.
Schneider Electric's application based approach makes it easy to select the appropriate relay for your needs.

What are the benefits?

Accurate	System protection at the current level reduces unnecessary outages and minimise stresses to equipment.
	Increased accuracy of measurement assists in cost allocation and understanding power demand requirements.
	High reliability from advanced self supervision systems.
Flexible	The integrated functions of the relay allow for communications and control of the equipment either as a stand-alone unit or as part of networked systems.
	All components in the protection chain are referenced and interface rapidly.
	No constraints for integration in cubicles due to the compact size of the base unit and mechanical adaptation socket for some models.
Safer and secure	Enhance operator's safety and be better protected against cyber attacks.
Reliable and sustainable	Extend products usability and maintainability in a longer term.
Ease of use	Setting conversion tool for PowerLogic P3 or PowerLogic P5. Settings and adjustments are entered via the device's keypad or via user friendly setting software and visually displayed.
Reduced costs	The amalgamation of functions into one self-diagnosing device reduces expenditure and saves on space.

Protection Relays

Sepam series 20 with P3

Original brand: Merlin Gerin, Schneider Electric

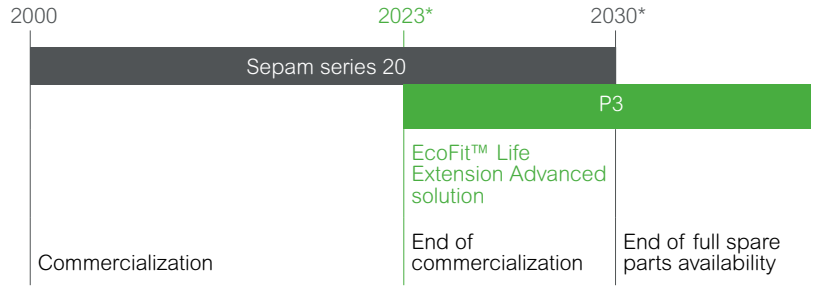
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

Sepam series 20
Protection Relay



P3
Protection Relay



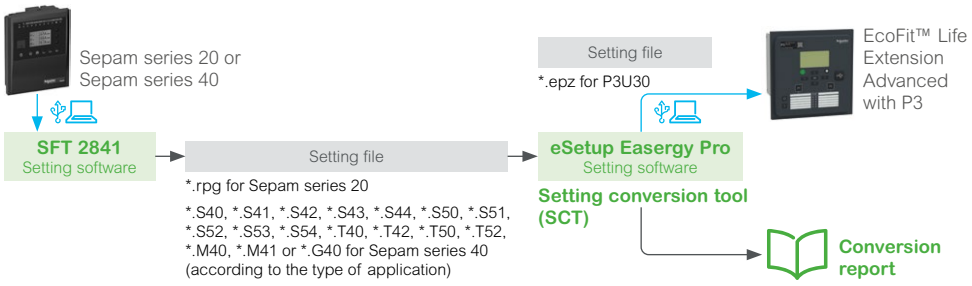


* Please consult Schneider Electric

Main technical characteristics

	Sepam series 20	P3
Case	Flush mounting	Flush mounting with 2 depths positions
Installation	Fix case	Fix case + mechanical adaptation socket
Language	Multilanguage	Multilanguage
Communication	Modbus serial IEC60870-5-103 DNP3	IEC 61850 Ed.1 & Ed.2 IEC 60870-5-103 & 101 IEC 60870-5-101 & 104 Ethernet DNP3 Ethernet DNP3 serial Modbus Ethernet Modbus serial EtherNet/IP SPAbus Profibus Device net
Power supply	24 - 250 VDC; 48V - 240 VAC	24 VDC; 48 - 240 VAC/VDC
Control LED	11 leds	12 LEDs
Single line diagram (Mimic)	No	Yes
Programmable function key	No	2
Cyber security	No	Yes
Compatibility	Sepam series 20 models compatibles with the EcoFit™ Life Extension Advanced with P3: S20 / S23 / S24 / T20 / T23 / T24 / B20 / B21 / B22 / M20 For Sepam + MSA141 (analog ouptup module) and/or ACE990 (Core balance CT interface) and/or DSM303 (Remote advance UMI display) and/or MET148/MET148-2 (temperature sensor module): Please consult Schneider Electric	

Settings conversion with EcoFit™ Life Extension Advanced with P3



Mechanical adaptation socket

EcoFit™ Life Extension Advanced for Sepam series 20 or series 40 with P3

2 possible positions depth mounting


Flush mounting


Offset mounting

To request a quote, please visit the EcoFit™ Life Extension Advanced web page in your country

Protection Relays

Sepam series 40 with P3

Original brand: Merlin Gerin, Schneider Electric

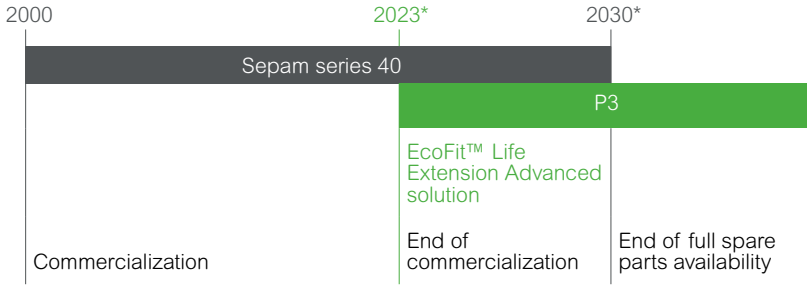
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

Sepam series 40 Protection Relay



P3 Protection Relay



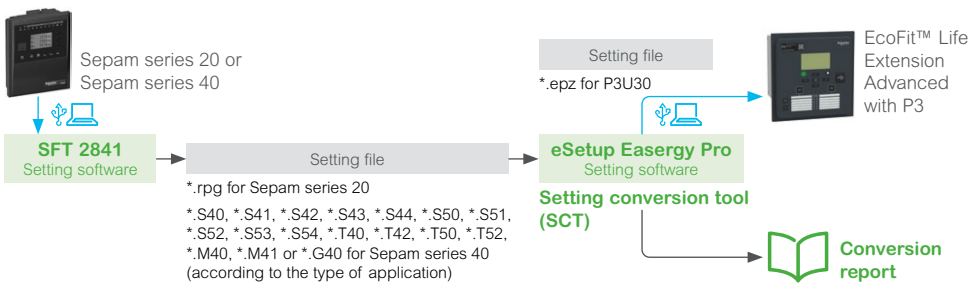


* Please consult Schneider Electric

Main technical characteristics

	Sepam series 40	P3
Case	Flush mounting	Flush mounting with 2 depths positions
Installation	Fix case	Fix case + mechanical adaptation socket
Language	Multilanguage	Multilanguage
Communication	Modbus serial Modbus Ethernet IEC61850 Ed1 & Ed2 IEC60870-5-103 DNP3	IEC 61850 Ed.1 & Ed.2 IEC 60870-5-103 & 101 IEC 60870-5-101 & 104 Ethernet DNP3 Ethernet DNP3 serial Modbus Ethernet Modbus serial EtherNet/IP SPAbus Profibus Device net
Power supply	24 - 250 VDC; 48V - 240 VAC	24 VDC; 48 - 240 VAC/VDC
Control LED	11 leds	12 LEDs
Single line diagram (Mimic)	No	Yes
Programmable function key	No	2
Cyber security	No	Yes
Compatibility	Sepam series 40 models compatibles with the EcoFit™ Life Extension Advanced P3 (30TE): S40 / S41 / S42 / S43 / S44 / S50 / S51 / S52 / S53 / S54 / T40 / T42 / T50 / T52 / M40 / M41 / G40 For Sepam + MSA141 (analog ouptup module) and/or ACE990 (Core balance CT interface) and/or DSM303 (Remote advance UMI display) and/or MET148/MET148-2 (temperature sensor module): Please consult Schneider Electric	

Settings conversion with EcoFit™ Life Extension Advanced with P3



Mechanical adaptation socket

EcoFit™ Life Extension Advanced for Sepam series 20 or series 40 with P3

2 possible positions depth mounting



Flush mounting



Offset mounting

To request a quote, please visit the EcoFit™ Life Extension Advanced web page in your country

Protection Relays

MiCOM Px20 (20TE) with P5

Original brand: Alstom, AREVA, Schneider Electric

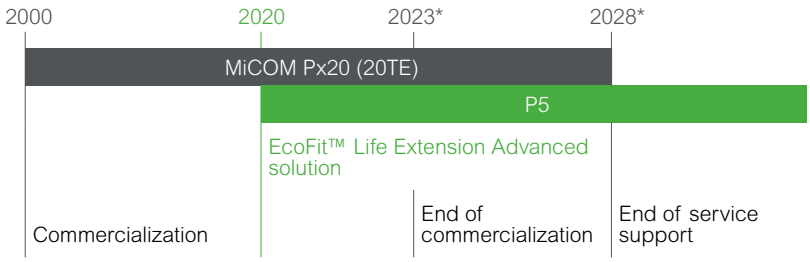
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

MiCOM Px20 (20TE)
Protection Relay

P5
Protection Relay

PE90635





* Please consult Schneider Electric

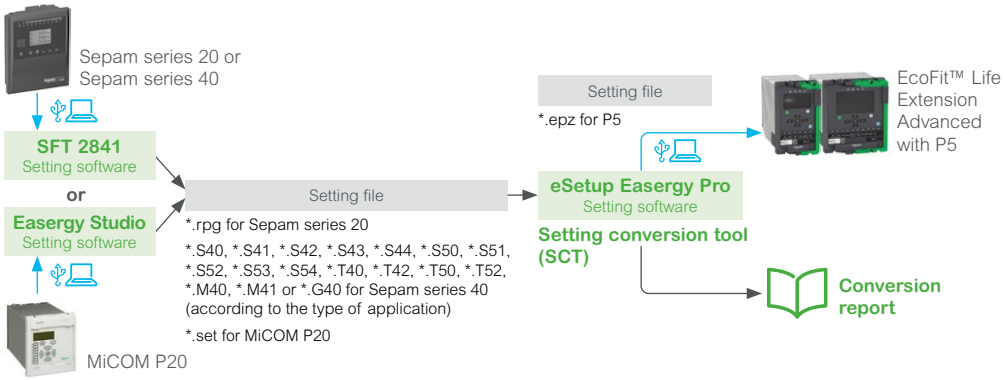
EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	MiCOM Px20 (20TE)	P5
Case	20TE size flush mounting	20TE size flush mounting
Installation	Withdrawable case	Withdrawable case
Language	Multilanguage	Multilanguage
Communication	Modbus serial Kbus / Courier IEC60870-5-103 DNP3	IEC 61850 Ed.1 & Ed.2 IEC 60870-5-103 & 101 IEC 60870-5-101 Ethernet DNP3 Ethernet DNP3 serial Modbus Ethernet Modbus serial EtherNet/IP
Power supply	24 - 250 VDC; 48V - 240 VAC	24 - 250 VDC; 100 - 230 VAC
Control LED	8 leds	10 LEDs
Single line diagram (Mimic)	No	Yes, Black & White
Programmable function key	No	1
Cyber security	No	Yes
Back-up memory	No	Yes
Compatibility	MiCOM Px20 (20TE) models compatible with the EcoFit™ Life Extension Advanced P5 (20TE): P120 / P121/ P122 / P123 / P920 / P921 / P922 / P923 (only type A) For MiCOM P123 / P920 / P922 / P923 with 8 outputs connected: Please consult Schneider Electric	

Settings conversion with EcoFit™ Life Extension Advanced with P5



To request a quote, please visit the EcoFit™ Life Extension Advanced web page in your country

Protection Relays

MiCOM Px20 (30TE) Coming soon with P5 (30TE)

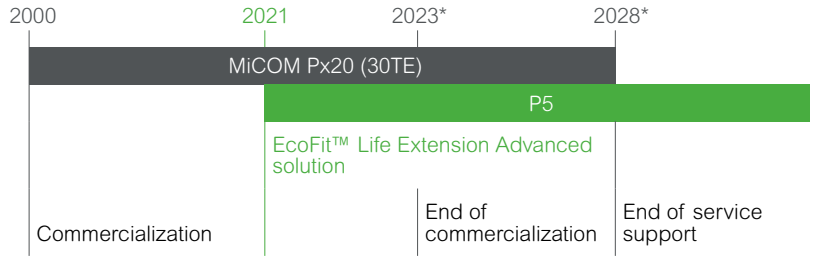
Original brand: Alstom, AREVA, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

MiCOM Px20 (30TE)
Protection Relay

P5
Protection Relay





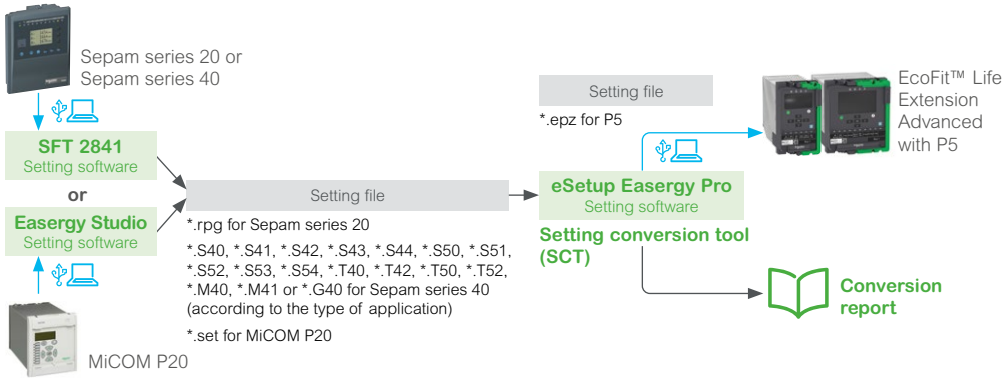
* Please consult Schneider Electric

EcoXpert™
This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	MiCOM Px20 (30TE)	P5
Case	30TE size flush mounting	30TE size flush mounting
Installation	Withdrawable case	Withdrawable case
Language	Multilanguage	Multilanguage
Communication	Modbus serial Kbus / Courier IEC60870-5-103 DNP3	IEC 61850 Ed.1 & Ed.2 IEC 60870-5-103 & 101 IEC 60870-5-101 Ethernet DNP3 Ethernet DNP3 serial Modbus Ethernet Modbus serial EtherNet/IP
Power supply	24-250 VDC; 48V-240 VAC	24-48 VDC or 48-250 VDC; 100-230 VAC
Control LED	8 leds	14 LEDs
Single line diagram (Mimic)	No	Yes, colored HMI
Programmable function key	No	7
Cyber security	No	Yes
Arc flash	No	0 to 6 sensors
Back-up memory	No	Yes
Compatibility	MiCOM Px20 (30TE) models compatible the EcoFit™ Life Extension Advanced with P5 (30TE): P126 / P127 / P220 / P225	

Settings conversion with EcoFit™ Life Extension Advanced with P5



To request a quote, please visit the EcoFit™ Life Extension Advanced web page in your country

Protection Relays

Sepam series 20 with P5

Original brand: Merlin Gerin, Schneider Electric

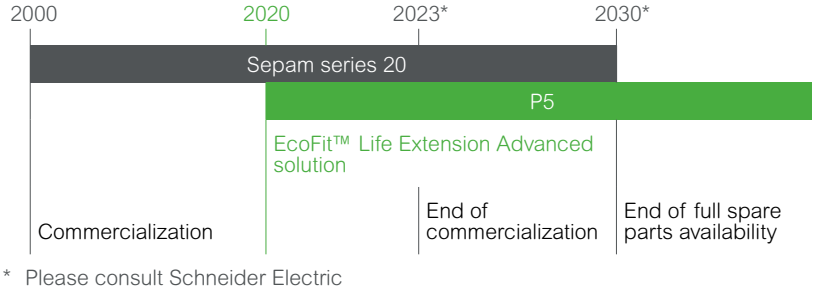
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

Sepam series 20
Protection Relay

P5
Protection Relay

PE88030





* Please consult Schneider Electric

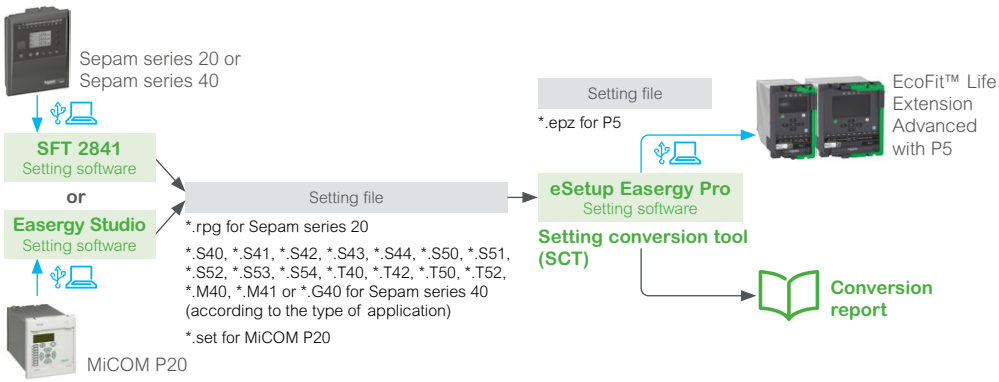
EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	Sepam series 20	P5
Case	Flush mounting	20TE size mounting with 2 depths positions
Installation	Fix case	Withdrawable case + mechanical adaptation socket
Language	Multilanguage	Multilanguage
Communication	Modbus serial IEC60870-5-103 DNP3	IEC 61850 Ed.1 & Ed.2 IEC 60870-5-103 & 101 IEC 60870-5-101 Ethernet DNP3 Ethernet DNP3 serial Modbus Ethernet Modbus serial EtherNet/IP
Power supply	24-250 VDC; 48V-240 VAC	24-250 VDC; 100-230 VAC
Control LED	11 leds	10 LEDs
Single line diagram (Mimic)	No	Yes
Programmable function key	No	1
Cyber security	No	Yes
Back-up memory	No	Yes
Compatibility	Sepam series 20 models compatibles with the EcoFit™ Life Extension Advanced with P5 (20TE): S20 / S23 / S24 / T20 / T23 / T24 /B20 / B21 / B22 / M20 For Sepam + MSA141 (analog ouptup module) and/or ACE990 (Core balance CT interface) and/or DSM303 (Remote advance UMI display): Please consult Schneider Electric	

Settings conversion with EcoFit™ Life Extension Advanced with P5



Mechanical adaptation socket

EcoFit™ Life Extension Advanced for Sepam series 20 or series 40 with P5

2 possible positions depth mounting



Flush mounting Offset mounting

To request a quote, please visit the EcoFit™ Life Extension Advanced web page in your country

Protection Relays

Sepam series 40 with P5

Original brand: Merlin Gerin, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

Sepam series 40
Protection Relay

P5
Protection Relay





* Please consult Schneider Electric

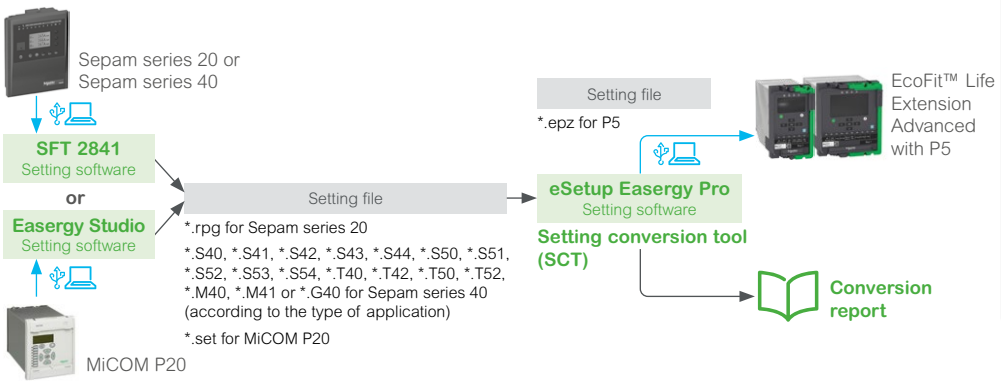
EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	Sepam series 40	P5
Case	Flush mounting	30TE size mounting with 2 depths positions
Installation	Fix case	Withdrawable case + mechanical adaptation socket
Language	Multilanguage	Multilanguage
Communication	Modbus serial Modbus Ethernet IEC61850 Ed1 & Ed2 IEC60870-5-103 DNP3	IEC 61850 Ed.1 & Ed.2 IEC 60870-5-103 & 101 IEC 60870-5-101 Ethernet DNP3 Ethernet DNP3 serial Modbus Ethernet Modbus serial EtherNet/IP
Power supply	24-250 VDC; 48V-240 VAC	24-48 VDC or 48-250 VDC; 100-230 VAC
Control LED	11 leds	14 LEDs
Single line diagram (Mimic)	No	Yes
Programmable function key	No	7
Cyber security	No	Yes
Arc flash	No	0 to 6 sensors
Back-up memory	No	Yes
Compatibility	Sepam series 40 models compatibles with the EcoFit™ Life Extension Advanced with P5 (30TE): S40 / S41 / S42 / S43 / S44 / S50 / S51 / S52 / S53 / S54 / T40 / T42 / T50 / T52 / M40 / M41 / G40 For Sepam + MSA141 (analog ouptup module) and/or ACE990 (Core balance CT interface) and/or DSM303 (Remote advance UMI display): Please consult Schneider Electric	

