



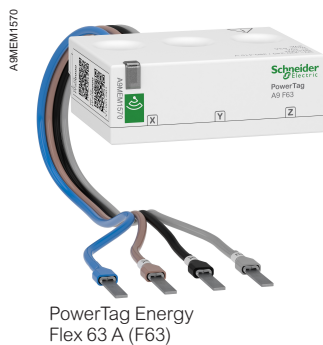
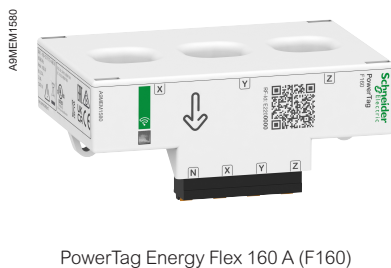
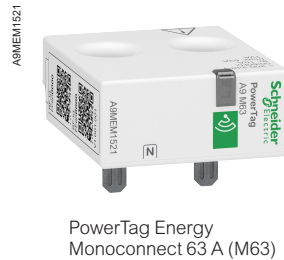
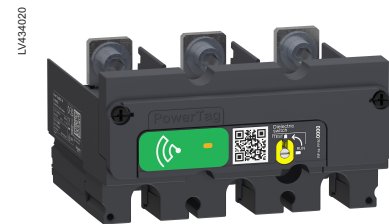
PowerLogic™ PowerTag Energy Series

PowerTag Energy is a wireless-communication energy sensor.

PowerTag Energy is designed specifically for Energy Management, Load Monitoring and Power Availability applications. Associated to a concentrator or a gateway, PowerTag Energy provides a full wireless class 1 solution, as per IEC 61557-12, to monitor energy at any level of a distribution panel.

Applications:

- Monitors your electrical installation from main incomer down to load level
- Suitable for various businesses, buildings, industrial and residential applications with easy integration in upper systems
- Supports and enables Energy Efficiency programs and standards such as:
 - European Energy Efficiency Directive (EED)
 - Energy Performance of Buildings Directive (EPBD)
 - IEC 60364-8-1 "Low Voltage Electrical installations - Energy Efficiency"
 - EN 17267 "Energy Measurement and Monitoring plan"
 - ISO 50001 "Energy Management System"



PowerTag Energy

The solution for

Markets that benefit from a solution that includes PowerLogic™ PowerTag Energy series:

- Residential
- Small business
- Medium & large buildings
- Industrial sites

Benefits

PowerTag Energy sensor incorporates all features required to perform accurate real-time measurements (U, V, I, P, PF) and energy values up to 2000 A.

Different designs of PowerTag Energy are available to ensure it fits the protective device on which it is mounted.

- PowerTag Energy Monoconnect (M): can be mounted directly on the device, no additional wiring is required
- PowerTag Energy PhaseNeutral (P): for DIN offers with 9 mm pitch between phase and neutral
- PowerTag Energy Flex (F): can be mounted on a wide range of protective devices thanks to its design
- PowerTag Energy Rope (R) thanks to its openable current sensors can be easily installed on busbars or wires in new installations and in retrofit applications

PowerTag Energy sensor is acting as an autonomous meter. Energy counters are stored inside PowerTag Energy sensor.

Energy management system

To get the most effective use from your Schneider Electric measurement and metering devices, we offer a range of dedicated gateways / concentrators depending on your application.

Advantages

- Wireless-communication
- Range up to 2000 A
- Voltage loss alarming
- Class 1 accuracy
- Compact design
- Easy installation and commissioning
- Scalable solution
- Perfect for retrofit or new panels

Conformity of standards

- IEC 61557-12
- IEC 61010-1
- IEC 61010-2-030
- IEC 61326-1 (Industrial Environment)
- IEC 62311
- ETSI EN 300 328
- ETSI EN 301 487-1
- ETSI EN 301 489-17 (Radiated EMC)



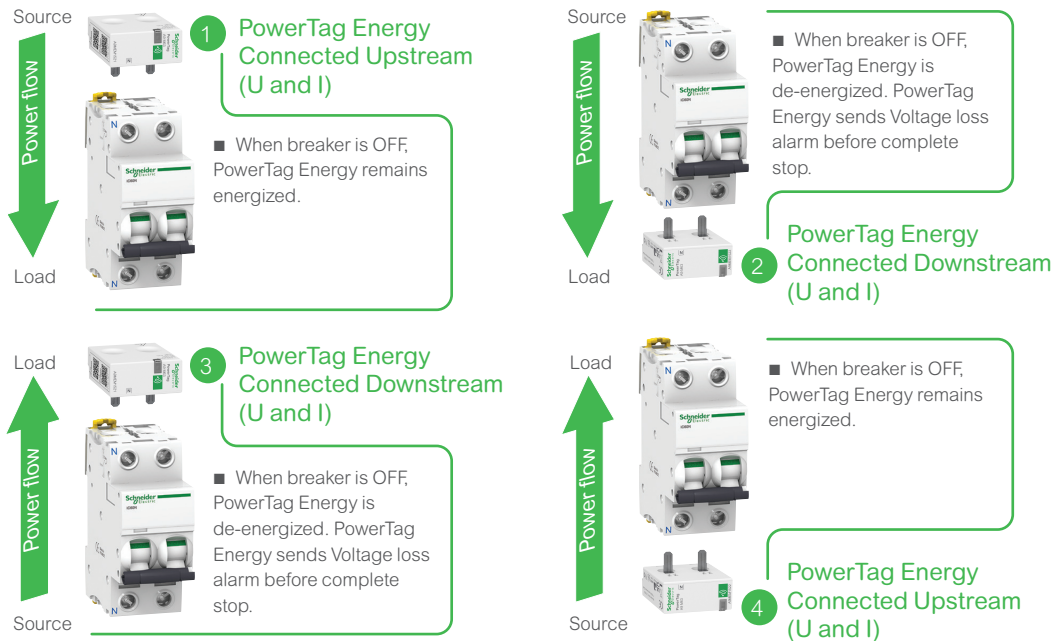
Feature selection

	A9MEM15••	A9MEM15••	A9MEM15••	A9MEM1580	LV434020/LV434021
Product name	M63	P63	F63	F160	M250
Max current (I Max) A	63	63	63	160	250
Basic current (Ib) A	10	10	10	25	40
Starting current (Ist)	40 mA	40 mA	40 mA	100 mA	160 mA
Design	Monoconnect	PhaseNeutral	Flex	Flex	Monoconnect
Mounting type	On device	On device	On wires	On wires	On device
Current sensors type	Solid core	Solid core	Solid core	Solid core	Solid core
Poles	1P + W / 1P+N / 3P / 3P+N	1P+N / 3P+N	1P+N / 3P / 3P+N	3P / 3P+N	3P / 3P+N
Self-powered	■	■	■	■	■
Voltage (L-N)	Depends on ref	200 - 240 V AC	Depends on ref	100 - 277 V AC	230 V AC
Measurements*					
Nb quadrant	2	2	2	4	4
Active Energy	Class 1	Class 1	Class 1	Class 1	Class 1
Reactive Energy				■	■
Apparent Energy				■	
Active Power	■	■	■	■	■
Reactive Power				■	■
Apparent Power	■	■	■	■	■
Power Factor	■	■	■	■	■
Frequency				■	■
Current and Voltage	■	■	■	■	■
* Data availability depending on the concentrator / gateway					

	LV434022/LV434023	A9MEM1590	A9MEM1591	A9MEM1592	A9MEM1593
Product name	M630	R200	R600	R1000	R2000
Max current (I Max) A	630	200	600	1000	2000
Basic current (Ib) A	100	30	100	150	300
Starting current (Ist)	400 mA	120 mA	400 mA	600 mA	1.2 A
Design	Monoconnect	Rope	Rope	Rope	Rope
Mounting type	On device	On wires	On wires	On wires	On wires
Current sensors type	Solid core	Split core	Split core	Split core	Split core
Poles	3P / 3P+N	3P / 3P+N	3P / 3P+N	3P / 3P+N	3P / 3P+N
Self-powered	■	■	■	■	■
Voltage (L-N)	230 V AC	100 - 277 V AC	100 - 277 V AC	100 - 277 V AC	100 - 277 V AC
Measurements*					
Nb quadrant	4	4	4	4	4
Active Energy	Class 1	Class 1	Class 1	Class 1	Class 1
Reactive Energy	■	■	■	■	■
Apparent Energy		■	■	■	■
Active Power	■	■	■	■	■
Reactive Power	■	■	■	■	■
Apparent Power	■	■	■	■	■
Power Factor	■	■	■	■	■
Frequency	■	■	■	■	■
Current and Voltage	■	■	■	■	■
* Data availability depending on the concentrator / gateway					



Connection possibilities



Note:

- In association with a contactor, a Variable Speed Drive or a motor starter: PowerTag Energy can ONLY be installed UPSTREAM these devices.
- Some PowerTag Energy can be installed either on the TOP or on the BOTTOM of the protective devices.
- Check the possible mounting position as indicated in the "Catalog numbers" chapter.

Connection (Voltage and Current)		Features
Upstream	1 4	<ul style="list-style-type: none"> • Energy management: consumption in kWh • Load monitoring: real-time measurements
Downstream Preferred installation to take full benefit of voltage loss alarming in diagnosing the load	2 3	<ul style="list-style-type: none"> • Energy management: consumption in kWh • Load monitoring: real-time measurements • Power availability: voltage loss alarming

Main associated concentrators / gateways (*)



For Commercial & Building applications			For LV Substation monitoring
EcoStruxure™ Panel Server		SpaceLogic	PowerLogic HU250
PAS400, PAS600, PAS600L with Cloud and SCADA		Automation Server V3 Premium	EMS59000 + EMS59156 + EMS59155 (4G optional)
For Small Business applications		For Residential applications	For Industrial applications
EcoStruxure™ Panel Server		Wiser Home Hub Wiser Hub	Harmony Hub
PAS400, PAS600, PAS600L with Cloud	PAS800, PAS800L standalone	CCT501801 CCT501901	ZBRN1, ZBRN2, ZBRN32
			PAS600, PAS600L

(*) Refer to Selection Guide for complete compatibility (CA908058)

PowerLogic™ PowerTag Energy 63 A

IEC 61557-12 PMD-I/DD/K55/1

As per the above standard:

With its compact design and innovative concept, PowerTag Energy 63 A fits directly on the protective device and as a result has no impact on DIN rail occupancy and switchboard size.

It is therefore well adapted to be mounted from head of group down to final circuits.