Settings conversion with EcoFit™ Life Extension Advanced with P5



Mechanical adaptation socket

EcoFit™ Life Extension Advanced for Sepam series 20 or series 40 with P5

2 possible positions depth mounting


Flush mounting


Offset mounting

To request a quote, please visit the EcoFit™ Life Extension Advanced web page in your country

Protection Relays

Sepam 2000
with Sepam series 60 or series 80
Original brand: Merlin Gerin, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

Sepam 2000
Protection Relay

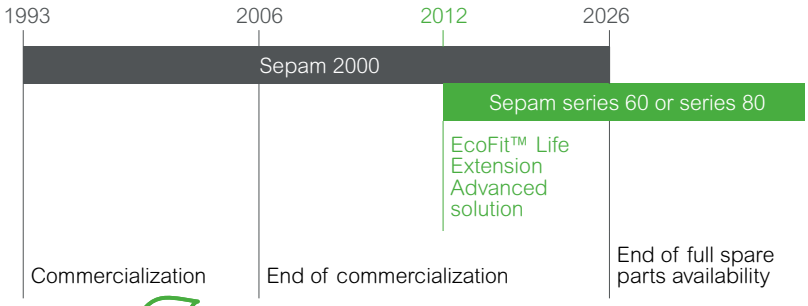
PE90638



Sepam series 60
or series 80
Protection Relay

PE90639





EcoXpert™

This type of service can be also provided by a Power Services EcoXpert

Main technical characteristics

	Sepam 2000	Sepam series 80	Sepam series 60*
Motor Application	M06, M07, M08, M14	X	
	M02 to M05, M09, M11, M15, M16, M20 to M23		X
Sub-station Application	S02, S03, S06 to S09	X	
	S01, S04, S05		X
Bus Bar Application	B02, B04, B07, B12	X	
	B01, B03		X
Transformer Application without temp. measurement	T01 to T03, T06, T07, T09, T10, T12 to T15, T17 to T19	X	
	T04, T05, T11, T16		X
Transformer Application with temp. measurement	T21, T22, T23, T26, T27, T29, T30, T32 to T35, T37 to T39	X	
	T24, T25, T31, T36		X
Generator Application	G01 to G08, G12, G13, G15 to G18	X	
Capacitor bank Application	C02, C04, C06, C08	X	
	C01, C03		X
Transformer Diff. Application	D02, D22	X	

* Sepam serie 80 will be proposed in case of customised Logipam on the original Sepam 2000

EcoFit™ Life Extension Advanced for Sepam 2000 upgrades: diagnosis + implementation/installation of a fully industrialised solution

Improve the performance of your system with the latest technology in micro-processor based integrated relays.

1 • Disconnection of existing terminal blocks

PE90637



2 • Presentation of new EcoFit™ Life Extension Advanced for S2000

PE90637



No mechanical or electrical impact on your installation.
Implementation and site test within a very limited time.

New features enabled:

- Advanced HMI for local control functions.
- Standard communication protocols (Modbus serial, Modbus Ethernet, IEC60870-5-103, DNP3, IEC61850).
- Monitoring & Automation facilities.

Protection Relays

Sepam series 10 with PowerLogic™ P1

Original brand: Merlin Gerin, Schneider Electric

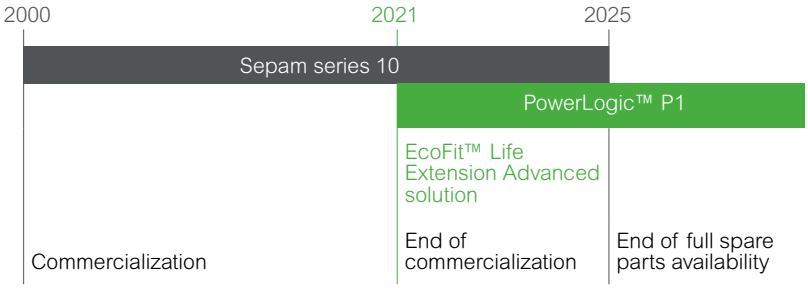
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

Sepam series 10 Protection Relay



PowerLogic™ P1 Protection Relay





Main technical characteristics

	Sepam series 10	PowerLogic™ P1
Case	Flush mounting	Flush mounting
Installation	Fix case	Fix case + mechanical adaptation socket
Language	Multilanguage	Multilanguage
Communication	Sepam 10B & N: No communication Sepam 10A: Modbus serial IEC60870-5-103	Modbus serial IEC 60870-5-103
Power supply	Depending on the model 24-125 VDC, 100-120 VAC, 110-250 VDC, 100-240 VAC, 220-250 VDC	Depending on the model 24-240 VAC, 24-250 VDC, 24-60 VAC, 24-60 VDC, 90-240 VAC, 90-240 VDC
Single line diagram (Mimic)	No	Yes
Programmable function key	No	No (except Logic Discrimination)
Cyber security	No	No
Compatibility	Sepam series 10 models A, B & N compatibles with the ECOFIT™ PowerLogic P1F, models N, B, A, E & E+ For Sepam 10 with Very Sensitive Earth Fault Protection: Please consult Schneider Electric	

Mechanical adaptation socket

EcoFit™ Sepam series 10 with PowerLogic™ P1

Also Mimic and Panel compatible



Flush mounting

Please verify the availability of Sepam 10 with PowerLogic™ P1 in your region through a local services sales' representative.

To request a quote, please visit the EcoFit™ Life Extension Advanced web page in your country

Protection Relays

Other Sepam, MiCOM or Vamp Protection Relays

Original brand: Merlin Gerin, Schneider Electric, Areva, Vamp

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

Protection and Control devices

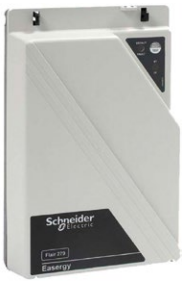
Product Release	Release date	Lifecycle phase	End of Sales date	End of Services date	Replacement solution	Modernization process
MICOM P111	2013	Obsolete	30th Sep. 2020	30th Sep. 2020	These products are substituted by PowerLogic P1	N/A
MiCOM P114D		Obsolete			No Replacement	N/A
MiCOM P114S	2006	Service	31st Dec. 2024	31st Dec. 2031	VIP4xx	Retrofit solution
MiCOM P115	2009	Service	31st Dec. 2024	31st Dec. 2033	No Replacement	Retrofit solution
MiCOM P116	2013	Service	31st Dec. 2024	31st Dec. 2033	No Replacement	Retrofit solution
Sepam 10	2010	Service	31st Dec. 2021	31nd Dec. 2025	PowerLogic P1F, VIP410, PowerLogic P3	EcoFit Plug & Play Solution with PowerLogic P1 or retrofit solution
Sepam 20 & 40 range		Service	31st Dec. 2023	31nd Dec. 2030	PowerLogic P3, P5	Ecofit Plug & Play solution
Sepam 48	2003	Service	31st Dec. 2023	31nd Dec. 2030	PowerLogic P5	Retrofit solution
MiCOM Px20 range	1997	Service	31st Dec. 2023	31st Dec. 2030	PowerLogic P3, P5	EcoFit Plug & Play solution with PowerLogic P5
Vamp 260		Service	mars-24	mars-28	PowerLogic ION 7400	
Vamp 96		Service	mars-24	mars-28	PowerLogic PM55	
W6CP10		Service	mars-24	mars-28	METSEPM 5570	
P132		Service	30th June 2025	31/12/2033	MiCOM P139 FW 675	N/A
MiCOM P433 & P435		Service	30th June 2025	31/12/2033	MiOM P439 FW 675	N/A
MiCOM P591	2000	Obsolete	31st Dec 2020	31/12/2024	P2M-L (2Mbit/s) (Note 64kbits/s no more supported)	
MiCOM P592	2000	Obsolete	31st Dec 2011	31st Dec 2011	No replacement	
MiCOM P593	2000	Obsolete	31st Dec 2021	31/12/2024	No replacement	
MiCOM P594		Obsolete	31st Dec 2023	31st Dec 2023	Recommended :Tekron (Recommended ref for 4 Optical outputs: NTS-03-GOx9B-GG-EXPGC) https://tekron.com/	
MiCOM P595 - 1540A		Obsolete	31st Dec 2015	31st Dec 2015	No replacement	
MiCOM P595 - 1510A		Obsolete	31st Dec 2018	31st Dec 2018	No replacement	
Sepam 60 & 80		Commercialized	31st Dec.2026	31st Dec.2030	PowerLogic P7	Retrofit solution
Sepam 80 NPP		Commercialized	31st Dec.2028	31st Dec.2036	No replacement	
MiCOM Px30	2001	Commercialized	no plan	no plan		
MiCOM C434		Commercialized	no plan	no plan		
MiCOM Px40	1998	Commercialized	no plan	no plan		
PowerLogic P7		Commercialized	no plan	no plan		

Protection Relays

Feeder Automation, RTUs and Substation Controllers

Original brand: Areva, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time





Feeder Automation devices

Product Release	Release date	Lifecycle phase	End of Sales date	End of Services date	Replacement solution	Modernization process
Flair 200C		Service	31/12/2021	31/12/2026	PowerLogic T300	
Flair 212	before 2000	Service	31/07/2024	31/12/2027	No Replacement	
Flair 213	before 2000	Service	31/07/2024	31/12/2027	No Replacement	
Flair 219	1997	Service	31/07/2024	31/12/2027	No Replacement	
Flair 279	1997	Service	31/07/2024	31/12/2027	No Replacement	
Flair 5xx	2014	Service	31/07/2024	31/12/2027	No Replacement	
Flite 110-SA	before 2000	Service	31/07/2024	31/12/2027	No Replacement	
Flite 2xx	before 2000	Service	31/07/2024	31/12/2027	No Replacement	
Flite 3xx	2005	Service	31/07/2024	31/12/2027	No Replacement	
Flite 116-SA / G200	before 2000	Service	31/07/2024	31/12/2027	No Replacement	
R200		Obsolete	31/12/2022	31/12/2023	PowerLogic T300	Retrofit solution
ATS100		Obsolete	31/12/2021	31/12/2023	PowerLogic T300	Retrofit solution
PowerLogic T200		Service	31/12/2021	31/12/2027	Replacement with T300	Retrofit solution
ITI3		Service	31/12/2024	31/12/2025	T300	Retrofit solution
Saitel DR		End of Com Announced	31/12/2025	31/12/2029	PowerLogic T150	Retrofit solution
Saitel DP		End of Com Announced	31/07/2025	31/12/2029	PowerLogic T500 new range. T500 CPU (HU280) is backwards compatible with Existing SAITEL DP CPU	Retrofit solution is alredy possible with T500 for some applications. Please, contact Schneider for more information
PowerLogic T300		Commercialized	no plan	no plan		

Upgradation process:

- Type A: Different form factor, need to be rewired, different Modbus mapping.
- Type B: Same form factor, need to be rewired, different Modbus mapping. Type C: Same form factor, same wiring, different Modbus mapping.

Protection Relays

Other Vamp Protection Relays

Original brand: Schneider Electric, Areva, Vamp

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time



Protection and Control devices

Product Release	Release date	Lifecycle phase	End of Sales date	End of Services date	Replacement solution
VAMP 40	V40 VAMP 40	Service	July 31st, 2018	2026	PowerLogic P3U20
Vamp 50	V50-xx or VAMP50-xx	Service	May 31st, 2020	2028	PowerLogic P3U20
Vamp 52	V52-xx or VAMP52-xx	Service	May 31st, 2020	2028	PowerLogic P3U20
Vamp 55	V55-xx or VAMP55-xx	Service	May 31st, 2020	2028	PowerLogic P3U30
Vamp 59	V59-xx or VAMP59-xx	Service	May 31st, 2020	2028	PowerLogic P3L30
Vamp 57	V57F-xx	Service	May 31st, 2020	2028	PowerLogic P3U
Vamp 210	V210-xx or VAMP210-xx	Service	May 31st, 2020	2028	PowerLogic P3G30 / 32
Vamp 230	V230-xx or VAMP230-xx	Service	May 31st, 2020	2028	PowerLogic P3U / P3F30
Vamp 255	V255-xx or VAMP255-xx	Service	May 31st, 2020	2028	PowerLogic P3U / P3F30
Vamp 257	V257-xx or VAMP257-xx	Service	May 31st, 2020	2028	PowerLogic P3F30
Vamp 259	V259-xx or VAMP259-xx	Service	May 31st, 2020	2028	PowerLogic P3L30
Vamp 265	V265-xx or VAMP265-xx	Service	May 31st, 2020	2028	PowerLogic P3T32
Vamp 300F	V300F-xx	Service	May 31st, 2020	2028	PowerLogic P3F30
Vamp 300M	V300M-xx	Service	May 31st, 2020	2028	PowerLogic P3M30 / 32
Vamp 300G	V300G-xx	Service	May 31st, 2020	2028	PowerLogic P3G30 / 32
Vamp 300T	V300T-xx	Service	May 31st, 2020	2028	PowerLogic P3T32
V120	V120 - Arc protection unit	Service	May 31st, 2020	2028	PowerLogic A125
Vamp 11 (Release date 2016)	Vamp 11F Cortec options: V11Fxxx REL10000V to REL10055V Commercial references: REL10000V to REL10055V (worldwide) REL10040CN to REL10053CN (Chinese HMI)	Service	Sharp change, September 2021	September 2021	PowerLogic P1F - technically equivalent. REL15000 to REL15023
	Vamp 11V REL10070 to REL10093	Service	Sharp change, September 2021	September 2021	PowerLogic P1V - technically equivalent. REL15024 to REL15033
Vamp 100 series	Vamp 130	Obsolete	31/12/2011	31/12/2021	PowerLogic P3U20
	Vamp 135	Obsolete	31/12/2011	31/12/2021	PowerLogic P3U30
	Vamp 140	Obsolete	31/12/2011	31/12/2021	PowerLogic P3U20
	Vamp 150	Obsolete	31/12/2011	31/12/2021	PowerLogic P3U20
Vamp 125 series	Vamp 125 ; V125	Obsolete	31/05/2025	31/05/2025	PowerLogic A125
Vamp 220 series	Vamp 220	Obsolete	31/12/2016	31/12/2019	PowerLogic A5-V321
Vamp 221 series	V221-3xx or V221-4xx	Service	31/05/2025	Contact us	PowerLogic A5-V321
Vamp 321 series	V321-xxxxx	Service	31/03/2026	31/03/2027	PowerLogic A5-V321

Protection Relays

Other MiCOM Px20 Protection relays

Original brand: Areva, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time



MiCOM Px20

PRODUCT RANGE	PRODUCT / OPTION	Lifecycle phase	End of Sales date	End of Services date	Replacement solution
P120	E120xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5U20 or P3U20
P121	E121xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5U20 or P3U20
P122	E122xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5U20or P3U20
P123	E123xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5U20 or P3U20
MiCOM P125		Obsolete	31/12/2021	31/12/2021	Preferred PowerLogic P5F30 or P3U30
P126	E126xxxxxxxxxx	Service	31/12/2023	31/12/2030	
P127	E127xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred PowerLogic P5F30 or P3U30
P127 NFC + P922G + P925 NFC		Service	31/12/2023	31/12/2030	To replace by P5F30 ENEDIS
P220	E220xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5U20 or P5M30 or P3U30
P225	E225xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5U20 or P5M30 or P3U30
P521	E521xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5L30 or P3Lxx
P721	E721xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5U20 or P3U20
P723	E723xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5U20 or P3U20
P791		Commercialised	No plan	No plan	
P793		Commercialised	No plan	No plan	
P821	E821xxxxxxxxxx	Service	31/12/2023	31/12/2030	No replacement
P921	E921xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5V20 or P3
P922	E922xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5V20 or P3
P923	E923xxxxxxxxxx	Service	31/12/2023	31/12/2030	Preferred P5V20 or P3
MICOM P120R		Obsolete	31/12/2021	31/12/2021	PowerLogic P5
MICOM P122C		Obsolete	31/12/2014	31/12/2014	No Replacement
MiCOM P226C		Obsolete	31/12/2014	31/12/2014	No Replacement
MICOM P124D		Obsolete	31/12/2021	31/12/2021	PowerLogic P5F30
MICOM P124S		Obsolete	31/12/2021	31/12/2021	No Replacement

Protection Relays

Other Legacy Protection Relays

Original brand: Delle Alsthom, Areva, Alsthom, Gec Alstom, CEM

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time



Ex Delle Alsthom - Ex Areva - Ex CEM

Product Release	Release date	Lifecycle phase	End of Sales date	End of Services date	Replacement solution
MESURISOL MC4	1975	Obsolete	1999	2010	Replacement by Vigilohm range product
MESURISOL PL2	1975	Obsolete	1999	2010	Replacement by Vigilohm range product
MIDOS MOPN01	1989	Obsolete	2002	2010	Replacement by PowerLogic P5
MIDOS MOPN02	1989	Obsolete	2002	2010	Replacement by PowerLogic P5
MIDOS MWTU14	1989	Obsolete	2002	2010	Replacement by PowerLogic P5
MIDOS MRSU05	1989	Obsolete	2004	2010	Replacement by PowerLogic P5
OPN6000/7000	1989	Obsolete	2002	2010	Replacement by PowerLogic P5
MODN	1999	Obsolete	2006	2016	Replacement by PowerLogic P5
EPAC	1990	Obsolete	2003	2016	Replacement by MiCOM P440 range
OPN9000	1992	Obsolete	2003	2011	Replacement by PowerLogic P5
DIMAX	1975	Obsolete	1999	2009	
PADD	1985	Obsolete	2000	2016	Replacement by MiCOM P440 range
PSEL	1985	Obsolete	2006	2016	Replacement by MiCOM P440 range
PSET	1985	Obsolete	2006	2016	Replacement by MiCOM P640 range

Protection Relays

Other Legacy Protection Relays

Original brand: Delle Alsthom, Areva, Alsthom, Gec Alstom, CEM

Ex Merlin gerin

Product Release	Release date	Lifecycle phase	End of Sales date	End of Services date	Replacement solution
Vigirack	1960	Obsolete	1996	2001	Replacement by PowerLogic P1, P3, P5
RNS11 vertical	1973	Obsolete	1993	2004	Replacement by T300
RV111	1977	Obsolete	1984	2004	NO REPLACEMENT
RV110	1977	Obsolete	1984	2004	NO REPLACEMENT
RAH411 E (avant 06/93)	1979	Obsolete	1991	2004	Statimax legacy relays - Replacement by PowerLogic P5/P3
Sepam 15	1987	Obsolete	1996	2002	Replacement by PowerLogic P3/P5
VIP200/VIP201	1989	Obsolete	2005	2006	VIP4xxx
VIP11/VIP12	1990	Obsolete	1998	2009	VIP4xxx
RVH215 L	1992	Obsolete	1996	2005	T300 TbC
VIP13	1994	Obsolete	2004	2005	VIP4xxx
VIP17	1994	Obsolete	2004	2005	VIP4xxx
VIP30/VIP35	1996	Service	31/12/2016	31/12/2026	Replacement by PowerLogic P3 or VIP 4 serie
VIP300 LL / VIP300 LH	2004	Service	31/12/2016	31/12/2026	VIP 4 serie
Vigirack nucléaire	1970	Obsolete	2006	2012	Replacement by PowerLogic P5 (when qualified)
TROPIC range	1975	Obsolete	1999	2015	Replacement by PowerLogic P5
RVH213 B	1973	Obsolete	1981	2014	T300 TbC
THR	1988	Obsolete	2006	2015	Replacement by PowerLogic P5 (when qualified)
THR nucléaire	1988	Obsolete	2006	2017	Replacement by PowerLogic P5 (when qualified)
VigiPA - Pallier 86	1989	Obsolete	2005	2015	Replacement by PowerLogic P5 (when qualified)
RCV420	1973	Obsolete	2007	2015	T300
RNS11 horizontal	1995	Obsolete	2006	2015	T300
Sepam 100RT	-	Obsolete	2009	2017	NO REPLACEMENT
RV112	1984	Obsolete	2010	2023	
Sepam 1000		Obsolete	-	-	Ecofit P3 or P5
Sepam 2000, except D31/D32	1993	Obsolete	2008	2015	EcoFit with Sepam 60/80 (CTO)
Sepam 2000 D31/D32	1993	Obsolete	2015	2023	EcoFit with Sepam 60/80 (ETO)

Protection Relays

EcoFit™ Life Extension Advanced for S2000 - Order Form

Summary of data to collect and provide

End customer:	
Customer ID code:	**Country:**
Order n°:	**Contact email:**
Person to contact:	
Fax:	**Phone:**
Shipping adress:	**Expected delivery date:**

Original application	Confirmation of the original reference[1]
Motor application	
M06	
M07, M08, M14	
M02, M03, M04, M15	
M05, M09, M11, M16	
M20, M21, M22, M23	
Substation application	
S02, S07	
S06	
S03, S08, N14 (UK only)	
S09	
S01	
S04, S05	
SX1, SX2	
Busbar application	
B02, B04	
B07	
B12	
B01, B03	
Transformer application without temperature sensor	
T07, T12, T13	
T01, T09, T14, T17, T19	
T03, T06, T15, T18	
T02, T10	
T04, T11	
T05, T16	
Transformer application with temperature sensor	
T27, T32, T33	
T21, T29, T34, T37, T39	
T23, T33, T35, T38	
T22, T30	
T24, T31	
T25, T36	
Generator application	
G01, G05, G07	
G02, G06, G08	
G12, G13	
G03	
G04	
G17	
G18	
G15	
G16	
Capacitor bank application	
C02, C04, C06	
C08	
C01, C03	
Transformer and generator bloc group application	
D02, D22 (former D01, D21)	
Line application	
L66	
Other specific application not covered	
Please, confirm here	Other

Options (S60/S80)	Choice confirmation
Number of Identical EcoFit™ Life Extension Advanced for	
Sepam 2000 case type	S25/S26
	S35/S36
Man Machine Interface Type	Advanced
	Mimic based
Communication protocol (TCP/IP firmware always provided)	IEC61850 or Modbus TCP
	Modbus RS485
Communication media (if Ethernet)	RJ45
	FO
Other options from S2000	**Choice**
With customised Logipam (Y / N)[2]	Yes
	No
Required HMI language if different from EN / FR	EN (UK)
	FR
	ES
	BR
	CN
	DE
	IT
	RO
	CH (German)
	TR
	TH
	UA (Russian)
	UA
	EN (US)
Number of connected ESTOR boards	
Required polarity for logical. Inputs, when non standard: (G=220/250 VDC ; H=110/125 VDC)	Standard
	H
	G
VT connection arrangement	3 VTs
	2 VTs
	1 VT
	1 V0
	other
Sepam 2000 Power Supply voltage	24 VDC
	48 VDC
	110/125 VDC
	220/250 VDC
	220/250 VAC
	Unknown
24 VDC Power Supply delivery for the ACE949-2 Modbus module	Yes
	No
Confirm if you want a specific application (only if different from the proposed one)	S81
	S82
	S84
	M81
	M87
	M88
	T82
	T87
	G87
	G88
	B83

(1) Write a "X" in front of the original Sepam 2000 application in case of unique name, or the name of the original application if multiple choices are proposed (This selection will define the new Sepam type within the series 60 or 80, its hardware configuration and its application). The name of the original application is repeated on the EcoFit™ name plate reference.
(2) If a choice is possible betwen Sepam Serie 60 or 80, the Yes (Y) choice will force the delivery of a Sepam Serie 80. This will be the case if the original control logic provided with the Sepam 2000 has been customised or if the Sepam 2000 is connected to a supervision using different addresses for remote controls (TS/TC), than those configured in factory.

Protection Relays

EcoFit™ Life Extension Advanced for S2000 - Order Form

Summary of data to collect and provide

Complementary questions for engineering quotation	Choice	
Do you have the ability to migrate the Logipam from SEPAM 2000 source to Sepam 80 serie? (If "Yes", engineering will not be quoted, as an option)	Yes No	
If No, can you get the Logic files (*.srl) and setting file (*.par) as soft copy or only pdf form?	*.sri files pdf / paper Nothing available	
Can we consider that all selected SEPAM 2000 relays (if more than 1) have similar logic files?	Yes No Unknown	
If No, how many kind of different logics do you have within the list of Sepam relays?		
Complementary Questions for Technical Design only (from Site Survey or Electrical drawings)	**Choice**	
Can you confirm if existing Sepam 2000 is using Clock synchronisation logical input	Yes No Unknown	
If Yes, on which ESTOR board is connected this synchronisation input	ESTOR 1 ESTOR 2 Not used	
Tripping Logic with O1 contact. Confirm if existing Sepam 2000 relay is using a Normally Open (O1_NO) tripping Contact ONLY or Normally closed (O1_NC) trip contact or a Normally Open (O1_NO) for tripping logic + (O1_NC) for interlocks. If NC, an auxiliary relay will be provided and mounted to inverse the tripping logic.	NO NC NO & NC Unknown	
Are the above Sepam 2000 connected to a remote station using Modbus protocol?	Yes No Unknown	

To request a quote, please visit the EcoFit™ Life Extension Advanced web page in your country: http://ecofit.schneider-electric.com/

Protection Relays

Other Protection Relays EcoFit™ Life Extension Advanced - Order Form

Summary of data to collect and provide

Date:	
Requestor:	**Contact name:**
Contact number:	**Contact email:**
Location:	
End user name:	**End user location:**
Expected date of answer:	

Required items	Check list	Comments / Additional Information
Old Relay Pictures	☐	
Old Panel Front View Pictures	☐	
Old Panel Rear View Pictures	☐	
Existing arrangment of relays	☐	
Draw out or Non-draw out type ☐ Yes ☐ No	☐	
Existing external wiring drawing	☐	
Existing Single line diagram	☐	
Complete model number of old relay	☐	
Protection functions used in old relay	☐	
Communication Protocol used in old relay	☐	
Number of Inputs / Outputs used	☐	
Legacy relay sample available ☐ Yes ☐ No	☐	

Requestor signature	Date	Schneider Electric representative	Date

All of these informations are mandatory and have to be filled.
Please send all supportive documents with this completed request form to avoid any unnecessary delays.
To request for a quote, please use the EcoFit™ Life Extension Advanced web selector: http://ecofit.schneider-electric.com/

Distribution Automation and Substation Automation



Discover our Services.

Distribution Automation and Substation Automation

Talus or T200 S or I, R200/ATS100, RCV420 or RNS11 ..... H2

Talus or T200 E, P or I H4

Control System upgrade benefits H6

ADVC1 ..... H7

ADVC2 ..... H8

ADVC lite H9

BAY controller BM9x00 ..... H10

DCX H11

PACIS OI H12

PSCN3020 HMI H13

PTCC H14

SEEFOX HMI H15

Distribution Automation and Substation Automation

Talus or T200 S or I, R200/ATS100, RCV420 or RNS11 with PowerLogic T300

Original brand: Merlin Gerin, Schneider Electric

EcoFit™ Life Extension Advanced proposal

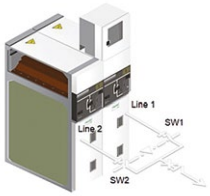


RCV420 → PowerLogic T300

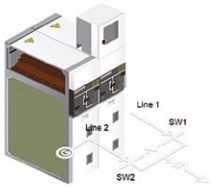


RNS11 — Easergy R200/ATS100

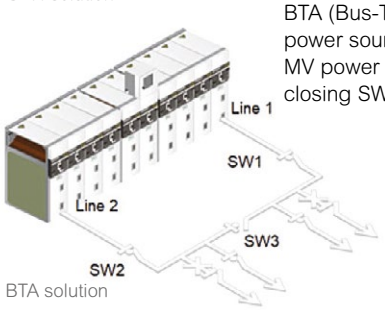
EcoStruxure Automatic Transfer System architectures



ACO solution



GEN solution



BTA solution

ACO - Automatic transfer between 2 MV lines

Standard ACO (Auto Change Over) transfers the power source to the alternate supply if the preferred source is lost. It may be set to automatically return to the preferred source when restored.

GEN - Automatic transfer with a standby generator

GEN (automatic transfer to a GENset) starts the standby generator upon loss of the distribution utility MV power source outage. An option is to combine two separate MV sources coming from the distribution utility, and one standby generator.

BTA - Automatic transfer and coupling

BTA (Bus-Tie Automatic transfer) isolates the faulty MV power source and switches both loads to the healthy MV power source, by opening SW1 (or SW2) and closing SW3 (busbar coupling).

Main technical characteristics

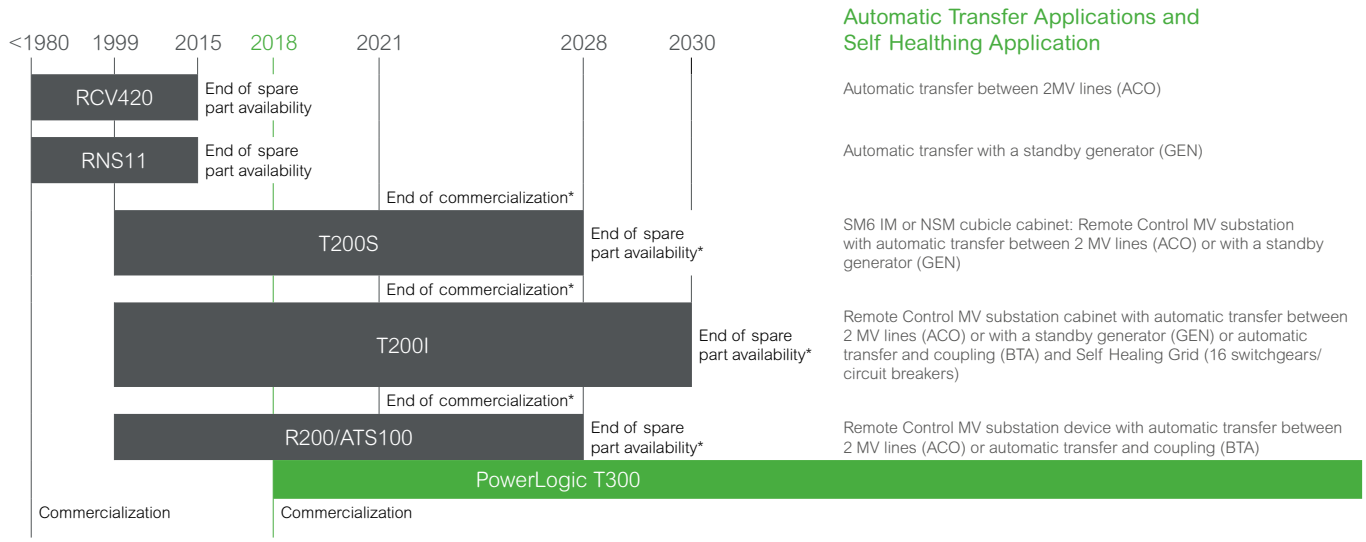
	RCV420	RNS11	T200 I	T200S	R200/ATS100	PowerLogic T300
Case / Installation	Flush mounting	Flush mounting	Cabinet	SM6 cubicle cabinet (IM or NSM)	Flush mounting	Modular for Din rail installation or cabinet
Swithgear/circuit breaker management	2	2	1 to 16	2	24 / 2 to 3	1 to 23
Uninterruptible power supply	No	No	24 or 48 VDC	24 or 48 VDC	24 or 48 VDC	24 or 48 VDC
Fault passage indicator	No	No	Yes	Yes	Yes	Yes
MV network reconfiguration automation functions	No	No	Yes	Yes	Yes	Yes
Local display and control	No	No	Yes	Yes	Yes	Yes
Communication protocols	No	No	IEC 870-5-101 and 104, DNP3/ DNP3 IP, Modbus/ ModbusTCP	IEC 870-5-101 and 104, DNP3/ DNP3 IP, Modbus/ ModbusTCP	IEC 870-5-101 and 104, DNP3/ DNP3 IP, Modbus/ ModbusTCP	Master and slave protocols: IEC 60870-5-101/ 104, DNP3, Modbus, IEC 61850 Multi-protocol and redundancy management/ Message Queuing Telemetry Transport
Web server for local and remote configuration and monitoring	No	No	Yes	Yes	Yes	Yes Embedded web server compatible with PCs, smartphones and tablet computers
IEC61131 soft PLC	No	No	Yes	No	No	Yes Sectionalizer; Auto transfer source; Self-healing and dedicated, based on IEC 61131-3 PLC
Cybersecurity management	No	No	No	No	No	Yes

Distribution Automation and Substation Automation

Talus or T200 S or I, R200/ATS100, RCV420 or RNS11 with PowerLogic T300

Original brand: Merlin Gerin, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time



* Please consult Schneider Electric

Automatic Transfer System

	RCV420	RNS11	T200 I	T200S	ATS100	PowerLogic T300 (ACO)	PowerLogic T300 (GEN)	PowerLogic T300 (BTA)
Using customizable IEC 61131-3 program	No	No	No	No	No	No	Yes	Yes
Back to normal source configurable/settable (self return mode)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fast transfer < 300 ms	No	No	No	Yes	No	Yes	No	No
Block transfer to one source configurable (no return mode)	Yes	No	Yes	Yes	Yes	Yes	No	Yes
Transfer with close transition configurable (parallel coupling mode)	No	No	Yes	Yes	Yes	No	Yes	Yes
Time slot to back to normal source	No	Yes	Yes	Yes	Yes	No	Yes	Yes
Load shedding capability	No	No	No	No	No	No	Yes	Yes
GENset test function (temporally start genset)	No	Yes	Yes	Yes	No	No	Yes	No
Transfert lock on downsteam current fault detection	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Push buttons (ATS ON/ OFF, Remote/Local, source forcing...)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interlock on digital inputs	0	0	1	1	0	2	2	3

Distribution Automation and Substation Automation

Talus or T200 E, P or I with PowerLogic T300

Original brand: Merlin Gerin, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

T200 cabinet



PowerLogic T300 cabinet





PowerLogic T300

Main technical characteristics

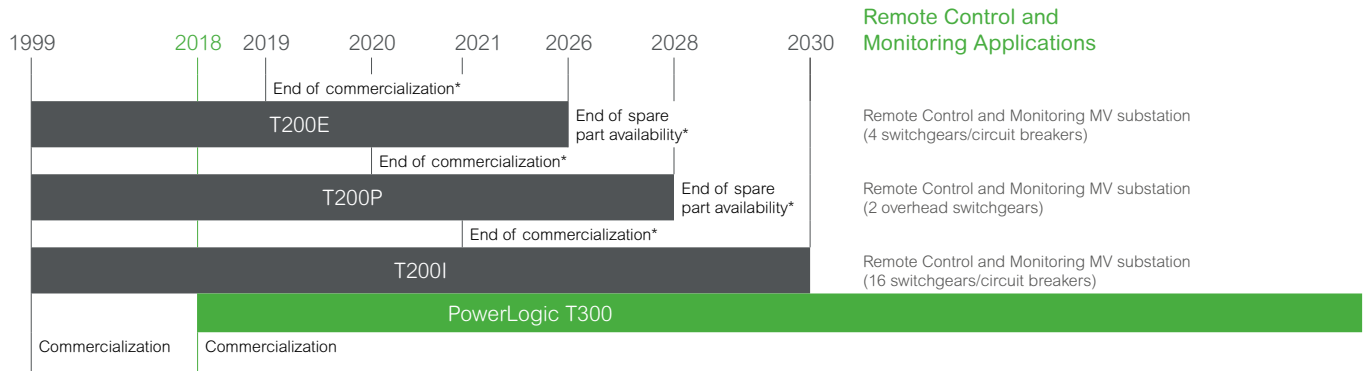
	T200 E	T200 I	T200P	PowerLogic T300
Case / Installation	Cabinet	Cabinet	Cabinet	Modular for Din rail intallation or cabinet
Swithgear/circuit breaker management	1 to 4	1 to 16	1 to 2 (overhead)	1 to 23
Uninterruptible power supply	24 or 48 VDC	24 or 48 VDC	24 or 48 VDC	24 or 48 VDC
Fault passage indicator	Yes	Yes	Yes	Yes
Current measurements	Yes	Yes	Yes	Yes
Voltage measurements	No	No	Yes	Yes
Voltage monitoring + Sensor				
MV and LV Power measurement	No	No	No	Yes according to IEC 61557-12
MV and LV Power quality	No	No	No	Yes according to IEC 61000-4-30 Class S
Protection	No	No	No	Advanced non-directional and directional fault current detection for all neutral systems MV broken conductor detection based on voltage LV broken conducteur detection (fuse detection)
MV network reconfiguration automation functions	Yes	Yes	Yes	Yes
Local display and control	Yes	Yes	Yes	Yes
Communication protocols	IEC 870-5-101 and 104, DNP3/DNP3 IP, Modbus/ ModbusTCP	IEC 870-5-101 and 104, DNP3/DNP3 IP, Modbus/ ModbusTCP	IEC 870-5-101 and 104, DNP3/DNP3 IP, Modbus/ ModbusTCP	Master and slave protocols: IEC 60870-5-101/104, DNP3, Modbus, IEC 61850 Multi-protocol and redundancy management
Transmission system	Ethernet, RS232, Radio, PSTN, GSM/GPRS, 3G, private line	Ethernet, RS232, Radio, PSTN, GSM/GPRS, 3G, private line	Ethernet, RS232, Radio, PSTN, GSM/GPRS, 3G, private line	Flexible communication media: Ethernet, 2G, 4G, RS232/485 Wi-Fi connectivity for local operation
Peer to peer communication	Yes	Yes	Yes	Yes
Calculation formulas for basic customer defined logic	Yes	Yes	Yes	Yes
IEC61131 soft PLC	No	Yes	Yes	Yes Sectionalizer; Auto transfer source; Self-healing and dedicated, based on IEC 61131-3 PLC
Web server for local and remote configuration and monitoring	Yes	Yes	Yes	Yes Embedded web server compatible with PCs, smartphones and tablet computers
Firmware and remote/local database update security	No	No	No	Yes

Distribution Automation and Substation Automation

Talus or T200 E, P or I with PowerLogic T300

Original brand: Merlin Gerin, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time



* Please consult Schneider Electric

Cybersecurity management

	T200 E	T200 I	T200P	PowerLogic T300
Compliant with IEC 62351 and IEEE P1686	No	No	No	Yes
SCADA communication security (IEC 62351-5)	No	No	No	Yes
Local and remote access security based on RBAC (IEC 62351-8)	No	No	No	Yes
Connection security for maintenance (local and remote): HTTPS, SSH	No	No	No	Yes
Protocol security for file transfer: SFTP	No	No	No	Yes
Authentication by centralized Radius client	No	No	No	Yes
Secure via TLS encryption and LDAPS authentication	No	No	No	Yes

Distribution Automation and Substation Automation

Control System upgrade benefits

Improve the performance of your automation control system with the latest technology offered by EcoStruxure Substation Operation offer and components.

Why Control Systems upgrade?

Upgrade solutions intend to improve the performance of your control system with the latest technology in computers. This is also the opportunity to benefit from computer and OS upgrading to Windows® 10 to get enhances performances and advanced features for the new HMI.

Considering the large variety of legacy control systems still in operation with limited extension and maintenance facilities, these EcoFit™ Life Extension Advanced solutions provide an opportunity to benefit of a unique HMI software and standard communication protocol based on IEC 61850.

It also provides the opportunity to upgrade the legacy protection relays, bay controllers or PLCs at downstream level by up to date hardware or software versions and standard communication protocols.

What are the benefits?

Ready for future extensions	Enables smooth and consistent legacy Control System solutions modernization.
	Open, flexible and scalable architecture facilitating aggregation of several systems at substation level.
	Easiness for future extensions.
Ease of use	Fast implementing without substation shut down, original control systems can remain in operation in most of cases.
	No modification of existing communication network protocol (Modbus TCP or IEC 61850, as well as protective relays communication protocol). This could be done step by step in further stages.
Enhance graphical features	Realtime trends of analog values as tooltip.
	Zoom in / Zoom out.
	Monitoring facilities by color bar graph status easy implementation.
Costs reduction	Cost effective solution providing advanced graphical interface features and enhanced performances.
	Secured migration managed by the manufacturer, thanks to an automatic migration tool and the use of a standard protocol.