Since voltage and current are measured directly at the same point on the circuit to be monitored, it provides accurate measurement and relevant information such as voltage loss.

PowerTag Energy is compatible with SE product ranges as per the selection guide CA908058.

Main characteristics

PowerTag Energy measures the following values in accordance with the IEC 61557-12 standard PMD-I/DD/K55/1:

- Energy:
 - Active energy (kWh): total and partial, delivered and received.
- Real-time measurement values:
 - Voltages (V): phase-to-phase and phase-to-neutral.
 - Currents (A): per phase.
 - Power:
 - Active power (W): total and per phase.
 - Apparent power (VA): total.
 - Power factor.
- Voltage loss alarms:
 - PowerTag Energy sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
 - At “voltage loss”, PowerTag Energy adds an overload alarm if the current is higher than the rated current of the associated protective device.

Note: Functions listed above depends on Concentrator/Gateway.



PowerTag Energy
Monoconnect 63 A (M63)



PowerTag Energy
PhaseNeutral 63 A (P63)



PowerTag Energy
Flex 63 A (F63)



PowerTag Energy

Product selection

Neutral position

Some references of PowerTag Energy 63 A (Monoconnect and PhaseNeutral) exist in Top or Bottom version.

This is linked to the position of the neutral of the PowerTag Energy.



PowerTag Energy "Top"

- Designed to be mounted on the Top of the circuit breaker.



- Designed to be mounted on the Bottom of the circuit breaker.

PowerTag Energy "Bottom"

Note:

- Some PowerTag Energy can be installed either on the TOP or on the BOTTOM of the protective devices.
- Check the possible mounting position as indicated in the "Catalog numbers" chapter.
- In association with a contactor, a Variable Speed Drive or a motor starter: PowerTag Energy can ONLY be installed UPSTREAM these devices.

Number of poles

Choose the PowerTag Energy according to the number of poles of the protective device: one PowerTag Energy per protective device.

Ex.: 3 Pole PowerTag Energy 63 A for a 3 pole CB.

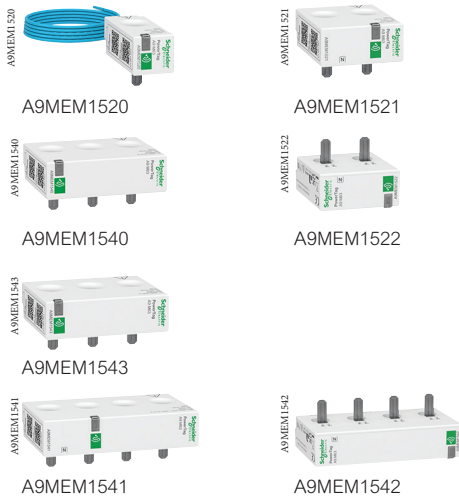


PowerLogic™ PowerTag Energy 63 A

Technical specifications

Main characteristics				
Rated voltage	1P+N / 1P+W	Un	Phase-to-neutral	200... 240 V AC ± 20 %
	3P	Un	Phase-to-phase	380... 415 V AC ± 20 %
	3P+N	Un	Phase-to-neutral	220... 240 V AC ± 20 %
			Phase-to-phase	380... 415 V AC ± 20 %
	A9MEM1543	Un	Phase-to-phase	200... 240 V AC ± 20 %
	A9MEM1564	Un	Phase-to-neutral	100... 127 V AC ± 20 %
	A9MEM1574	Un	Phase-to-neutral	120... 137 V AC ± 20 %
			Phase-to-phase	208... 240 V AC ± 20 %
A9MEM1575	Un	Phase-to-phase	480 V AC ± 20 %	
Frequency				50/60 Hz
Maximum current		Imax		63 A
Basic current		Ib		10 A
Saturation current				130 A
Maximum consumption			1P+N	≤ 1 VA
			3P/3P+N	≤ 2 VA
Starting current		Ist	40 mA	
Additional characteristics				
Operating temperature				-25°C to +60°C
Storage temperature				-40°C to +85°C
Overvoltage category			As per IEC 61010-1	Cat. III
Measuring category			As per IEC 61010-2-030	Cat. III
Pollution degree				3
Altitude				≤ 2000 m
Degree of protection			Device only	IP20
			IK	05
Radio-frequency communication				
ISM band 2.4 GHz				2.4 GHz to 2.4835 GHz
Channels			As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power			Equivalent (EIRP)	0 dBm
Maximum transmission time				< 5 ms
Channel occupancy			Messages sent every	5 seconds minimum
Characteristics of measuring functions				
Function	Symbol	Performance category as per IEC 61557-12 (PMD-I/DD/K55/1)		Device measuring range
		Class		
Active power	P	1		9 W to 63 kW
Active energy	Ea	1		Total and partial 0 to 99999999.9 kWh
Current	I	1		40 mA to 63 A
Voltage	U	0.5		Un ± 20 %
Power factor	PFA	1		0 to 1

PowerLogic™ PowerTag Energy 63 A



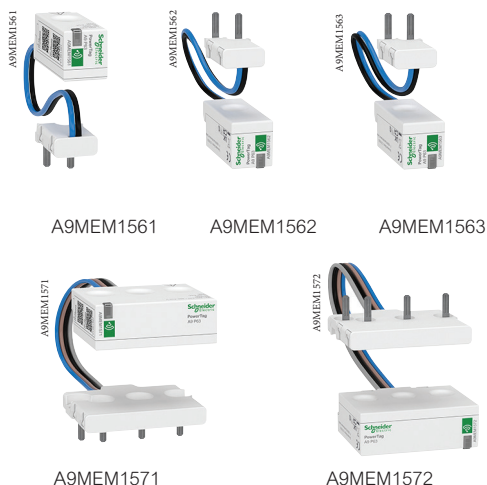
PowerTag Energy Monoconnect 63 A

Commercial reference numbers

PowerTag Energy for Acti9 and Multi9 **Monoconnect** offers: «Single-terminal» circuit breakers, RCDs and switches with **18 mm pitch between phase and neutral**, rating less than or equal to 63 A.

Commercial reference no.	Type	Mounting	Description	Certification
A9MEM1520	1P+wire	Top or bottom	M63 1PW	DNV
A9MEM1521	1P+N	Top	M63 1PN T	DNV
A9MEM1522		Bottom	M63 1PN B	DNV
A9MEM1540	3P	Top or bottom	M63 3P	DNV
A9MEM1543			M63 3P 230V LL	DNV
A9MEM1541	3P+N	Top	M63 3PN T	DNV
A9MEM1542		Bottom	M63 3PN B	DNV

Designed to fit the following devices: iC60, Reflex iC60, DT60, iLD.
Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the selection guide CA908058.



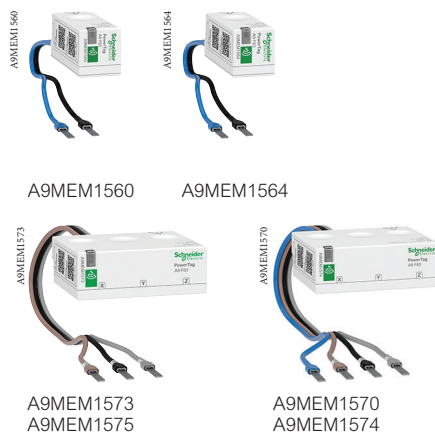
PowerTag Energy PhaseNeutral 63 A

Commercial reference numbers

PowerTag Energy for Acti9 and Multi9 **PhaseNeutral** offers: «Single-terminal» circuit breakers, RCDs and switches at **pitch of 9 mm between phase and neutral**, rating less than or equal to 63 A.

Commercial reference no.	Type	Mounting	Description	Certification
A9MEM1561	1P+N	Top	P63 1PN T	DNV
A9MEM1562	1P+N	Bottom	P63 1PN B	DNV
A9MEM1563	1P+N RCBO	Bottom	P63 1PN B RCBO 18mm	DNV
A9MEM1571	3P+N	Top	P63 3PN T	DNV
A9MEM1572	3P+N	Bottom	P63 3PN B	DNV

Designed to fit the following devices: DT40, iDPN, C40, iDPN Vigi.
Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the selection guide CA908058.



PowerTag Energy Flex 63 A

Commercial reference numbers

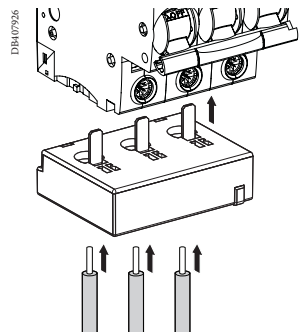
PowerTag Energy **Flex** for other devices and specific installations, rating less than or equal to 63 A.

Commercial reference no.	Type	Mounting	Description	Certification
A9MEM1560	1P+N	Top or bottom	F63 1PN	DNV
A9MEM1564	1P+N	Top or bottom	F63 1PN 110V	DNV
A9MEM1573	3P	Top or bottom	F63 3P	DNV
A9MEM1575	3P	Top or bottom	F63 3P 480V LL IEC/UL	UL US LISTED
A9MEM1570	3P+N	Top or bottom	F63 3PN	DNV
A9MEM1574	3P+N	Top or bottom	F63 3PN 127/220V	DNV

Designed to fit the following devices: Vigi iDT40, Vigi iC40, Vigi iC60, iC60 double terminal, iLD double terminal.
Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the selection guide CA908058.

Contact your Schneider Electric representative for complete ordering information.

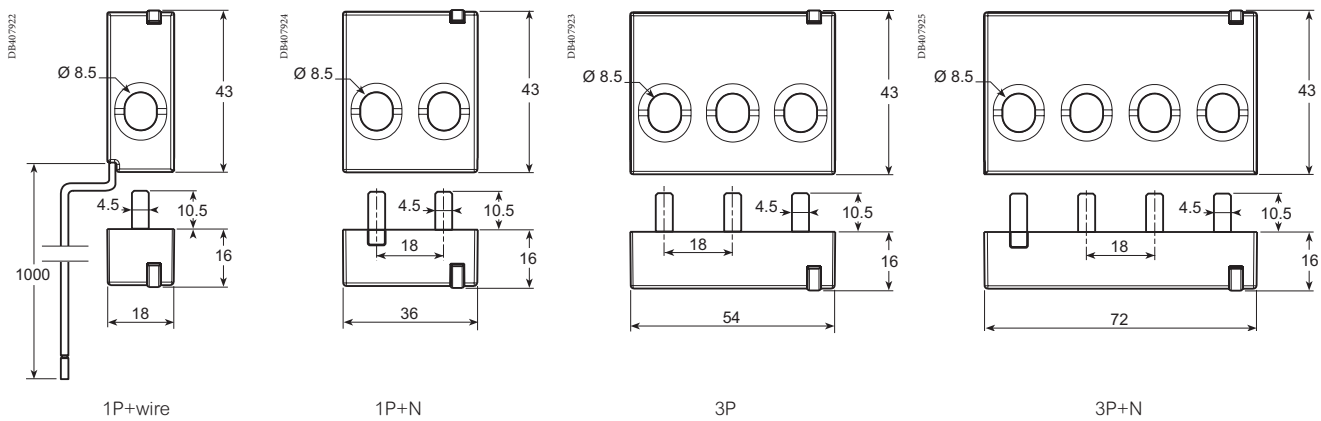
PowerTag Energy Monoconnect 63 A connection