Distribution Automation and Substation Automation

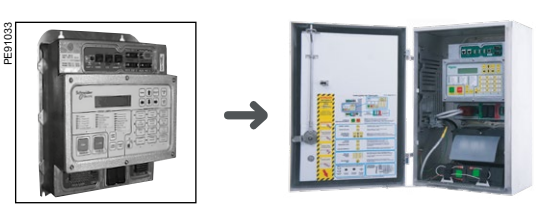
ADVC 1
with ADVC 3

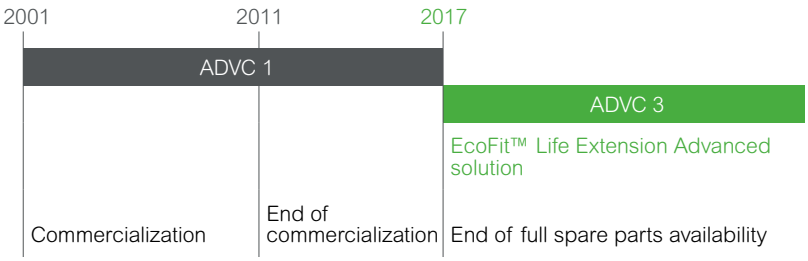
Original brand: Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

ADVC 1
Protection relay

ADVC 3
Protection relay





Main technical characteristics

	ADVC 2	ADVC 3
Design Element		
Memory	16 MB	512 MB
Storage	32 MB	1 GB
CPU Frequency	40 MHz	800 MHz
Ethernet	10 Base-T	100 Base-T
USB	N/A	USB 2.0
Communication Ports		
Ethernet	1 x 10 Base-T	2 x 100 Base-T
RS-232	4	2
RS-485	1	N/A
V23	1	N/A
USB Type B	N/A	1 x USB 2.0
USB Type A	N/A	3 x USB 2.0

Distribution Automation and Substation Automation

ADVC 2
with ADVC 3
Original brand: Schneider Electric

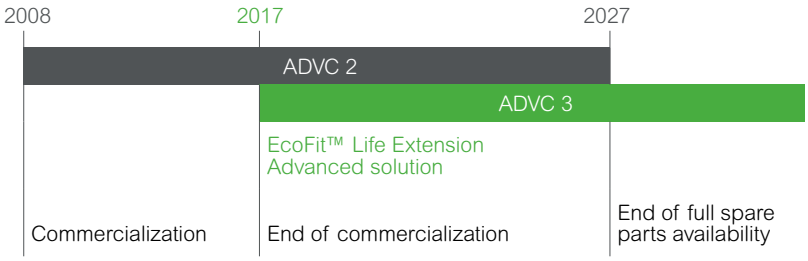
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

ADVC 2
Protection relay



ADVC 3
Protection relay





Main technical characteristics

	ADVC 2	ADVC 3
Design Element		
Memory	32 MB	512 MB
Storage	64 MB	1 GB
CPU Frequency	48 MHz	800 MHz
Ethernet	10 Base-T	100 Base-T
USB	Serial	USB 2.0
Communication Ports		
Ethernet	1 x 10 Base-T	2 x 100 Base-T
RS-232	4	2
RS-485	1	N/A
V23	1	N/A
USB Type B	1 x UART Based USB	1 x USB 2.0
USB Type A	N/A	3 x USB 2.0

Distribution Automation and Substation Automation

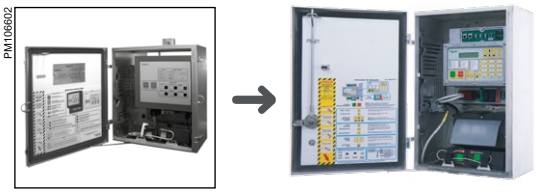
ADVC Lite with ADVC 3

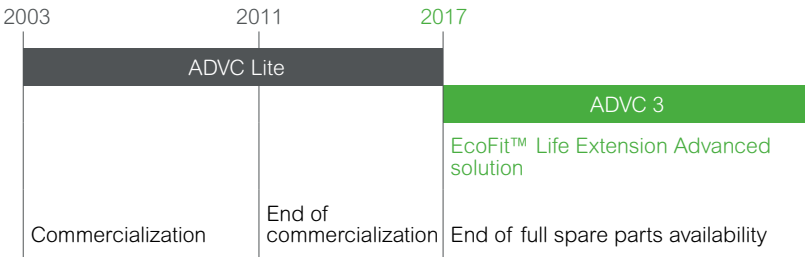
Original brand: Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

ADVC Lite
Protection relay

ADVC 3
Protection relay





Main technical characteristics

	ADVC Lite	ADVC 3
Design Element		
Memory	512 kB	512 MB
Storage	2 MB	1 GB
CPU Frequency	22.5 MHz	800 MHz
Ethernet	N/A	100 Base-T
USB	Serial	USB 2.0
Communication Ports		
Ethernet	N/A	2 x 100 Base-T
RS-232	1	2
RS-485	N/A	N/A
V23	N/A	N/A
USB Type B	1 x UART Based USB	1 x USB 2.0
USB Type A	N/A	3 x USB 2.0

Distribution Automation and Substation Automation

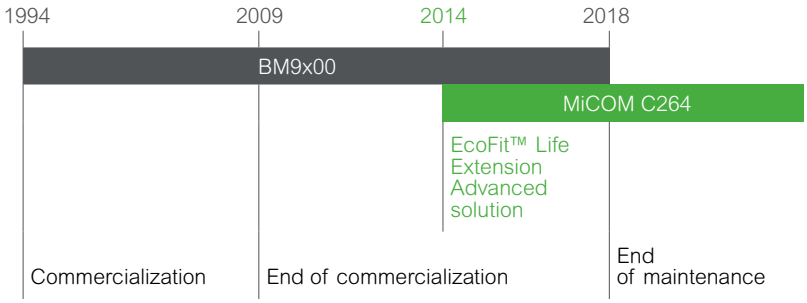
Bay controller BM9x00 with MiCOM C264

Original brand: Alstom, AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

MiCOM C264 with interface connectors





Main technical characteristics

BM9x00
Communication through legacy EFIP protocol with the SCADA level
Connection with Modbus, IEC 103 or Kbus communication with protection relays
No front side communication available for setting files management

MiCOM C264
Standard communication through IEC 61850 protocol to SCADA level
Conection with Modbus, IEC 870-5-103, IEC 870-5-101, Kbus (through K101CVT converter) and IEC 61850 protocol for downstream relays
Rugged to match substation cyber security requirements

Distribution Automation and Substation Automation

DCX
with MiCOM C264
Original brand: Alstom, AREVA

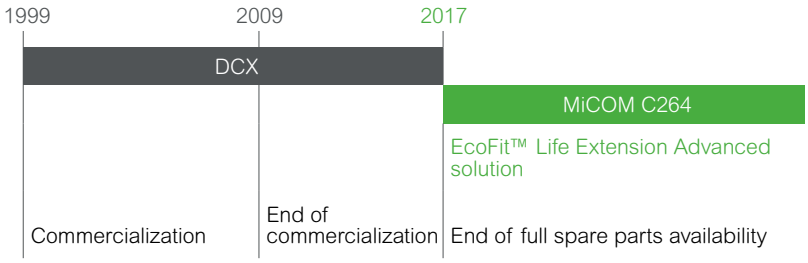
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

DCX
switchgear controller



MiCOM C264
switchgear controller





Main technical characteristics

	DCX	MiCOM C264
Installation		Plug'n play adapters original 40TE case
HMI - equipment mimic	Yes, hardware dependent	Yes, user friendly mimic configuration
Power supply	24, 48/60, 10/127, 220 V DC	24, 48/60, 10/127, 220 V DC
Digital inputs voltage	24, 48/60, 10/127, 220 V DC	24, 48/60, 10/127, 220 V DC
Communication	Modbus RTU Fixed Modbus mapping	Modbus RTU and TCP, IEC 61850 User configurated Modbus mapping

Distribution Automation and Substation Automation

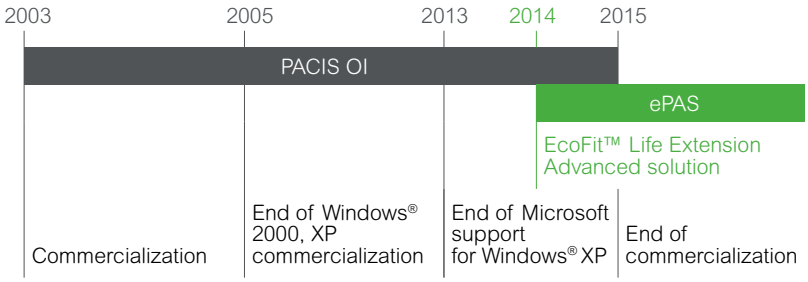
PACIS OI V3.X up to EPAS with EPAS EcoStruxure Power Automation System user interface

Original brand: AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

PACIS OI V3.X up to ePAS



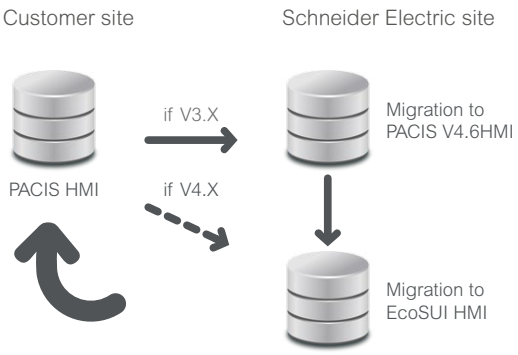


Main technical characteristics and performances

PACiS OI	ePAS EcoStruxure Power Automation System
Windows® 2000 or XP	Windows® 10 IoT Enterprise LTSC 2021
One Ethernet network management Multi-LAN through IEC/IEC Gateways	Multiple IEC 61850 client access points Direct IEC 61850 configuration by import of SCD file
Off-line modification & Time delayed deployment of database after recompilation	Immediate deployment of database modification
Redundancy switch over within 1 mn	Hot redundancy seamless switchover
Maximum handled dataflow 100 Measured Values archived/sec/server	Handled dataflow up to 3000 MV archived/sec/server

PRODUCT Realease	Release date	Lifecycle phase	End of Services date	Limited support up to	Modernization solution
PACiS v3.x		Obsolete		12/2017	EPAS current version
PACiS v4.x		Obsolete		07/2021	EPAS current version
PACiS v5.1		Obsolete		07/2022	EPAS current version
PACiS v5.2		Obsolete		12/2022	EPAS current version
PACiS v6.1		Obsolete		01/2024	EPAS current version
PACiS v6.3		Obsolete		01/2024	EPAS current version
PACiS v6.4.1 to v6.4.3		Limited Service			EPAS current version
PACiS v6.4.4	10/2024	Commercialized			

Typical HMI upgradation path



What are the benefits?

- No impact on existing ethernet network, bay controllers, gateways & IEDs, as well as electrical drawings or process wiring
- Fast implementing without substation shutdown
- Secure migration managed by the manufacturer
- Cost effective solution providing advanced graphical interface features, enhanced performances
- Easiness for future extensions
- Cyber security inforcement solution
- Open to Schneider Electric asset performance and monitoring system

Distribution Automation and Substation Automation

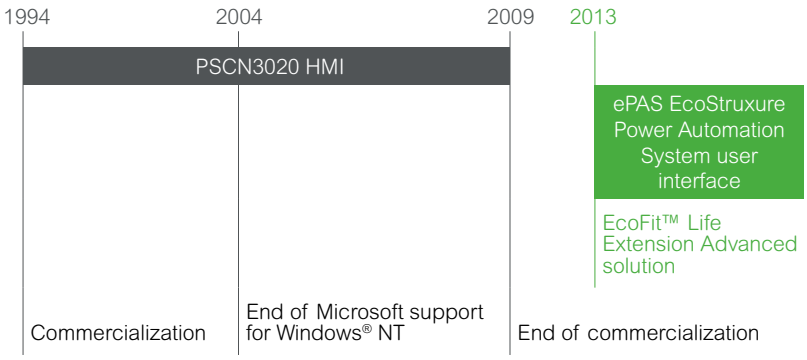
PSCN3020 HMI with ePAS EcoStruxure Power Automation System user interface

Original brand: AREVA

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

PSCN3020

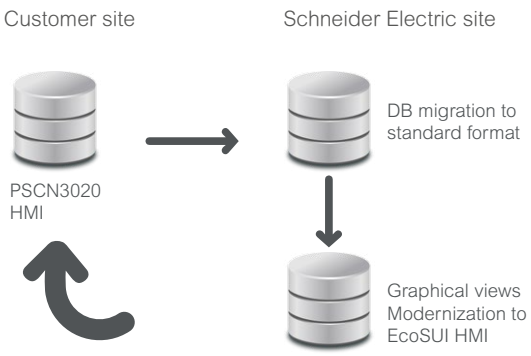




Main technical characteristics

PSCN3020 HMI	ePAS EcoStruxure Power Automation System
Windows® NT4 OS / 2	Windows® 10 IoT Enterprise LTSC 2021
One EFIP network management	Open to Ethernet IEC 61850 for all future extension and step by step replacement of bay controllers
Configuration & database generation using proprietary & obsolete software	Direct IEC 61850 configuration by import of SCD file for all new extensions
Redundancy switch over within 1 mn	Hot redundancy seamless switchover
Handled dataflow limited by EFIP protocol	Handled dataflow up to 3000 MV archived / sec / server, once fully migrated to IEC 61850

Typical HMI migration steps by the manufacturer



What are the benefits?

- No impact on existing ethernet network, bay controllers, gateways & IEDs, as well as electrical drawings or process wiring
- Fast implementing without substation shutdown
- Original HMI can remain in operation
- Secure migration managed by the manufacturer
- Cost effective solution providing advanced graphical interface features, enhanced performances
- System ready for step by step retrofit of bay controllers, gateways and IEDs
- Open to future extensions on IEC 61850 network

Distribution Automation and Substation Automation

PTCC
with ADVC 3
Original brand: Schneider Electric

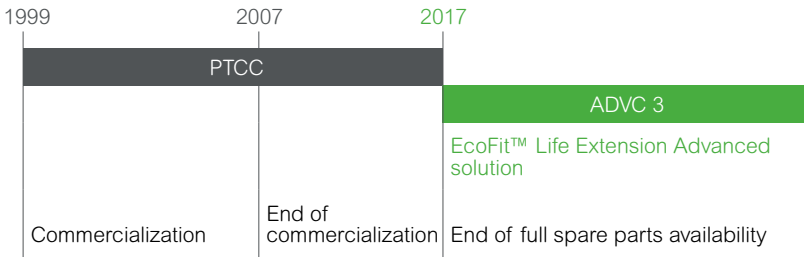
EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

PTCC
Protection relay



ADVC 3
Protection relay





	PTCC	ADVC 3
Design Element		
Memory	512 kB	512 MB
Storage	2 MB	1 GB
CPU Frequency	22.5 MHz	800 MHz
Ethernet	N/A	100 Base-T
USB	N/A	USB 2.0
Communication Ports		
Ethernet	N/A	2 x 100 Base-T
RS-232	3	2
RS-485	N/A	N/A
V23	1	N/A
USB Type B	N/A	1 x USB 2.0
USB Type A	N/A	3 x USB 2.0

Distribution Automation and Substation Automation

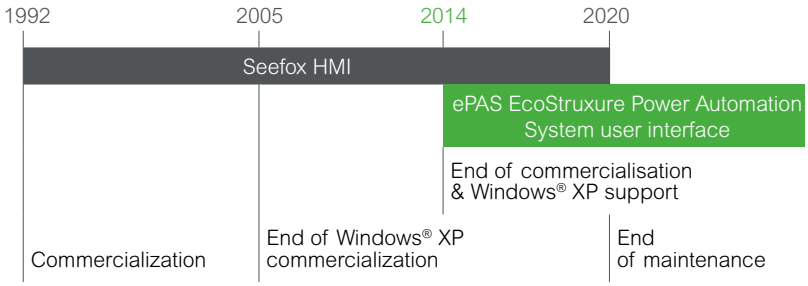
Seefox HMI with ePAS EcoStruxure Power Automation System user interface

Original brand: Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

ePAS EcoStruxure Power Automation System user interface

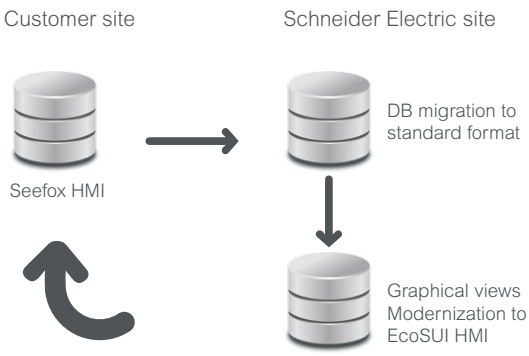




Seefox HMI
Windows® XP or older
Based on third party HMI limited to Modbus TCP or Modbus + communication protocol
Configuration tools no more supported or with limited upgrade facilities

ePAS EcoStruxure Power Automation System
Full Schneider Electric HMI and tools design operating on Windows® 10 IoT Enterprise LTSC 2021
IEC 61850 native in modeling configuration and communication
Ready for all standard substation extension using IEC 61850 standard
Compliant with substation cyber security requirements

Typical HMI migration steps by the manufacturer



What selecting an EcoFit™ Life Extension Advanced solution?

- Fast implementing without substation shutdown
- Original HMI can remain in operation
- Cost effective solution providing advanced graphical interface features, enhanced performances
- Open to future extensions on IEC 61850 network
- Worldwide support for software, spare parts, substation extensions and maintenance contracts

Digital Power solutions



Discover EcoFit™: Modernization and circularity services.