Stripping length	Copper cables					
	Rigid		Flexible		Flexible with ferrule	
						
18 mm	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14

Mounting with 18 mm ferrule recommended.

PowerTag Energy Monoconnect 63 A dimensions (mm)

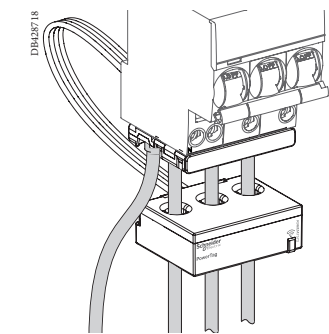


PowerTag Energy Monoconnect 63 A weight

Type	Weight (g)
1P+wire	16.4
1P+N	17.5
3P	28
3P+N	35

Please refer to PowerTag Energy 63 A Installation Sheet for accurate and complete information on the installation of this product.

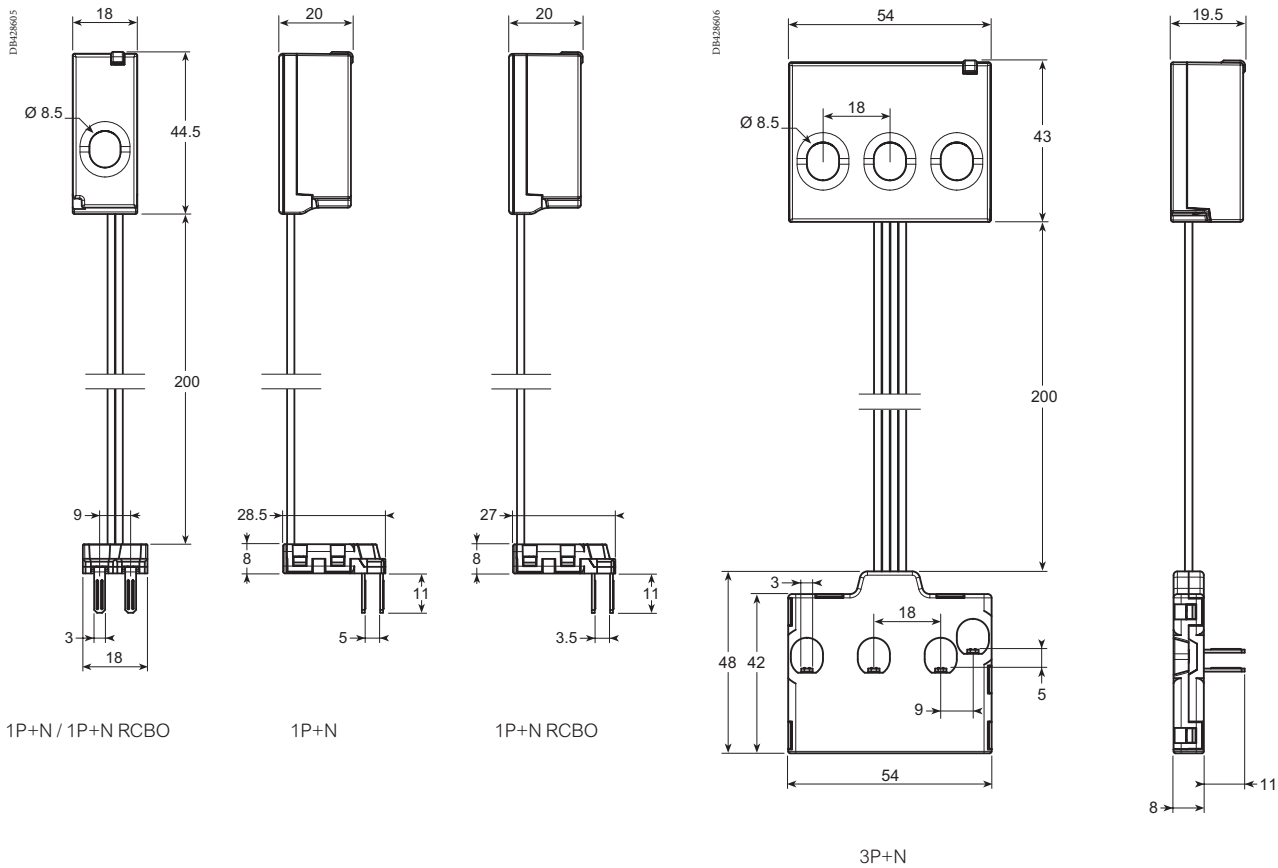
PowerTag Energy PhaseNeutral 63 A connection



Copper cables					
Rigid		Flexible		Flexible with ferrule	
					
1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14

Stripping length: respect the stripping length stated on the device the PowerTag Energy is associated with.