Digital Power solutions

AccuSine PCS or PFV I2
AccuSine SWP I3
Varset I4
Varlogic I5
PM, ME, iME & EN basic meters I6
CM, DM, ION & PM meters I8
ION-E, SPM & PME software versions I9
Power Manager software versions I10
PLS & PSO software versions I11
XM, XL, XML, XD, XLI, XTU I12
AREVA MRxxx Insulation meters I13
PowerTag Link, Smart Link SIB and Legacy Gateways I14

REMEMBER

Full Support

- Technical investigation and assistance for customer issues, including creation of critical and cybersecurity hotfixes where deemed necessary by the factory

Limited Support

- Answering questions
- When possible, providing workarounds and fixes that are available for known problems but no new hotfixes or cybersecurity hotfixes for new issues
- Provide information on migration to a newer product release that has Full Support

Digital Power solutions

AccuSine PCS or PFV with PowerLogic AccuSine PCSP or PFVP

Active Harmonic Filtering

Original brand: Square D, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

AccuSine PCS or PFV
LV Active Power Factor correction



PowerLogic AccuSine PCSP & PFVP
LV Active Power Factor correction



Product Release	Release date	Lifecycle phase	End of Sales date	End of Services date	New recommended solution
AccuSine PCS (3ph)	1999	Obsolete	12/2015	12/2023	PowerLogic AccuSine PCSP
AccuSine PFV (3ph)	1999	Obsolete	12/2015	12/2023	PowerLogic AccuSine PFVP
AccuSine PCSP	2015	Commercialized			
AccuSine PFVP	2015	Commercialized			

- **Upgradation process:** Panel or wall mounted case replacement
- **Recommended engineering:** PQ audit or local measurement from point of control recommended
- **Limitation scope**
  - Units with a Digital Interface Module (DIM) are not serviceable, Shipped before Oct 2008 (WO0810xxxx).
    Units with this Keypad / Display module, must be replaced with AccuSine PCSP
  - All other models with SN prior to October 2010 (WO1010xxxx), are not serviceable and should be replaced



Main technical characteristics

	AccuSine PCS or PFV	AccuSine PCSP or PFVP
Performances	- Filtering degree: TDD ≤ 5% - Harmonic attenuation factor: 10:1 - Faster dynamic VAR support @ ½ cycle	Vastly improved - Filtering degree: THDi ≤ 3% - Harmonic attenuation factor: 20:1 - Faster dynamic VAR support @ ¼ cycle
Heat losses (300A unit)	- 400V: 8.3kW - 480V: 10kW	- 400V: 5.9kW - 480V: 7kW
Operational capability	Target PF	Target THDi or THDv setpoint Target PF Optimized PF
Footprint & Modes of Installation	Wall mounted & Floor standing	Reduced footprint from 17% to 41% IP00 Chassis for retrofit, IP20 / UL Type 1 (Wall Mounted) Floor standing
Redundancy	Load share only	Multi-master/multi-slave Master-Slave Load share and make up capacity
Connectivity to monitoring systems for performance validation		EcoStruxure Power ready. Native device driver PME, PQ Advisor, Com'X510 Modbus RTU or TCP/IP
Serviceability	Modbus TCP/IP	Diagnostics via laptop USB to Control Board
User Interface	Key pad interface	Larger screen with more information provided Easier to read with excellent color graphics
Compatibility with AccuSine PCS/PFV		100% compatible with AccuSine PCS/PFV for parallel operations

Digital Power solutions

AccuSine SWP with AccuSine PCSn

Active Harmonic Filtering Original brand: MGE, APC, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

AccuSine SWP
LV Active Power Factor correction



AccuSine PCSn
LV Active Power Factor correction



Product Release	Release date	Lifecycle phase	End of Sales date	End of Services date	New recommended solution
AccuSine SWP / SineWave APC (3ph+Ground)	1998	Obsolete	09/2019	12/2029	AccuSine PCSn
AccuSine PCSn	2018	Commercialized			

- **Upgradation process:** Panel or wall mounted case replacement
- **Recommended engineering:** PQ audit or local measurement from point of control recommended

Product evolution



- SineWave APC
- PF target 1.0 cap/ind
- Thermal improvment
- 35°C operating temperature



- SWP+ project: AccuSine PCSn
- Integrated in AccuSine+ family
- Latest UVP in the market
- Building bricks from AccuSine+
- Withdrawal of SWP



- SineWave MGE
- Primarly used coupled with UPS
- 2nd to 25th harmonic spectrum
- 25°C operating temperature



- Refresh project
- SinWave ⇨ AccuSine SWP
- 2nd to 50th harmonic spectrum
- EMC perf. & 3ph3w enhancements
- Modbus capable
- Magelis HMI (2015:17)



Main technical characteristics

	AccuSine SWP	AccuSine PCSn
Performance	THDi ≤ 5%	THDi ≤ 3%
Lower losses	2-level IGBT ≤ 2400W (60A)	3-level IGBT ≤ 1500W (60A)
Operational modes	Harmonic + PF mitigation	Harmonic + PF + load balancing
Smaller footprint (60A wall mount)	780 x 590 x 325 mm	960 x 440 x 265 mm, wall mount
Installation type	Wall mount	Wall mount, Chassis, rack mount
Operator display	Keypad	Magelis HMI touchscreen
Operator menu	None	Built on AccuSine+ platform
Parallel operation	Up to 4 units, same rating	Up to 12 units, any rating
Inter-operability with AccuSine PCS+	None	Can work in parallel with AccuSine PCS+, integratd into EcostruXure Power

Digital Power solutions

VarSet
with PowerLogic PFC or PowerLogic AccuSine EVCP

Power Factor Correction Equipment
Original brand: Merlin Gerin, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

Varset and Varset Fast
wall mounted or panel versions



PowerLogic PFC
wall mounted or panel versions



or

PowerLogic AccuSine EVC+
wall mounted or panel versions



Product Release	Release date	Lifecycle phase	End of Sales date	End of Services date	Replacement Solution & Modernization process
Rectimat² (SD,H,SAH)		Obsolete	09/2006	09/2016	PowerLogic PFC Capacitor Bank & re-engineering due to load change condition...
VarplusM (previous version of Varplus2)		Obsolete	12/2006	12/2016	PowerLogic PFC Capacitor & Re-engineering
Rectibloc (version "fixed" of Rectimat)		Obsolete	09/2006	09/2016	PowerLogic PFC Capacitor Bank & re-engineering
Thyrimat (previous version of Varsetfast)		Obsolete	03/2007	03/2017	PowerLogic AccuSine EVCP or AccuSine & re-engineering
Varplus2 (stand alone condensator)		Obsolete	12/2012	12/2020	PowerLogic PFC Capacitor
Varset direct (fixed)	2006	Obsolete	04/2013	04/2021	PowerLogic PFC Capacitor Bank; refer to substitution guide (EVCP can offer fixed VAR's)
Varset fast	2006	Obsolete	04/2013	04/2021	PowerLogic AccuSine EVCP; refer to substitution guide EVCP
Varset classic (not polluted)	2006	Obsolete	04/2013	04/2021	EasyLogic PFC Capacitor Bank "no polluted"
Varset comfort (low polluted)	2006	Obsolete	04/2013	04/2021	PowerLogic PFC Capacitor Bank "low polluted"
Varset harmony (poluted)	2006	Obsolete	04/2013	04/2021	PowerLogic PFC Capacitor Bank "polluted"
Varpact (classic, comfort, harmony)	2006	Obsolete	04/2013	04/2021	Varpact R stand alone module (condo, contactor, fuse or CB)
Reactivar (NEMA Market)		Services	06/2023	06/2025	PowerLogic PFC Smart Capacitor bank for NEMA market

- **Upgradation process:** Refer to substitution guides. Replacement of stand alone components may be also possible depending on obsolescence date.
- **Recommended Engineering:**
  PQ audit or local measurement from point of connection is recommended due to load change condition from first installation.
- **Life time reduction factors:** 7 years without maintenance on condensator or operation out of normal operating ranges.
- **Selection Guide:**

Load variation	Compensation to choose	Network harmonic pollution level	Replacement Solution
Variable or unstable load	Automatic	No polluted (Gh/Sn ≤ 15 %, Thdu ≤ 3 %; Thdi ≤ 5 %)	EasyLogic PFC Easy for "no polluted network".
		Low polluted (Gh/Sn ≤ 25 %, Thdu ≤ 4 %; Thdi ≤ 10 %)	PowerLogic PFC for "low polluted network".
		Polluted (Gh/Sn ≤ 50 %, Thdu ≤ 7 %; Thdi ≤ 20 %)	PowerLogic PFC for "polluted network".
Stable load	Fixed	Low polluted (Gh/Sn ≤ 25 %, Thdu ≤ 4 %; Thdi ≤ 10 %)	PowerLogic PFC for "low polluted network".
		Polluted (Gh/Sn ≤ 50 %, Thdu ≤ 7 %; Thdi ≤ 20 %)	PowerLogic PFC for "polluted network".

Main technical characteristics

	With PowerLogic PFC	With PowerLogic AccuSine EVCP
Performance	More Safety, Reliability & Performance. Enclosure system improvement. 100 % Schneider Electric inside	Fully certified to UL and IEC standards. Can operate up to 50°C without derating.
Operational modes	PF regualtion by Fixed or gradual compensation banks	Delivers PF Correction (within ¼ cycle). Not only delivers reactive power to correct for lagging PF, but can also correct leading PF. AccuSine EVCP can correct current and voltage imbalance, as well as filter major orders harmonic currents like (5, 7, 11 & 13th).
Other Technical Characteristics	Long-life performance Capacitors with extra-overcurrent performance: - EasyLogic PFC Capacitor: 1,5 x In - PowerLogic PFC Capacitor: 1,8 x In Thermal probe to protect against overtemperature and harmonic overload	**Between 10 - 12 years under ideal working conditions.**
Operator display	Front panel display & Integrated communication	
Advanced measurement & monitoring	Real time monitoring of capacitors (remaining power available and variation, number of switches...): - 4 quadrant operations	Inbuilt waveform capture Setpoints configurable USB communications port - Download commissioning report, diagnostic files
Remote monitoring	Connectable ready with additional thermal sensor, fire prevention and Fans efficiency control (option)	Modbus RTU, Modbus TCP/IP

Digital Power solutions

Varlogic
with EasyLogic PFC and PowerLogic PFC controller
Power Factor Correction controller
Original brand: Merlin Gerin, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

Varlogic



EasyLogic EL Series



or

PowerLogic PFC VPL series



Product Release	Release date	Lifecycle phase	End of Sales and Full spare parts date	Replacement Solution & Modernization process
R6	2005	Obsolete	2009	Replaced with EasyLogic PFC EL Series
R12	2005	Obsolete	2009	Replaced with EasyLogic PFC EL Series
RC12	2005	Obsolete	2009	Replaced with EasyLogic PFC EL Series
Varlogic NR6	2009	Obsolete	2016	Replaced with PowerLogic PFC VPL Series
Varlogic NR12	2009	Obsolete	2016	Replaced with PowerLogic PFC VPL Series
Varlogic NRC12	2009	Obsolete	2016	Replaced with PowerLogic PFC VPL Series
Varlogic RT6, RT8, RT12, Medium offer	2009	Commercialized		
VarPlus Logic VL6, VL12, Optimum offer	2014	Commercialized		

Main technical characteristics

	VarPlus Logic series
Capacitor bank step monitoring	Monitoring of all the connected capacitor steps. Real time power in "kvar" for the connected steps. Remaining step capacity per step as a % of the original power since installation. Derating since installation. Number of switching operations of every connected step.
System Measurement and monitoring	THD(u) and THD(i) Spectrum 3rd to 19th – Measurement, Display and Alarm. Measurement of DQ – "kvar" required to achieve target cos phi. Present cabinet temperature and maximum recorded temperature. System parameters – Voltage, Current, Active, reactive and apparent power. Large LCD display to monitor real step status and other parameters.
Easy Commissioning	Automatic Initialization and automatic step detection to do a auto commissioning. Automatic wiring correction - voltage and current input wiring correction. 1 A or 5 A CT secondary compatible.
Flexibility to the panel builder and retrofitting	No step sequence restriction like in the traditional relays. Any step sequences with auto detect. No programming needed. Easy to retrofit the faulty capacitor with different power. Quick and simple mounting and wiring. Connect to the digitized Schindler solutions through RS485 communication in Modbus protocol. Seamless connection to the Schneider software and gateways.
Do more with PowerLogic PFC	Programmable alarms with last 5 alarms log. Suitable for medium voltage applications. Suitable for 4 quadrant operations. Dual cos phi control through digital inputs or export power detection. Dedicated alarm and fan control relays. Advance expert programming Menu to configure the controller the way you need. Control algorithm designed to reduce the number of switching operations and quickly attain the targeted power fact.
Alarms	Faulty Step. Configurable alarm for step derating. THDu Limit alarm. Temperature alarm. Self correction by switching off the steps at the event of THDu alarm, temperature alarm and overload limit alarm. Under compensation alarm. Under/Over Voltage Alarm. Low/High Current Alarm. Overload limit alarm. Hunting alarm. Maximum operational limits - Time and number of switching.

Digital Power solutions

PM, ME, iME, EN basic meters with new range

DIN rail Power Meters

Original brand: Schneider Electric, Square D

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time



Legacy Product					Replacement solution		
Product range	**Description**	**Com. Ref.**	**Lifecycle Phase**	**End of Sales and Full spare parts date**	**Product range**	**Description**	**Com. Ref.**
PM9	DIN RAIL, 230 VAC Aux. Power	15199	Obsolete	09/2012	PM3200	Power Meter	METSEPM3200
PM9P	DIN RAIL, 1 Pulse Output, 230 VAC Aux. Power	15197	Obsolete	09/2012	PM3210	Power Meter, Pulse	METSEPM3210
PM9C	DIN RAIL, MODBUS Com, 230 VAC Aux. Power	15198	Obsolete	09/2012	PM3250	Power Meter, Modbus	METSEPM3250
ME3	3ph Modular Energy Meter, 400 V, 0 to 63 A	17075	Obsolete	09/2012	iEM3100	3ph. Energy Merter, kWh, 63A	A9MEM3100
ME3zr	3ph Modular Energy Meter, 400 V, 0 to 63 A	17076	Obsolete	09/2012	iEM3110	3ph. Energy Merter, kWh, 63A pulse MID	A9MEM3110
ME4	3ph+N Modular Energy Meter, 400 V, 0 to 63 A	17070	Obsolete	09/2012	iEM3100	3ph. Energy Merter, kWh, 63A	A9MEM3100
ME4zr	3ph+N Modular Energy Meter, 400 V, 0 to 63 A	17071	Obsolete	09/2012	iEM3110	3ph. Energy Merter, kWh, 63A pulse MID	A9MEM3110
ME4zrt	3ph+N Modular Energy Meter, 400 V, 40 to 6000 A	17072	Obsolete	09/2012	iEM3210	Compteur kWh triphasé TC pulse MID	A9MEM3210
Acti9, iME3	3ph Modular Energy Meter, 400 V, 0 to 63 A	A9M17075	Obsolete	09/2012	iEM3100	3ph. Energy Merter, kWh, 63A	A9MEM3100
Acti9, iME3zr	3ph Modular Energy Meter, 400 V, 0 to 63 A	A9M17076	Obsolete	09/2012	iEM3110	3ph. Energy Merter, kWh, 63A pulse MID	A9MEM3110
Acti9, iME4	3ph+N Modular Energy Meter, 400 V, 0 to 63 A	A9M17070	Obsolete	09/2012	iEM3100	3ph. Energy Merter, kWh, 63A	A9MEM3100
Acti9, iME4zr	3ph+N Modular Energy Meter, 400 V, 0 to 63 A	A9M17071	Obsolete	09/2012	iEM3110	3ph. Energy Merter, kWh, 63A pulse MID	A9MEM3110
Acti9, iME4zrt	3ph+N Modular Energy Meter, 400 V, 40 to 6000 A	A9M17072	Obsolete	09/2012	iEM3210	3ph. Energy Merter, kWh, CT pulse MID	A9MEM3210
EN40	Energy meter 40 A	15238	Obsolete	09/2009	iEM2000	Energy meter 40A	A9MEM2000
EN40P	Energy meter 40 A, pulse output	15239	Obsolete	09/2009	IEM2010	Energy meter 40A, pulse output	A9MEM2010

Digital Power solutions

PM, ME, iME, EN basic meters with new range

DIN rail Power Meters

Original brand: Schneider Electric, Square D

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time





















Product Release	Release date	Lifecycle phase	End of Sales and Full spare parts date	Replacement solution	Modernization process
PM200 & PM200Px & PM210		Obsolete	12/2016	- PM2210 or PM2220 (for countries where PM2200 range is launched) - PM5100 or PM5110 (for all other countries)	Type C for PM2000 range Type B for PM5000 range
PM810		Obsolete	01/2016	PM5500	Type B
PM1000, PM1200		Obsolete	12/2016	- PM21xx (for countries where PM2200 range is launched) - PM5100 or PM5110 (for all other countries)	Type C for PM2000 range Type B for PM5000 range
PM2000, PM2200	2016	Commercialized	no plan		
PM32xx (xx=00,10, 50, 55)	June, 2012	Commercialized	no plan		
PM5100, PM5300, PM5500 serie	March, 2013	Commercialized	no plan		
DM2000 and DM2000xx (Chinese market only)		Commercialized	no plan		
DM6000, DM6200		Obsolete	06/2018	DM6000H & DM6200H	
DM6100, DM6300		Commercialized	no plan		
iEM 2xxx (worldwide launch)	2011	Commercialized	no plan		
iEM 2110, 2135, 2150 iEM 2155	2011	Obsolete	06/2023	- A9MEM2455: Alternate reference against A9MEM2110, A9MEM2150 & A9MEM2155 - A9MEM2435: Alternate reference against A9MEM2435	Type C
iEM 3xxx (worldwide launch)	2011	Commercialized	no plan		
EM1000 / EM1200 (Conzerv products)		Commercialized	no plan		
EM64xx serie (Conzerv products)		Obsolete	12/2019	EM64xxH series	
EM6400NG (Conzerv products)	Dec. 2015	Commercialized	no plan		
EM64xxH serie (Conzerv products)	Jan. 2017	Commercialized	no plan		
EM3500 serie (Veris products)		Commercialized	no plan		
EM4000, EM4200 (Veris Products)	2017	Commercialized	no plan	Refer to commercialized references	
EM 4300, WT4200 wireless energy meter	2015	Obsolete	12/2019	PowerTag Rope starting June 2020	
EM4800, EM4900		Commercialized	no plan		
ION6200		Services > Obsolete	12/2020	- Essential replacement: METSEPM5110 - LVDC power supply: METSEPM5580 - LED Display: METSEPM2130 - Remote Display: METSEPM5563RD - ION framework support: METSEPM8210 (ION meter with 24 VDC power supply)	
ION7300		Obsolete	12/2016	PM5500	

Note: Products (PM200, PM2000 and PM5000) are 96 mm x 96 mm flush mount meters with varying depths

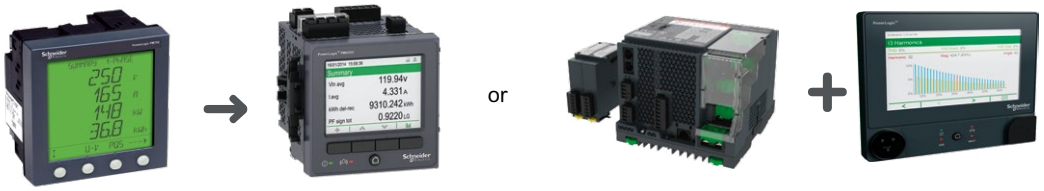
Upgradation process: Type A: Different form factor, need to be rewired, different Modbus mapping. Type B: Same form factor, need to be rewired, different Modbus mapping. Type C: Same form factor, same wiring, different Modbus mapping

Digital Power solutions

CM, DM, ION, PM meters with PMxxxx range & ION9000

Power and Power Quality Meters
Original brand: Schneider Electric, Square D

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time



Product Release	Release date	Lifecycle phase	End of Sales and Full spare parts date	Replacement solution	Modernization process
CM4250		Obsolete	12/2010	ION9000	Type A
CM4000T		Obsolete	12/2019	ION9000T (Fast Transient Voltages version)	Type A
ION7550 & 7650 Phase 1		Obsolete	09/2019 (see note 4)	ION9000	
ION7550 & 7650 Phase 2		Obsolete	03/2021 (see note 4)	ION9000	
PM500 (note 2)	2006	Obsolete	06/2007	PM5100	Type B
PM700, PM700P and PM710		Obsolete	04/2015	PM5100	Type B
PM750		Obsolete	04/2015	PM5300	Type B
PM820		Obsolete	01/2016	PM5500	Type B
PM850 and PM870		Obsolete	01/2016	PM8000	Type B
PM8000	03/2015	Commercialized	no plan		
ION9000	10/2018	Commercialized	no plan		
ION 7330 & ION7350		Obsolete	2016	PM8000	
ION7400 Utility Meter	10/2016	Commercialized	no plan		
ION8650 Utility Meter	06/2011	Commercialized	no plan		
ION8800 Utility Meter	07/2006	Service	31/12/2024 (see note 5)	ION7400 or ION9000 depending on features required. contact us.	Type B
BCPM	2008	Service	31/12/2024 (see note 6)	HDPM6000	Type A

- **Upgrade process:** Type A: Different form factor, need to be rewired, different Modbus mapping. Type B: Same form factor, need to be rewired, different Modbus mapping. Type C: Same form factor, same wiring, different Modbus mapping
- **Note 2:** PM5000 are 96mm x 96mm flush mount meters with varying depths
- **Note 4:** ION7550 & 7650, can be repaired, up to Sept. 2024 (phase 1 models) and March 2026 (phase 2 models)
- **Note 5**: ION8800 : Schneider Electric will continue to provide support up to Jan. 01st, 2030
- **Note 6**: BCPM Multi-Circuits meter can still be repaired until 2032-12-31

Main technical characteristics

	PMx000, ION9000
Compliance with standards	Complying with most demanding international metering standards
Security	96 mm (3.5") color display: Simple installation with a 30 mm pushbutton hole (reduces arc flash exposure)
Modular architecture	Multiple mounting and communication options: Adaptable to meet the needs of rapidly changing, IoT-enabled electrical networks
IoT connectivity	Compatible with meter insights application

Digital Power solutions

ION-E, SPM & PME software versions with EcostruXure Power Monitoring Expert (PME)

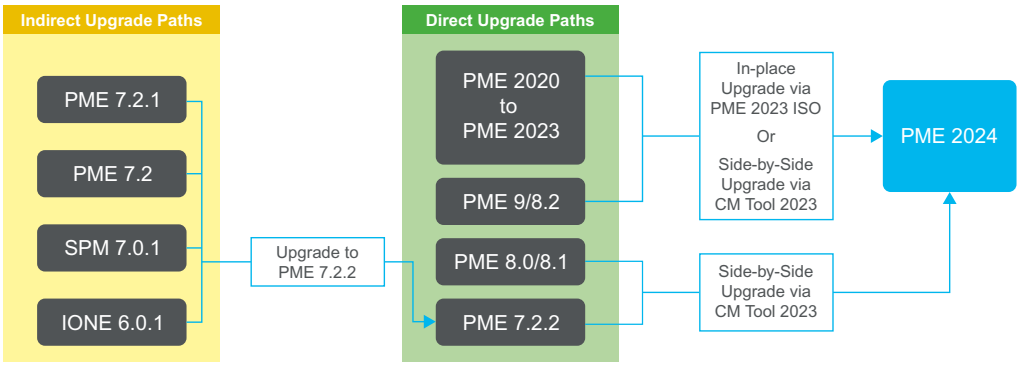
Power Monitoring Expert
Original brand: ION-E