PowerTag Energy PhaseNeutral 63 A dimensions (mm)

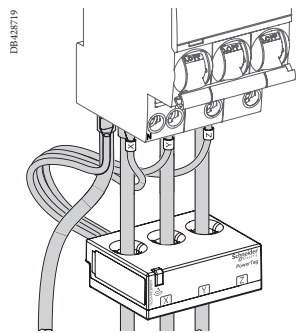


PowerTag Energy PhaseNeutral 63 A weight

Type	Weight (g)
1P+N	18
3P+N	48

Please refer to PowerTag Energy 63 A Installation Sheet for accurate and complete information on the installation of this product.

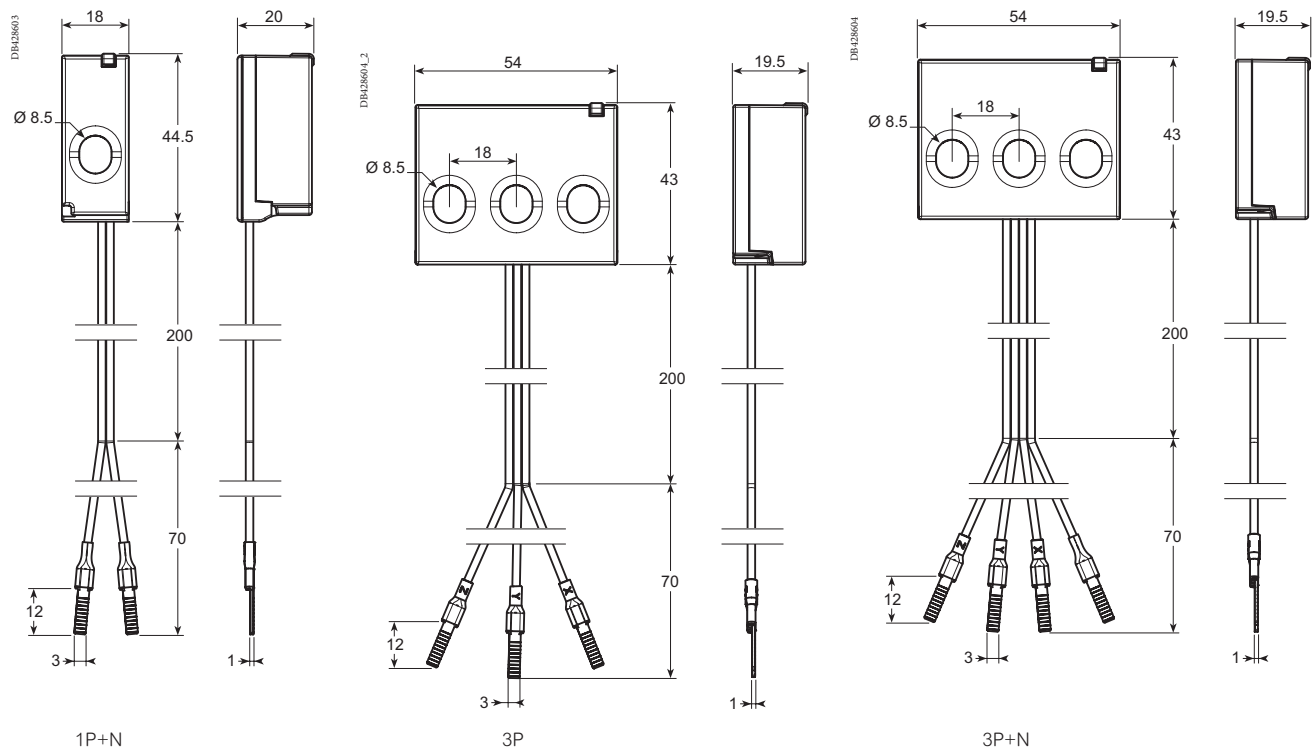
PowerTag Energy Flex 63 A connection



Copper cables					
Rigid		Flexible		Flexible with ferrule	
1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14	1.5 to 16 mm ² AWG: 16...6	2 x 1.5 to 2.5 mm ² AWG: 16...14

Stripping length: respect the stripping length stated on the device the PowerTag Energy is associated with.

PowerTag Energy Flex 63 A dimensions (mm)



PowerTag Energy Flex 63 A weight

Type	Weight (g)
1P+N	16
3P	38
3P+N	40

Please refer to PowerTag Energy 63 A Installation Sheet for accurate and complete information on the installation of this product.



PowerLogic™

PowerTag Energy 63 A Resi9

IEC 61557-12 PMD-I/DD/K55/1

As per the above standard:

PowerTag Energy Resi9 is a wireless communication energy sensor.

Used together with Wiser gateway to collect and process the data, it provides circuit monitoring down to load level.

With its compact design and innovative concept, PowerTag Energy Resi9 fits directly on the protective device and as a result has no impact on DIN rail occupancy and switchboard size.

Wireless communication technology simplifies switchboard wiring and commissioning process.

System scalability : PowerTag Energy Resi9 can be quickly and easily installed in new or existing panel at any time.

Main characteristics

PowerTag Energy Resi9 measures the following values in accordance with the IEC 61557-12 standard:

- Energy:
 - Active Energy (kWh): Class1 accuracy, Total, delivered and received.
- Voltage loss alarm:
 - PowerTag Energy Resi9 sends a “voltage loss” alarm before being de-energized.