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time



Product Release	Release date	Lifecycle phase	End of Sales date	End of full support up to	Limited support up to	Modernization Solution version
ION-E 6.0	06/2009	Obsolete	03/2012	06/2013	06/2015	PME latest version
SPM 7.0	03/2012	Obsolete	09/2013	06/2015	12/2017	PME latest version
PME 7.2	09/2013	Obsolete	06/2015	12/2016	12/2018	PME latest version
PME 8.0	06/2015	Obsolete	04/2016	12/2018	12/2020	PME latest version
PME 8.1	04/2016	Obsolete	04/2017	12/2019	12/2021	PME latest version
PME 8.2	04/2017	Obsolete	09/2018	12/2020	12/2022	PME latest version
PME 9.0	09/2018	Obsolete	12/2019	12/2021	12/2023	PME latest version
PME 2020	11/2019	Obsolete	04/2021	12/2022	12/2024	PME latest version
PME 2021	05/2021	Limited Service	07/2022	12/2023	12/2025	PME latest version
PME 2022	07/2022	Limited Service	07/2023	12/2024	12/2026	PME latest version
PME 2023	08/2023	Full Service	10/2024	12/2025	12/2025	PME latest version
PME 2024	10/2024	Commercialized				

- **Upgradation process:**
  - Existing database (configuration file) can be extracted directly from the server and communicated to the Technical Support.
  - Upgrade tools existing. As the system is usually not redundant, shut down of the current version is recommended.
  - Commissioning can be done by Local Field & Services team depending on training level.
- **Recommended Engineering:**
  - Upgradation must be done by Application Centers or Technical Support teams or EcoXpert.
  - Workload (engineering work) could be affected in case of customized reports
- **Limitation scope:** In case the Server is not replaced, the existing computer must support Windows® 10
- **Application case with PSO:** Application case of PSO delivered with Advanced Monitoring option (PME): same process but both software need to be upgaded
- **New release advantages:**
  - Windows® 10 compatibility
  - Enhance performances and new features
- **PME 2022 upgrade Paths:**





PME 2024 software support matrix

Windows Operation Systems	Windows 10 Professional/Enterprise Windows Server 2012 Standard or 2012 R2 Standard/Enterprise Windows Server 2016, 2019 Standard
SQL Server Versions	SQL Server 2012 Express/Standard/Enterprise/Business Intel. SP2 SQL Server 2014, 2016, 2017 Express/Standard/Enterprise/Business Intel.
Browser	Firefox, Chrome, Safari, Opera
Office	Excel 2013, 2016 and 365

Digital Power solutions

Power Manager or Energy Expert software versions with EcoStruxure Power Monitoring Expert

EcoBuilding (eBO) applications
Original brand: Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

Power Manager software or Energy Expert software → EcoStruxure Power Monitoring Expert



Product Release	Release date	Lifecycle phase	End of Sales date	End of full support up to	Limited support up to	Modernization Solution version
Power Manager 1.0	02/2015	Obsolete	12/2015	12/2018	12/2020	PME current version
Power Manager 1.1	12/2015	Obsolete	04/2016	12/2018	12/2020	PME current version
Power Manager 1.2	04/2016	Obsolete	04/2017	12/2019	12/2021	PME current version
Power Manager 1.3	04/2017	Obsolete	08/2018	12/2020	12/2022	PME current version
Energy Expert 2.0	08/2018	Obsolete	12/2020	12/2021	12/2023	PME current version
Energy Expert 3.0	11/2019	Obsolete	12/2020	12/2022	12/2024	PME current version

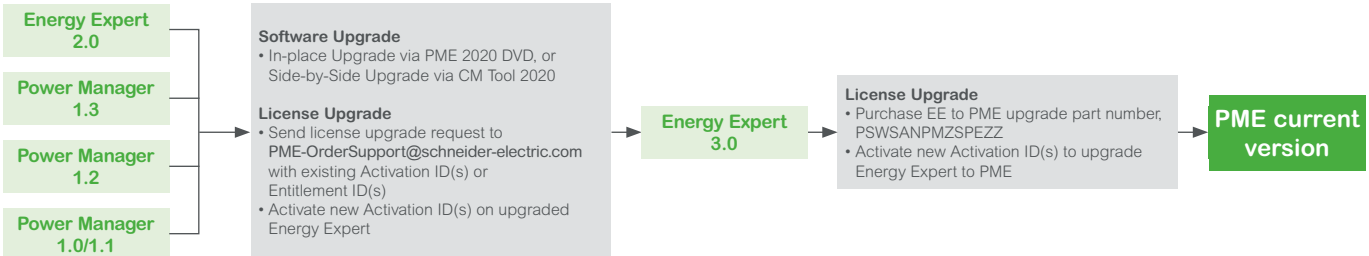
- **Upgradation process:**
  - Existing database (configuration file) can be extracted directly from the server and communicated to the Technical Support,
  - Upgrade tools existing. As the system is usually not redundant, shut down of the current version is recommended. Commissioning can be done by Local Field & Services team depending on training level.
- **Recommended Engineering:**
  - Upgradation must be done by Application Centers or Technical Support teams or EcoXpert.
  - Workload (engineering work) could be affected in case of customized reports
- **Limitation scope:** In case the Server is not replaced, the existing computer must support Windows® 10
- **New release advantages:**
  - Windows® 10 compatibility
  - Enhance performances and new features



Energy Expert software support matrix

Windows Operation Systems	Windows 10 Professionnal/Enterprise Windows Server 2012 Standard or 2012 R2 Standard/Enterprise Windows Server 2016, 2019 Standard
SQL Server Versions	SQL Server 2012 Express/Standard/Enterprise/Business Intel. SP2 SQL Server 2014, 2016, 2017 Express/Standard/Enterprise/Business Intel.
Browser	Firefox, Chrome, Safari, Opera
Office	Excel 2013, 2016 and 365

Possible upgrade paths: PME license upgrade is done by purchasing software assurance.
Please, refer to your technical support for more details



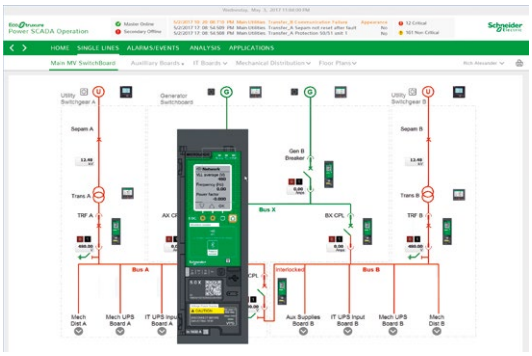
Digital Power solutions

PLS & PSO software versions with EcoStruxure Power Operation EPO 2024

Power SCADA Operation

Original brand: Schneider Electric, Square D

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time



Product Release	Release date	Lifecycle phase	End of Sales date	End of full support up to	Limited support up to	Modernization Solution version
PLS 7.20	08/2011	Obsolete	02/2013	12/2015	12/2015	EPO current version
PSE 7.30	02/2013	Obsolete	03/2014	12/2015	12/2020	EPO current version
PSE 7.40	03/2014	Obsolete	04/2015	12/2016	12/2020	EPO current version
PSE 8.0	04/2015	Obsolete	04/2016	12/2018	12/2020	EPO current version
PSE 8.1	04/2016	Obsolete	04/2017	12/2018	12/2021	EPO current version
PSE 8.2	04/2017	Obsolete	09/2018	12/2019	12/2022	EPO current version
PSO 9.0	09/2018	Obsolete	01/2020	12/2021	12/2023	EPO current version
PSO 2020	01/2020	Obsolete	08/2021	12/2022	12/2024	EPO current version
EPO 2021	08/2021	Limited Service	11/2022	12/2023	12/2025	EPO current version
EPO 2022	11/2022	Limited Service	11/2024	12/2024	12/2026	EPO current version
EPO 2024	07/2024	Commercialized				

- **Upgradation process:**
  - Existing database (configuration file) can be extracted directly from the server and communicated to the Technical Support.
  - Upgrade tools existing.
  - Commissioning can be done by Local Field & Services team depending on training level.
  - Redundant HMI is migrated first and refreshed, therefore, no Shutdown is required.

  Additional details around upgrades can be found on Extranet Exchange.
- **Recommended Engineering:**
  System upgrade should be done by Application Centers or Technical Support teams or EcoXperts.
- **Limitation scope:** In case the Server is not replaced, the existing computer must support following Operating Systems.
- **Application case with Advanced Monitoring views:**

Application case of PSO delivered with advanced monitoring (PME): same process but both software need to be upgraded.

- **New release advantages:**
  For complete details on reasons to upgrade, please contact us
- **Possible upgrade paths:** Please, refer to your technical support for more details at the following link :
  Upgrading to Power Operation 2024 (se.com).

Digital Power solutions

XM, XL, XML, XD, XLI, XTU with IMD and IFL

Insulation Monitoring - Vigilohm System
Original brand: Merlin Gerin, Schneider Electric

EcoFit™ Life Extension Advanced for Electrical Distribution, a true extended life time

XM, XL, XML, XD, XLI, XTU
Insulation meters solutions

IMD and IFL
IMD (Insulation Monitoring Device), associated to IFL (Insulation Fault Locator)



Commercial name		Part number	Lifecycle phase	End of sales date	End of services date (See note (2))	Replacement solution by another EoL device (See notes (1) & (2))	Modernization process	Replacement solution by a commercialized device	Modernization process
XD301	110V	50506	Obsolete	12/2018	10/2024	None	Not applicable	IMDIFL12	A type
	230V	50507							
	380V	50508							
XD308C	110V	50723	Obsolete	12/2018	12/2018	XL316	A type	IMDIFL12C	A type
	230V	50724			12/2024				
	380V	50725			12/2024				
XD312	110V	50535	Obsolete	12/2018	12/2018	None	Not applicable	IMDIFL12	A type
	230V	50536							
	380V	50537							
XD312-H		50536-H	Obsolete	12/2018	12/2018	None	Not applicable	IMDIFL12H	A type
XL308	110V	50606	Obsolete	12/2018	12/2018	XL316	C type	IMDIFL12MC	A type
	230V	50607							
	380V	50608							
XL316	110V	50615	Obsolete	12/2018	06/2024	XL316	C type	2x IMDIFL12MC	A type
	230V	50616 (3)	Service		12/2026				
	380V	50617	Obsolete		06/2024				
XM300C	110V	50540	Obsolete	12/2018	12/2024	XM300C	C type	IMD-IM400	A type
	230V	50541	Service		12/2026				
	380V	50542	Obsolete		12/2024				
XML308	110V	50490	Obsolete	12/2018	12/2018	XML316	C type	IMD-IM400 + IMDIFL12MC	A type
	230V	50491							
	380V	50492							
XML316	110V	50322	Obsolete	12/2018	06/2024	XML316	C type	IMD-IM400 + 2x IMDIFL12MC	A type
	230V	50323 (3)	Service		12/2026				
	380V	50324	Obsolete		11/2023				
XLI300	115V	50515 (3)	Obsolete	12/2018	06/2024	XLI300	C type	No replacement as 2 cases will exist: - if installation remains with XM, XML, XL, the XLI (resp. XTU) device must remain (to keep Fault locator & comm. in Operation) - if installation is already upgraded with IM400 & IFS, the XLI (resp. XTU) device becomes of no use	Not applicable
	230V	50516	Service		12/2026				
	380V	50517 (3)	Obsolete		06/2024				
XTU300	110V	50545 (3)	Obsolete	12/2018	12/2018	XTU300	C type		Not applicable
	230V	50546	Service		12/2026				
	380V	50547 (3)	Obsolete		12/2024				
XM200	220V	50727	Obsolete					IMD-IM400 ; no sub. for ref 50729 & 50730 (>380Vac)	
	240V	50728							

- **Upgradation process:**
  - Type A: Different form factor, need to be rewired, different register mapping
  - Type B: Same form factor, need to be rewired, different register mapping
  - Type C: Same form factor, need to be rewired, same register mapping.
- **Note 1:** For all EoL references, no repair is possible. A stock of devices has been constituted to replace on-field defective products. No extension nor new projects are possible with products from the EoL stock.
- **Note 2:** Schneider Electric has managed to have a security stock of manufactured products. Please, check with your local Field & Services representative or through SPEED application the real time available stock.
- **Note 3:** These Power Supply values may have limited spare parts available. Please, check with your Front office or select the 230V model, associated with an interface transformer.
- **Main technical characteristics:** Refer to new 2025 catalogue available.

Digital Power solutions

AREVA MRxxx Insulation meters with Vigilohm solution

Electronic Insulation Monitoring Relay
Original brand: AREVA, then Schneider Electric MRxxx System

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MR6xx range



IMD (Insulation Monitoring Device), associated to IFL (Insulation Fault Locator)



Commercial name	Part Number	Lifecycle Phase	End of Sales date	End of Services date	Replacement solution	Modernization process	Description of original device	Description of replacement device
MR 621 Monitoring unit	772-000-00-1 MR621	Obsolete	06/2021	12/2023	IMD-IM20	Retrofit		
MR 623 Monitoring unit	773-000-00-1 MR623	Obsolete	06/2021	12/2023	IMD-IM20	Retrofit		
MR 625 Monitoring unit	774-000-00-1 MR625	Obsolete	06/2021	12/2023	IMD-IM20	Retrofit		
MR 627A Microprocessor	775-000-10-010 MR627	Obsolete	06/2021	12/2023	IMD-IM400	Retrofit		
MR 627B Microprocessor	775-000-10-020 MR627	Obsolete	06/2021	12/2023	IMD-IM400	Retrofit		
MR 627C Microprocessor	775-000-20-010 MR627	Obsolete	06/2021	12/2023	IMD-IM400	Retrofit		
MR 627D Microprocessor	775-000-20-020 MR627	Obsolete	06/2021	12/2023	IMD-IM400	Retrofit		
MZ 611A Adapter	781-000-00-010 MZ611	Obsolete	06/2021	12/2023	Associated to IM20: IMD-IM20-1700 Associated to IM400: • Either IMD-IM400-1700C • Or PHT1000, ref 50248 for use with Ins Fault locator, IFL range	/		
MZ 611B Adapter	781-000-00-020 MZ611	Obsolete	06/2021	12/2023				
MI 611 Convertor		Obsolete	06/2021	12/2023	No replacement	/		

- **Upgradation process:** These substitution products may have 1 or more functionalities which differ from the MRxxx range, especially on the Communication Bus. Refer to the MR and Vigilohm catalogue for more information.
- **Note 1:**
  - For all EoL references, no repair is possible. The stock availability of legacy devices is subjected to verification prior any ordering process, and is not guaranteed. No extension nor new projects are possible with products from the EoL stock
  - Please, check with you local Field & Services representative or through SPEED application the real time available stock.

Main technical characteristics

	OLD	NEW
Compliance with standards	Refer to Publication: REF-catalogue-2012-GB (printed in Poland)	Refer to the current Vigilohm catalogue, available on SE.com
Security	Refer to Publication: REF-catalogue-2012-GB (printed in Poland)	
Modular architecture	Refer to Publication: REF-catalogue-2012-GB (printed in Poland)	
User Interface and communication facilities	Refer to Publication: REF-catalogue-2012-GB (printed in Poland)	
IoT connectivity	Refer to Publication: REF-catalogue-2012-GB (printed in Poland)	

Digital Power solutions

PowerTag Link, Smart Link SIB and Legacy Gateways with EcoStruxure Panel Server

Power and Power Quality Solutions
Original brand: Schneider Electric, Square D

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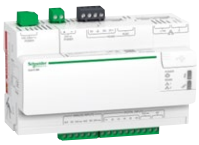
EGX Serie



Link 150



Com'X serie



PowerTag Link Serie



Smartlink SIB Serie



EnerlinX
EcoStruxure Panel Server



Product Release	Release Date	Lifecycle Phase	End of Sales date	End of Services date	Replacement solution	Modernization process
EGX100	2005	Obsolete	12/2016	12/2020 (Note 2)	PAS600 or 800	Type A: Different form factor, need to be rewired
EGX300	2009	Obsolete	12/2016	06/2020	PAS800	Type A: Different form factor, need to be rewired
Com'X 200		Obsolete	01/2017	01/2021 (Note 2)	PAS800	Type B: Same form factor, need to be rewired & set again + commissioning (See Note 1)
G3200 (RoW)		Obsolete	01/2021	12/2024	HU250, from PowerLogic T300 range	Type A: Different form factor, need to be rewired
G3200 (Europe)		Obsolete	06/2019	12/2024	HU250, from PowerLogic T300 range	Type A: Different form factor, need to be rewired
Smartlink SID		Obsolete	04/2020	04/2020	PowerTagLink Ref A9XMWD20	Type C: Same form factor, same wiring, but set again + commissioning
Acti9 Smartlink ELB		Obsolete	02/2020	03/2021	Power Tag Link C	Type A: Different form factor, need to be rewired
Acti9 Smartlink SIB	2014-2019	Services	09/2023	09/2025 (Note 2)	A9XMSB11 + PAS600L	Type A: Different form factor, need to be rewired
Link 150	2015	Service	12/2024	12/2026 (Note 2)	EcoStruxure Panel Server Universal PAS600	Type B: Same form factor, need to be rewired & set again + commissioning
Com'X 210	2013	Obsolete	07/2022	12/2024	EcoStruxure Panel Server Universal	Type A: Different form factor, need to be rewired
Com'X 510	2013	Obsolete	07/2022	12/2024	EcoStruxure Panel Server Advanced	Type A: Different form factor, need to be rewired
PowerTagLink	2019	Service	12/2024	12/2026 (Note 2)	EcoStruxure Panel Server PAS400 (Note 3)	Type B: Same form factor, need to be rewired & set again + commissioning
PowerTagLink HD	2019	Service	12/2024	12/2026 (Note 2)	EcoStruxure Panel Server PAS600 (Note 3)	Type A: Different form factor, need to be rewired
PowerTag Link C		Commercialized	06/2023	06/2025 (Note 2)	EcoStruxure Panel Server Entry	Type B: Same form factor, need to be rewired & set again + commissioning
GPRS Module - Ref EBXA-GPRS		Obsolete	/	/	Obsolete and no more available as spare part	COM'X accessory
WIFI Module - Ref EBXA-USB-WIFI		Obsolete	/	/	Obsolete and no more available as spare part	COM'X accessory
ZigBee Module - Ref EBXA-USB-ZigBee		Obsolete	12/2020	12/2022	Obsolete and no more available as spare part after 12/2022	COM'X accessory

- **Upgradation process:**
  - Type A: Different form factor, need to be rewired
  - Type B: Same form factor, need to be rewired & set again + commissioning
  - Type C: Same form factor, same wiring, but set again + commissioning.
- **Note 1:** Need to add 24 VDC power supply if netwrok is 230 VAC.
- **Note 2:** End of Services date is 2 years after end of sales date.
  Limited Support:
  - answering questions
  - when possible, providing workarounds and fixes that are available for known problems but no new hotfixes or cybersecurity hotfixes for new issues
  - Provide information on migration to a newer product release that has Full Support.

Notes

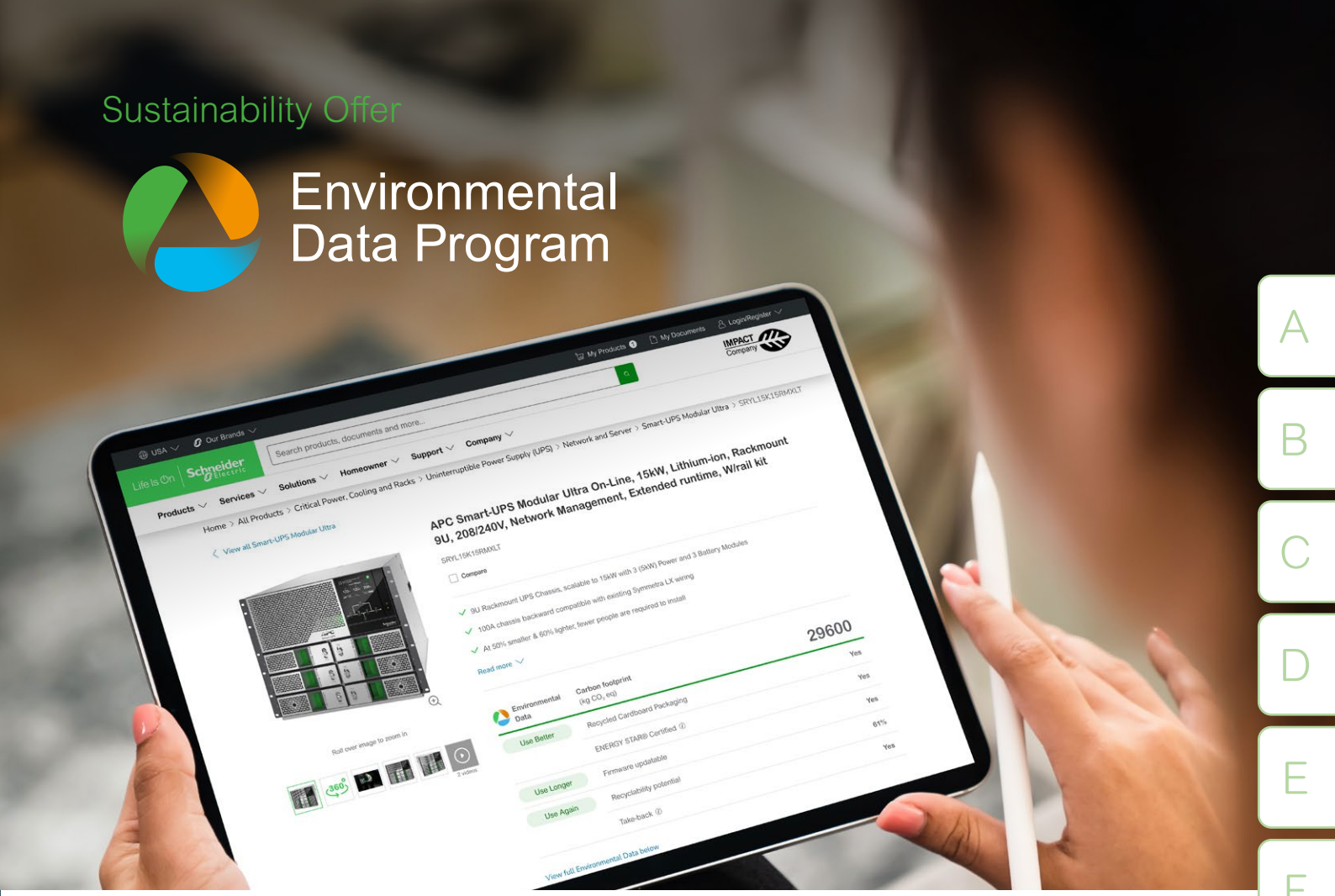
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Sustainability Offer

Environmental Data Program

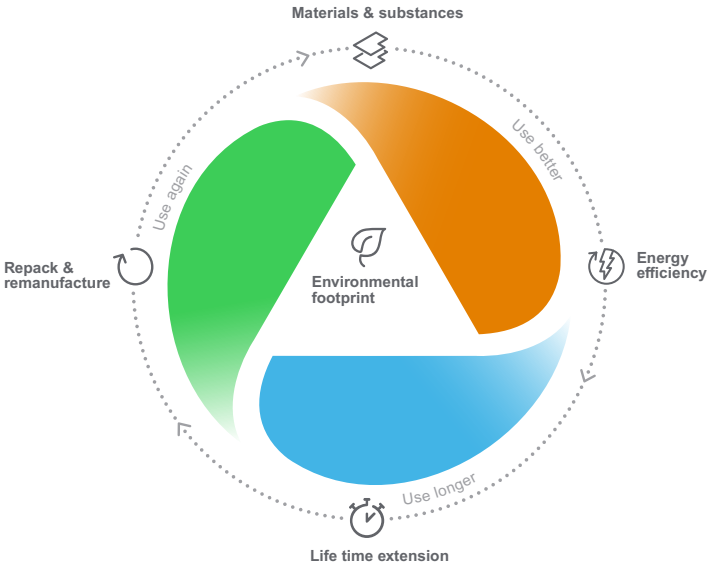


Next-level transparency for better-informed product choices

The Environmental Data Program is a framework for how we measure, categorize, and compare the environmental attributes and footprint of our products.

Using a rigorous, fact-based methodology, the program provides environmental data from across the product lifecycle.

Five data categories across the product lifecycle



Use Better: How sustainable a product is, including environmental footprint, materials and substances, packaging, and energy efficiency.

Use Longer: How a product's life time can be effectively extended in terms of repairability and updatability.

Use Again: How a product can be reused, from dismantling and remanufacturing to recyclability and manufacturer take back.

With this transparent, verified data, customers and partners are empowered to make conscious environmental choices and accurately evaluate and report on sustainability performance.

All our hardware offers have an associated environmental data available on se.com product pages.

EcoFit™ Recover Services and Take Back



Discover EcoFit Recover Services.

Modernization and circularity Services

Complementing EcoFit™ Life Extension Advanced, Take Back and Recover Services:

Reducing your environmental impact with our take back services.

We support the responsible management of your end-of-use or end of life products by facilitating their recovery and reintegration into the most efficient circular loops for all used products that are no longer under warranty.

Please find hereunder the specific case of medium voltage equipment with SF6

98%

of a medium voltage cubicle can be recycled

Get help

with SF6 gas disposal thanks to EcoFit™ Recover Service

Are you modernizing your electrical installation and looking to free up space in your warehouse by disposing of end-of-life equipment?

We support you in adopting a circular approach by providing a complete, secure, and environmentally responsible solution.

- Full traceability: We guarantee transparency and regulatory compliance
- Seamless digital experience: easily returns your end of use products in Returns platform
- Turnkey service: we handle collection and treatment, giving you complete peace of mind.
- Support for CO2 reduction: By using our service, you actively contribute to reducing CO_2 emissions linked to end-of-life equipment

Recycling of all medium voltage equipment, including SF6 gas.

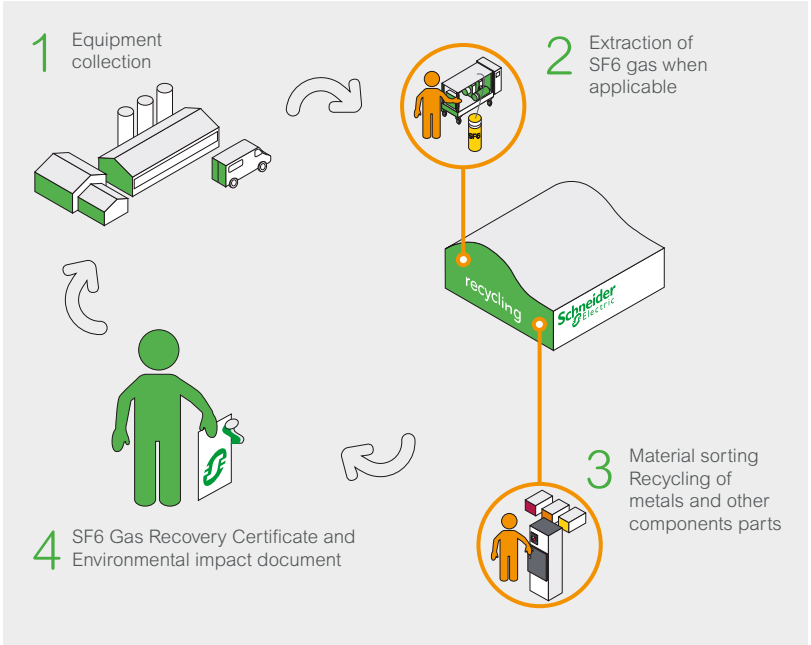
EcoFit™ Recover Service 4 steps

1 > Collection of medium voltage equipment from your site.

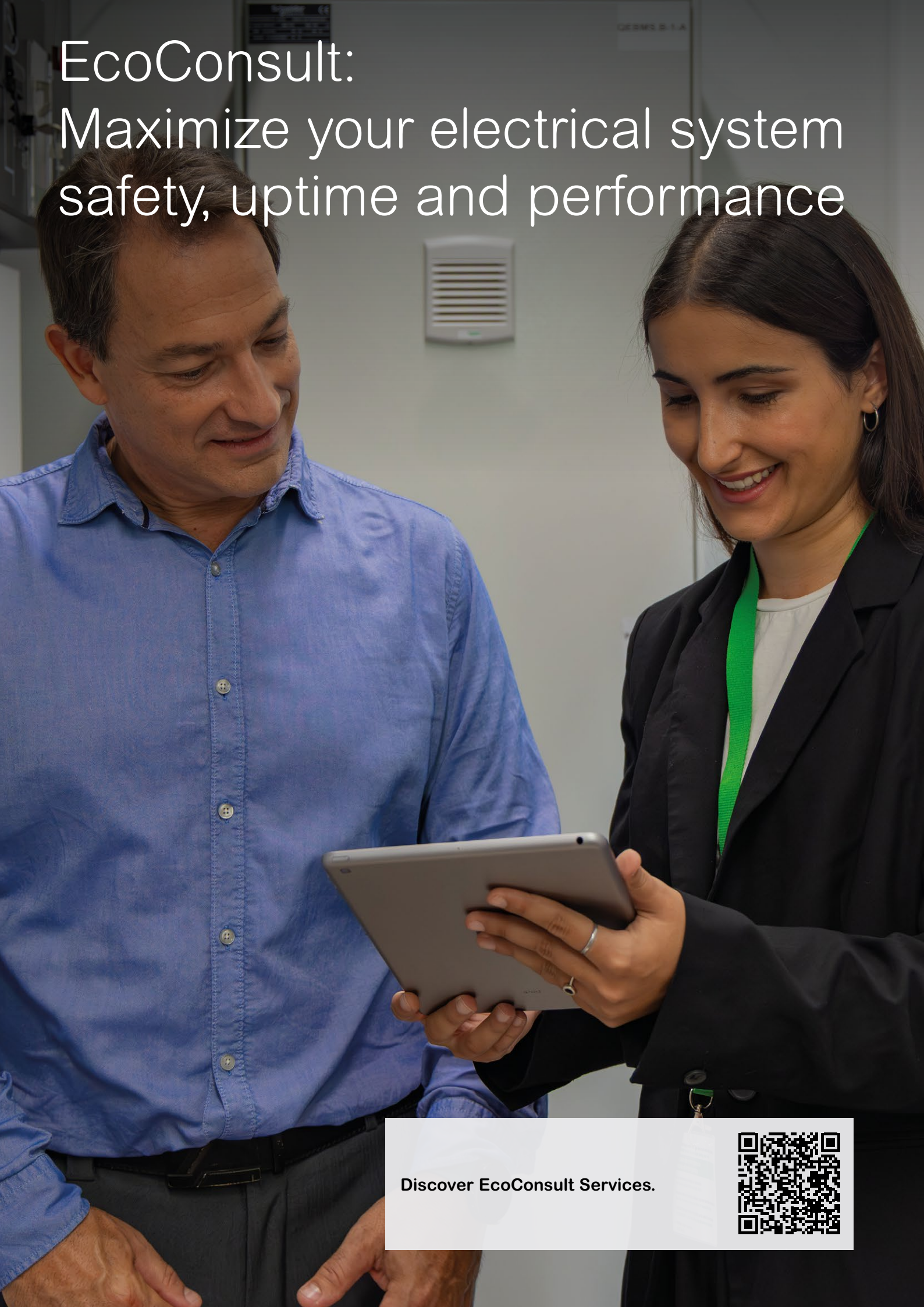
2 > Medium voltage equipment are sent to our SF6 partner in charge to extract the SF6 gas.
The SF6 gas is evacuated until the residual pressure is less than 20 mbar, in accordance with IEC 62271-4, using adequate engineered tools. The gas is stored in bottles before being sent for regeneration or destruction.

3 > The cells is sent to a specialized recycling company by recovering valuable materials and components (copper, alluminium ...) to increase raw material resilience.

4 > SF6 Gas Recovery Certificate is sent as proof, necessary for your environmental policies, and can contributes to your companies green image.



EcoConsult:
Maximize your electrical system safety, uptime and performance



Discover EcoConsult Services.

Associated Services
EcoConsult

SE ADVISORY SERVICES

Consulting services for design & build optimization enabled with AI

Our consultants deliver execution-ready consulting to solve complex energy, technology, and operational challenges.

Inspired by our own transformation journey, they combine agnostic advisory, AI-powered insights, and digital twin capabilities to help ensure seamless implementation.

They help customers to move from insight to impact - prioritizing modernization decisions with circularity on top of mind, accelerating digitization and performance to unlock long-term value for safe, resilient and sustainable operations.

+250
Consultants Experts in power systems and automation delivering audits & systems studies.

+50
Years of experience **in** IT **and** power system studies.

+15
Years electro intensive and sensitive sites benchmark from audit performed worldwide patented algorithm to detect single point of failure in customer electrical distribution.

6,000
In-house electrical experts and a large ecosystem of certified partners.

+150
Connected Services Hubs experts monitoring electrical assets 24/7.

+300
In-house Data Scientists in AI Hubs.

Your electrical and automation assets and systems are among the most important parts of your operations.

From assessing existing systems to new installation design, our trusted consultants will help you identify potential issues to reduce risks in the fields ot safety, reliability, efficiency and sustainability, while initiating digital transformation, and ensuring operational efficiency. **We provide actionable insights and critical business outcomes**.

EcoConsult Audit for Power:
Identify safety, resiliency risks and state-of-the-art mitigation actions

This consulting service helps you assess your power system. While identifying gaps and risks, our consultants will develop plans to help address system modernization, maintenance practices, digital transformation, and power system management. EcoConsult Audit for Power helps you ensure your business is operating in a safer, more efficient, and resilient way while initiating your digital transformation.

EcoConsult for Datacenter:
A comprehensive consultancy portfolio tailored to meet all your Data Center infrastructure lifecycle needs.

Shed light on your power distribution and IT / server room assets and systems to improve uptime and life expectancy while reducing total cost of ownership of your critical Data Centers infrastructure. Our Data Centers Consultants starts with an onsite walkthrough to gather findings and assess the condition of your power equipment and cooling system as it relates to both the IT/Server Space and Power System.

EcoConsult Audit for Power Quality:
Power Quality Audits helps keep Equipment Healthy with Stable Power Rising system complexity elevates the risk of penalties, disturbances, and failures. Our consultants perform power quality audits and assessments that deliver measurable gains in efficiency, uptime, asset longevity, and emissions reduction. “Empowering a confident, accelerated digital transformation”.

EcoConsult Audit for Power Monitoring:
Measure, Understand and Prioritize to reach expected Energy Savings

Opportunities to cut energy are everywhere, but only some pay back. To prioritise the winners, you need data, “Starting with metering”. Our solution shows where energy goes and what drives your bills, supports energy management and load monitoring, ensures power availability, and lets us design a customised metering and monitoring plan aligned to your specific requirements as part of the EcoConsult Audit for Power Monitoring.

EcoConsult Audit for Energy Efficiency:
Cut Energy Costs and reduce your carbon footprint seemlessly

Struggling with high energy costs and Emissions Targets? EcoConsult Audit for Energy Efficiency shows exactly where to act, ranks opportunities by payback and effort, and gives you a simple plan to deliver quick wins now and bigger results next without slowing your operations.

Associated Services
EcoConsult Services

Schneider Electric Consulting covers

4 Practices

Assets Performance Management:
Our consultants turn insights into impact, solving complex energy and operational challenges with execution-ready strategies helping ensure safety, reliability, and efficiency for your critical assets, systems, and processes.

Industrial Digital Transformation & Cybersecurity:
We deliver digital and process improvements while strengthening cybersecurity through smart implementation and monitoring.

Process Electrification:
We create a tangible action plan to reduce GHG emissions through electrification.

Energy & Sustainability:
We enable energy savings and greener energy sources.

EcoConsult Electrical Digital Twin:
Release the potential of Electrical Digital Twin for safer and more efficient operations.

Electrical Digital Twin service aims to digitize the single line diagram of your electrical distribution infrastructure.
Going beyond the traditional, static, paper/CAD-based electrical diagram, the digitized model includes information about the functionality of each device in the network and the whole-system behavior. It enables modeling, visualization, simulation, and validation of your electrical system's performance in terms of safety, reliability, and efficiency.
And bundling it with relevant power system studies, it gives you peace of mind while managing the model update with a multi-years' service agreement.

EcoConsult System Studies & Design:
Improve safety and power system resiliency while benefiting from our design consultants' best-in-class expertise.

Our EcoConsult System Studies portfolio provides comprehensive power system analyses, from designing and sizing your electrical architecture to defining protection coordination and implementing Arc Flash practices. Advanced studies such as power factor and harmonic analysis enhance energy efficiency and system resiliency, while tailored assessments like load flow, motor starting, and electrodynamic stability address specific operational challenges. Complementing these studies, our design consultants offer best-in-class expertise to define new architectures and develop modernization plans that improve safety and align with your business needs.

mySchneider, collaborative platform:
One destination. One journey. Customized content for you.

We've put everything you need in one place.
In just a few clicks, you can easily access all the content and resources you need to get the job done.
Our Consultant's recommendations are provided through mySchneider, for easy prioritization, follow up, design and implementation.



EcoConsult - Actionable Insights

For your Assets & Systems

We provide **actionable insights and deliver on critical business outcomes** ranging from:

Safety & Compliance
for your people and resources. Up to 90%(1) Safety Risk Mitigation

Resiliency
to keep business uptime and at scale

Efficiency
OpEx on electrical and automation assets management.
Up to 30%(1) Energy Efficiency Improvement.

Decarbonization
up to 50%(1) CO_2 Emission Reduction for energy wastage, optimize energy consumption and digitize energy usage and monitoring

(1) Based on results from our customers energy audits and safety assessments.

Empower your team with training and extended reality



Discover our full training offer.

Associated Services
Workforce Empowerment

90% of unexpected events in a network, such as power outages, accidents and near misses, are caused by human error!

61+
training locations worldwide

350+
expert trainers in technical & educational fields

1 400+
equipment and process specific courses to choose from

44 000+
active e-Learners

Empower your workforce with the right skills and the right information, to make them perform their job safer and faster to:

- Enable your team members to make the right decision in their daily operations and in case of unexpected events
- Protect your people
- Mitigate risks of accident
- Avoid downtime and damages
- Enhance on-site technical skills and safety level
- Save time and costs
- Manage Capex

Thanks to:

EcoStruxure™ XR Operator Advisor Service Plan: duplicate your electrical installation in augmented, extended and virtual reality to give operators the right information needed on the field and be guided step-by-step during operation through their tablet or smartphone. Provide them access remotely to a digital model of the electrical installation from anywhere, allowing **easy on-boarding & operational training, remote visualization and access to experts as well as secured conditions for operating.**

Teaser **eBrochure** **"How to" Video**

e-Learning offer: optimize your teams technical skills and safety installation performance with our e-Learning programs.

Customized training courses: propose to your team some dedicated training paths and technical certification, co-built with you.

Certified trainers: benefit from technical specialists as well as experienced educators; hands-on training with full size equipment, in our worldwide training centers.



Modernized equipment + Updated skills = Operational excellence

EcoXperts Power Services



Discover EcoFit™: Modernization and circularity services.

Associated Services

We have a wide network of certified Partners close to our end-users

With our certified Partners, we always better serve our end-users needs and expectations.

As **Trusted Partners**, they are trained by Schneider Electric Subject Matter Experts to provide best-in-class level of expertise all over the world.
They are **trained and qualified** to use and promote our tools and procedures to perform optimized intervention minimizing time on-site and impact on the business.

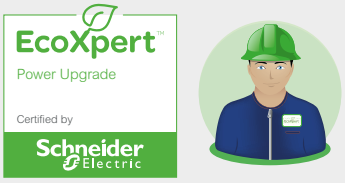
Our **EcoXperts** make smart recommendations, offering solutions to support business continuity and help enhance the installation's lifetime.
They modernize End Users installed base with connected assets and services, performed by Schneider Electric or certified EcoXperts.
As sought-after experts in their field, they transforms data from your electrical distribution into actionable insights and give you recommendation through cloud-enabled expertise and predictive analytics.

As recognized and trusted Partner by Schneider Electric in front of an Enduser, they will be able to make recommendations, propose or perform Services to keep the Customer's installation running at the desired level of operation.



As Schneider Electric Authorized Services Reseller, you are trained and qualified to buy & resell services

- Sell maintenance, contract, spare parts, modernization and digital services.
- Remain the first interlocutor to your customer, while services offers are executed by Schneider Electric's experts.



In addition to buy & resell services as EcoXpert power Upgrade & EcoXpert Power Services you can perform Services from essential to advanced level

- Differentiate from competitors with relevant services offers
- Boost employee expertise with dedicated training
- Become the solution provider and trusted advisor for your customer needs.



Legacy range/brand by Schneider Electric



Discover our Services.