PowerTag Energy
Monoconnect 63 A (M63)



PowerTag Energy
Monoconnect 63 A (M63)



PowerLogic™ PowerTag Energy 63 A Resi9

Installation

Some references of PowerTag Energy 63 A Resi9 (Monoconnect) exist in Top or Bottom version. This is linked to the position of the neutral of the PowerTag Energy.



PowerTag Energy
"Top"

- Designed to be mounted on the Top of the circuit breaker.



- Designed to be mounted on the Bottom of the circuit breaker.

PowerTag Energy
"Bottom"

Note:

- Some PowerTag Energy 63 A Resi9 can be installed either on the TOP or on the BOTTOM of the protective devices.
- Check the possible mounting position as indicated in the "Catalog numbers" chapter.
- In association with a contactor, a Variable Speed Drive or a motor starter: PowerTag Energy can ONLY be installed UPSTREAM these devices.

Number of poles

Choose the PowerTag Energy according to the number of poles of the protective device: one PowerTag Energy per protective device.

Ex.: 3 pole PowerTag Energy 63 A Resi9 for a 3 pole CB.





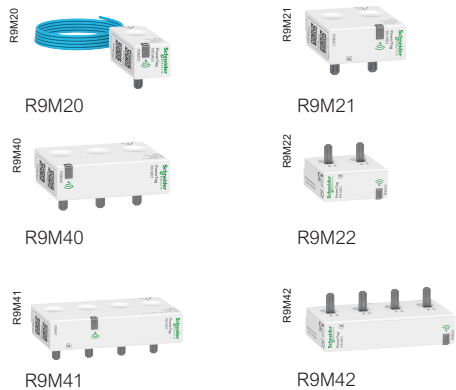
PowerLogic™ PowerTag Energy 63 A Resi9

Technical specifications

Main characteristics				
Rated voltage	1P+N / 1P+W	Un	Phase-to-neutral	200... 240 V AC ± 20 %
	3P	Un	Phase-to-phase	380... 415 V AC ± 20 %
	3P+N	Un	Phase-to-neutral	220... 240 V AC ± 20 %
			Phase-to-phase	380... 415 V AC ± 20 %
Frequency				50/60 Hz
Maximum current		Imax		63 A
Basic current		Ib		10 A
Saturation current				130 A
Maximum consumption			1P+N	≤ 1 VA
			3P/3P+N	≤ 2 VA
Starting current		Ist		40 mA
Additional characteristics				
Operating temperature				-25°C to +60°C
Storage temperature				-40°C to +85°C
Overvoltage category			As per IEC 61010-1	Cat. III
Measuring category			As per IEC 61010-2-030	Cat. III
Pollution degree				3
Altitude				≤ 2000 m
Degree of protection			Device only	IP20
			IK	05
Radio-frequency communication				
ISM band 2.4 GHz				2.4 GHz to 2.4835 GHz
Channels			As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power			Equivalent (EIRP)	0 dBm
Maximum transmission time				< 5 ms
Channel occupancy			Messages sent every	5 seconds minimum
Characteristics of measuring functions				
Function	Symbol	Performance category as per IEC 61557-12 (PMD-I/DD/K55/1)		Device measuring range
		Class		
Active energy (delivered and received)	Ea	1		Total and partial 0 to 99999999.9 kWh
Current	I	1		40 mA to 63 A
Voltage	U	0.5		Un ± 20 %



PowerLogic™ PowerTag Energy 63 A Resi9

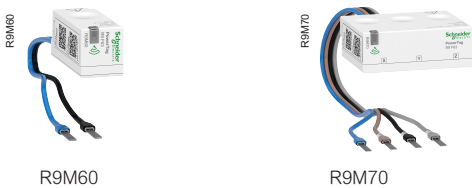


PowerTag Energy Monoconnect 63 A Resi9 Commercial reference numbers

PowerTag Energy for Resi9 Monoconnect offers: «Single-terminal» circuit breakers, RCDs and switches with 18 mm pitch between phase and neutral, rating less than or equal to 63 A.

Commercial reference number	Type	Mounting	Description
R9M20	1P+wire	Top or bottom	PowerTag Energy R9 M63 1PW
R9M21	1P+N	Top	PowerTag Energy R9 M63 1PN T
R9M22		Bottom	PowerTag Energy R9 M63 1PN B
R9M40	3P	Top or bottom	PowerTag Energy R9 M63 3P
R9M41	3P+N	Top	PowerTag Energy R9 M63 3PN T
R9M42		Bottom	PowerTag Energy R9 M63 3PN B

Refer to the Resi9 catalog in your country to select the right PowerTag Energy model to fit on the Resi9 protective device you want to equipped.



PowerTag Energy Flex 63 A Resi9 Commercial reference numbers

PowerTag Energy Flex for other Resi9 devices and specific installations, rating less than or equal to 63 A.