Legacy range brand

Obsolete legacy ranges..... M2
EcoFit™ reference centers M4

Legacy range brand

Obsolete legacy ranges without any...

Brand	Range	Description
ASCO	SERIES 434 Power Transfer Switch	LV Automatic Transfer Switches stopped production in 2001
ASCO	SERIES 436 Power Transfer Switch	LV Automatic Transfer Switches stopped production in 2001
ASCO	SERIES 447Power Transfer Switch	LV Automatic Transfer Switches stopped production in 1997
ASCO	SERIES 448 Power Transfer Switch	LV Automatic Transfer Switches stopped production in 1997
ASCO	SERIES 486 Power Transfer Switch	LV Automatic Transfer Switches stopped production in 1997
ASCO	SERIES 906 Power Transfer Switch	LV Automatic Transfer Switches stopped production in 1997
Delle Alsthom-GEC-Alsthom, Alstom	20CB	MV Outdoor Disconnector & Switch (1988-1998)
Merlin Gerin	36BX	MV Switchboard AIS (1979-1988)
Sachsenwerk, AEG	A, D, F, G	MV Oil Circuit Breaker (19xx-1990)
AEG	AHB	MV Switchboard AIS (1997-1998)
CEM	AMB	MV Switchboard AIS (1958-1965)
AEG, Alstom, AREVA, GEC-Alsthom	AS Series	MV Switchboard AIS (19xx-1990)
CEM	AV	MV Air Circuit breaker (1950-1960)
Merlin Gerin	Biovar	MV Capacitor (1978-1985)
Merlin Gerin	BMI	MV Indoor Disconnector & Switch (19xx - 19xx)
Delle Alsthom, GEC-Alsthom	BS	MV SF6 Circuit Breaker (19xx-1993)
VEB, Otto Buchwitz	BSIG – 10,BSIG-20	MV Switchboard AIS
Sachsenwerk, AEG	BT (CS0)	MV Oil Circuit Breaker (1965-1980)
AEI, GEC, GEC-Alsthom, Alstom	BVP22	MV Vacuum Circuit Breakers (1965 - 1984)
GEC-Alsthom	BVX	MV Vacuum Circuit Breakers (1970 - 1984)
Merlin Gerin	Chamrousse	MV Switchboard AIS (1968-1974)
CEM	CHT	MV Air Contactor (1960-1976)
Merlin Gerin	CI, DC, DCR	LV Circuit Breaker (1950-1966)
Merlin Gerin	CM14	LV panel (1972-1988)
Merlin Gerin	Compact CM	LV Molded Case Circuit Breaker (1981-2002)
Nuova Magrini Galileo	COMPOSIT	MV Switchboard AIS (1966 - 1993)
Merlin Gerin	COQ	MV Switchboard AIS (1954-1968)
OBSAD -SAD	CSI	MV Oil Circuit Breaker
VEB, Otto Buchwitz	CSIM 1-12, CSIM 3-12, CSIM 3-24	MV Switchboard AIS
Delle Alsthom, Alstom	CX	MV SF6 Circuit Breaker (1976-1982)
AEG, Alstom	D-12, D-24	MV Switchboard AIS
Alstom, AREVA	DAX-I	MV Switchgears Protection (2000-2015)
Merlin Gerin	DB 33 Marine	LV Circuit Breaker (1993-1998)
Magrini	DH, DHE, DHF, DHM	MV Air Circuit breaker (19xx-1969, 1969,1997,1969)
Merlin Gerin	Dialpact	LV Circuit Breaker (1993-1999)
Delle Alsthom, Alstom	DIMAX	MV Switchgears Protection (1975-1999)
Magrini	DISTRIVAN B, C	MV Switchboard AIS
Merlin Gerin	DMC/DMP/DRC/DMG/DRP	LV Circuit Breakers (1950 - 1966)
CEM	DNG6	MV Switchboard AIS (1969-1980)
Merlin Gerin	DSExxK, DSExx / SOLENARC	MV Air circuit breaker (1971-1988, 1972-1988)
Merlin Gerin	DSG	LV Circuit Breaker (1950-1966)
Merlin Gerin	DSL	LV Circuit Breaker (1983-1998)
Delle Alsthom, Alstom	EPAC	MV Switchgears Protection (1990-2003)
Merlin Gerin	Equipunit	LV Capacitors (19xx-1980)
Magrini	F (CS4)	MV Switchboard AIS (1970-1980)
new CEM, Delle Alsthom, GEC-Alsthom, Alstom	FB3	MV SF6 Circuit Breaker (1982 - 1994)
CEM, Delle Alsthom, GEC-Alsthom, Alstom	FBA	MV Switchboard GIS (1987-2003)
GEC-Alsthom-Alstom	FBE, FBT	MV Switchboard GIS (1991-2003)
Square D	FC	MV SF6 Circuit Breaker (1975-1988)
CEM, Delle Alsthom, GEC-Alsthom	FI	MV Oil Circuit Breaker (1984-1990)
CEM	FJ	MV Oil Circuit Breaker (1953-1973)
Merlin Gerin	Fluair F24F	MV Switchboard AIS (1972-1985)
Merlin Gerin	FLUARC FA/FB	MV SF6 Circuit Breaker (1972-1982)
CEM, Delle Alsthom, GEC-Alsthom, Alstom	FLUOKIT C24	MV Switchboard GIS (1987-2002)
GEC	Fluokit M36	MV Switchboard AIS (1987-2014)
CEM	FLUOMATIC F500, F900, NF500	MV Switchboard AIS (-, 1978-1987,1975-1987)
Delle Alsthom	Fluomatic F943	MV Switchboard AIS
Alstom, AREVA	FLUOPACK	MV Switchboard GIS (1998-2006)
Merlin Gerin	Fluostart 325	MV Switchboard AIS (1980-1985)
CEM	FR	MV SF6 Circuit Breaker (1970-1985)
CEM	FRAD	MV SF6 Circuit Breaker (1961-1980)
CEM	FRUR620, 640	MV SF6 Circuit Breaker (1972-1985)
Magrini	FS	MV Air Circuit breaker (1969-1997)
Merlin Gerin	FU, FUC, FUCO	MV Indoor Disconnector & Switch (1980-1985)
ALSTOM,AREVA	GEMSTART2/3, GEMSTART4.2	MV Switchgears Protection (1995-2003)
CEM, Delle Alsthom	GF, GF2	MV SF6 Contactor (1980-1988,1962-1970)
Magrini, VEI	GIE generation1, GIE generation2	MV SF6 Circuit Breaker (1987-1991,1992-1995)
Alstom	GMB	MV Switchboard AIS (2003-2005)
AEG, Alstom	H (GERMANY)	MV Switchboard AIS (1970-1980)
Delta	H96	MV Switchboard AIS (19xx-1998)
Merlin Gerin	HCV 5HS	MV Vacuum Contactors (2004->>>>)
CEM	HF	MV SF6 Circuit Breaker (1980-1984)
GEC	HMC 400	MV Switchboard AIS (1960-1970)
GEC	HMC 410	MV Switchboard AIS (1960-1970)
Concordia Sprecher, Sprecher & Schuh Alstom	HV, HVEW, HVW, HVTW	MV Vacuum Circuit Breaker (1993-2001)
Delle Alsthom, Alstom	HV400	MV Vacuum Circuit Breaker (1993-2001)
Merlin Gerin	I Line/ I Line II	LV panel (1984-2000)
Merlin Gerin	IN250, IN400, IN630	LV Circuit Breaker (1985-2001)
Merlin Gerin	Interpact	LV Circuit Breaker (1981-1999)
Merlin Gerin	Intersec	MV Indoor Disconnector & Switch (1966-1980)
VEI, AREVA	ISARC (Old version)	MV indoor switch disconnector (19xx-2006)
Merlin Gerin	ISOLARC	MV Indoor Disconnector & Switch (1985-1998)
Long & Crawford, GEC-Alsthom	J, J2, J3, J4	MV Vacuum Circuit Breaker (1958-2003)
Merlin Gerin	KA/KD	MV Air Contactor (1958-1972)
Merlin Gerin Canalis	KB, KJ, KLA, KM, KR, KU,	LV panel (1975-1998,1966-1997,1982-1995,1962-1983,1971-1984,1964-1984, 1971-1981)
CEM	KIT 23, 25, 26, 27, 28, 36	MV Switchboard AIS (1965-1969,1969-1978,1981-1987,1981-1987,1981-1984, 1981-1987)
AEG, Alstom, AREVA, GEC-Alsthom	L	MV Switchboard AIS (19xx-1993)
Merlin Gerin	Lamisec	MV Indoor Disconnector & Switch (1960-1980)

Legacy range brand

spare parts nor EcoFit™ Life Extension Advanced solutions

Brand	Range	Description
CEM	MAGNETOR	MV Air Circuit breaker (1950-1965)
Merlin Gerin	MCC MODEL 2, 3, 4, 5	LV panel (1950-1960,1960-1970,1970-1980,1980-1995)
Merlin Gerin	Mecabloc	LV panel (1959-1974)
Delle Alsthom	MESURISOL MC4, MESURISOL PL2	MV Switchgears Protection (1975-1999)
Alstom, AREVA	MIDOS MOPN01, MOPN02, MWTU14	MV Switchgears Protection (1989-2002)
Alstom, AREVA	MIDOS MRSU05	MV Switchgears Protection (1989-2004)
Merlin Gerin	Motorstart P12/30, P12D/P30D	MV Switchboard AIS (1960-1980)
Magrini	Multiclad	LV panel (19xx-1975)
Square D	MULTIFOR	LV Circuit breaker (till 1981)
Merlin Gerin	MULTITROL 10C, 14C	LV Circuit Breakers (19xx - 1975)
Merlin Gerin	Murbloc	LV panel (1962-1974)
GEC	MX36	MV Vacuum Circuit Breaker(1974-1981)
CEM	NDB7	MV Switchboard AIS (1964-1980)
CEM	NDS1/NDS2	MV Switchboard AIS (1964-1980)
CEM	NORMABLOC DN, DNL, DNT	MV Switchboard AIS (1964-1972,1969-1980,1964-1972)
CEM	NORMABLOC DNV4, 5, 5/2B	MV Switchboard AIS (1986-19xx,1992-19xx, 1987-19xx)
CEM	NORMABLOC N10, N100, N1100,N160, N300, N964	MV Switchboard AIS (1950-1958,1958-1971, 1969-1973, 1958-1971)
CEM	NORMABLOC NC3T	MV Switchboard AIS (1964-1972)
CEM	NORMABLOC ND	MV Switchboard AIS (1957-1965)
CEM	NORMADIS SERIE C, D	MV Switchboard AIS (1970-1973,1969-1973)
CEM	NORMADIS SERIE N 500	MV Switchboard AIS (1967-1970)
CEM	NORMAFLUOR DNF23, 24, 35, 370, 430,500	MV Switchboard AIS(1971-1972,1972-1981,1977-1982,1965-1968,1968-1971, 1977-1985)
CEM	NORMASEPT N700,N1700	MV Switchboard AIS (-,1970-1978)
Delle	Normasept N740 HL	MV Switchboard AIS (1971-1991)
Delle	Normasept N1742 RA	MV Switchboard AIS (1970-1978)
Delle Alsthom, GEC-Alsthom, AREVA	Normasept N743	MV Switchboard AIS (19xx-1981)
Merlin Gerin	OB1	MV Oil Circuit Breaker (19xx-1990)
ALSTOM	OPN6000/7000, OPN9000	MV Switchgears Protection (1989-2002,1992-2003)
new CEM, Delle Alsthom, GEC-Alsthom, Alstom, Areva, Schneider Electric	Orthofluor FP731	MV SF6 Circuit Breaker (1985 - 2013)
Merlin Gerin	P400	LV Capacitors (19xx-2006)
Merlin Gerin	P6, P12	LV panel (1974-1995, 1972-1982)
Concordia Sprecher, Alstom	PG-100	MV Switchboard GIS (19xx-2001)
new Any legacy	POWER BREAKERS	MV Switchboard AIS (1950 - 1994)
Merlin Gerin	POWER ZONE 2	LV panel (1960-1985,1985-2001)
Merlin Gerin	POWERPACT N/P_Frame	LV Molded Case Circuit Breaker (1980-2008)
Square D	POWERSTYLE QED3, QED4	LV panel (1985-2004)
Square D	POWERSTYLE QED3, QED4	LV panel (1985-2004)
Merlin Gerin	Pragma C, D,F	LV panel (19xx-2002,-2003,-2003)
Merlin Gerin	Prebloc	LV panel (1949-1974)
Merlin Gerin	Propivar generation1, Propivar generation2	MV Capacitors (1985-1997,1997-2001)
Alstom, AREVA	PSEL, PSET	MV Switchgears Protection (1985-2006)
Merlin Gerin	RCV-420	MV Swithgears Protection (1993-2007)
Merlin Gerin	Reactivar	MV/LV Capacitors (1993-2017)
Merlin Gerin	Rectibloc	LV Capacitors (19xx-2006)
Merlin Gerin	Ringmaster RN1.5, RN2.0	MV Switchboard GIS (1986-1991,1991-1999)
Merlin Gerin	RM6	MV Switchboard GIS (1983-1988)
Merlin Gerin	RNS11	MV Switchgears Protection (1995-2007)
Merlin Gerin	ROLLARC R100/R200	MV SF6 Contactors (1974-1984)
Merlin Gerin	Rotabloc_MDA	LV panel
Square D	SE	LV Circuit breaker (1983-2003)
Merlin Gerin	Secovar, Secomat	LV Capacitors (19xx-1988,19xx-1999)
Merlin Gerin	Sepam 15, Sepam 1000,Sepam 100LA, Sepam 100LD/100RT	MV Switchgears Protection (1985-1997,1993-2001,1995-2016,1995-2018)
CEM	SERIE 2F	MV Switchboard AIS (1982-1984)
CEM	SFC	MV SF6 Contactors(1976-1987)
Merlin Gerin	ST (COMPACT C)	LV Switchgear Protection (19xx-19xx)
Merlin Gerin	STR (COMPACT NS)	LV Switchgear Protection (1993 - 2011)
Merlin Gerin	STR (MASTERPACT M)	LV Switchgear Protection (1986 - 2003)
Merlin Gerin	T12	LV panel (1972-1980)
Merlin Gerin	Taillefer 900/1080	MV Switchboard AIS (1965-1974)
Merlin Gerin	TD8, TD9	LV panel (1969-1979,1980-1994)
Merlin Gerin	TDI, TMD, TMI	LV panel (1975-1995)
Merlin Gerin	TDS	LV panel (1980-1995)
Merlin Gerin	Temeg	MV Switchboard AIS (1965-1974)
Merlin Gerin, Schneider Electric	TeSys GV7	LV Molded Case Circuit Breakers (19xx - 19xx)
Merlin Gerin	TLC11MS	MV Switchgears Protection
Merlin Gerin	TM, TD, TM7	LV panel (1967-1995,-1995,-1994)
Télémécanique, Merlin Gerin	TMG	LV panel (1963-1966)
Alstom, AREVA	TROPIC	MV Switchgears Protection (1975-1999)
Merlin Gerin	V23/V60, V500/V700	MV Switchboard AIS (1960-1974,1966-1980)
VAMP	V57	MV Switchgears Protection (20xx-2019)
Merlin Gerin	Varset Direct	LV Capacitors (19xx-2013)
Delle Alsthom	VB, VC, VD	MV VacuumContactors(199x-2001)
CEM	VC TOYO	MV VacuumContactors(1974-1981)
new Huatech	VEP	MV Vacuum Circuit Breakers (19xx - 199x>)
Merlin Gerin	VIGIRACK, VIGIRACK_Nuclear	MV Swithgears Protection (1960-1996,1990-2015)
Merlin Gerin	VIP 11, 11R/12R, 13/17, 200-201	MV Switchgears Protection
Merlin Gerin	Visibloc	LV panel (1968-1974)
Merlin Gerin	Visucompact CM	LV Molded Case Circuit Breaker(1981-2002)
Merlin Gerin	VM6	MV Switchboard AIS (1975-1993)
AEG	WAK	MV Switchboard AIS

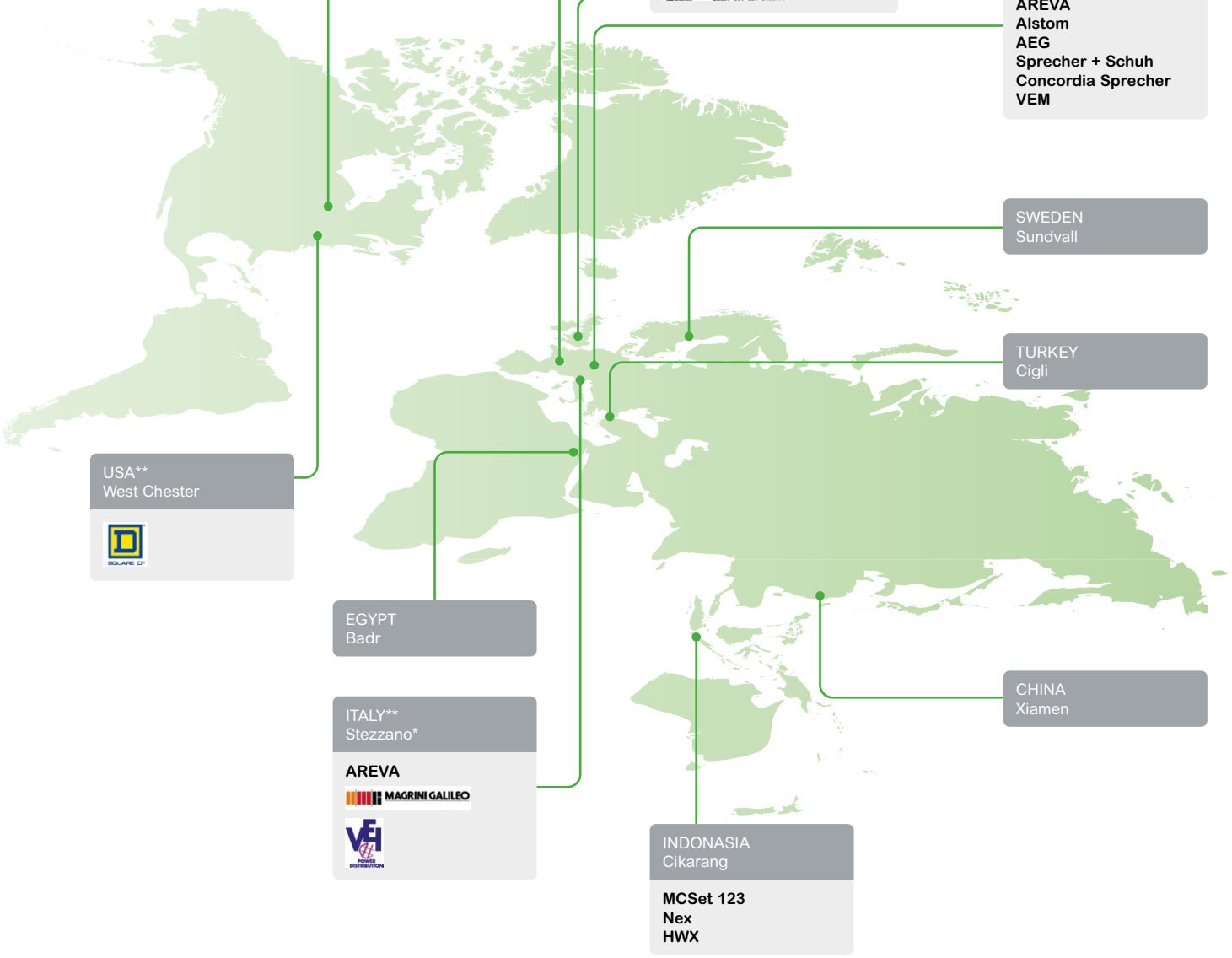
Please **contact** your local Services sales department to know more on modernization solution for those obsolete ranges

EcoFit™ centers



Discover EcoFit™: Modernization and circularity services.

Legacy range brand



* Not current EcoFit™ reference centre
** Competitors: ABB, Ansaldo, General Electric, Otto Buchwitz, VEB, Westinghouse, Siemens...

EcoFit™ Centers are in charge of:

- Design and development of EcoFit™ Life Extension Advanced offers using Schneider Offer Creation Process methodology.
- Industrialise, manufacture and optimise EcoFit™ Life Extension Advanced solutions to address customers' requests with optimum conditions.
- Testing, validation and certification of EcoFit™ Life Extension Advanced solutions using a standard quality directive procedure linked to international standards.

Schneider Electric Industries SAS

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