Commercial reference number	Type	Mounting	Description
R9M60	1P+N	Top or bottom	PowerTag Energy R9 F63 1PN
R9M70	3P+N	Top or bottom	PowerTag Energy R9 F63 3PN

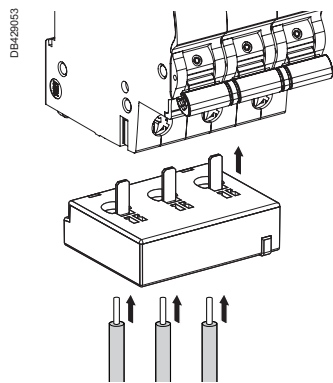
Refer to the Resi9 catalog in your country to select the right PowerTag Energy model to fit on the Resi9 protective device you want to equipped.

To allow PowerTag Energy Resi9 F63 to adapt to different types of terminals, the voltage tap lugs can be replaced with other end-pieces or lugs for AWG22/0.33 mm² wires.



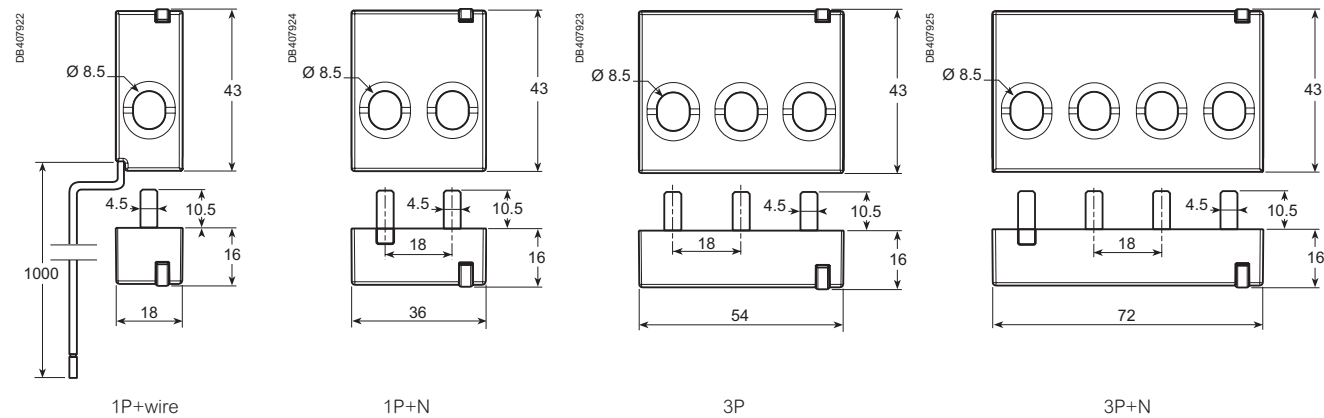
PowerLogic™ PowerTag Energy 63 A Resi9

PowerTag Energy R9 M63 connection



Stripping length : 18 mm

PowerTag Energy R9 M63 dimensions (mm)



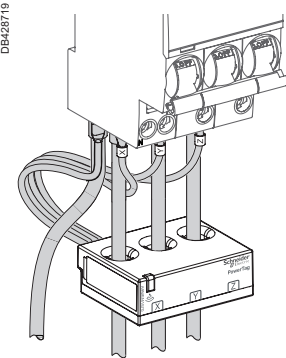
PowerTag Energy R9 M63 weight

Type	Weight (g)
1P+wire	16.4
1P+N	17.5
3P	28
3P+N	35



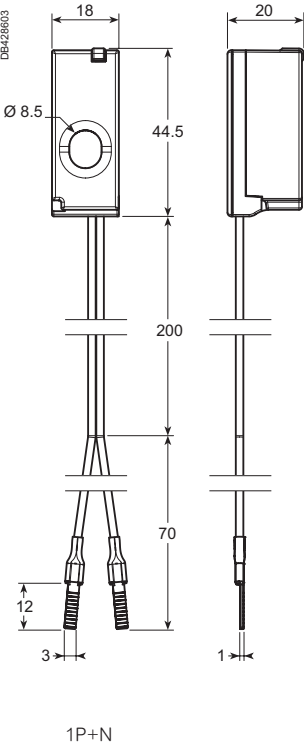
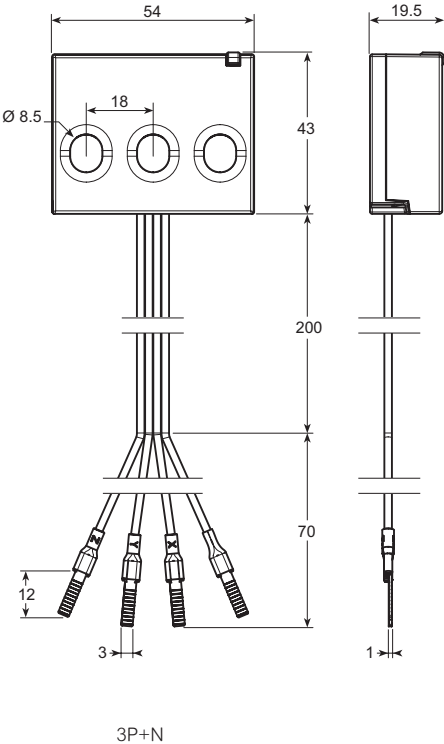
PowerLogic™ PowerTag Energy 63 A Resi9

PowerTag Energy R9 F63 connection



Stripping length: respect the stripping length stated on the device the PowerTag Energy is associated with.

PowerTag Energy R9 F63 dimensions (mm)



PowerTag Energy R9 F63 weight

Type	Weight (g)
1P+N	16
3P	40

Please refer to PowerTag Energy 63 A Resi9 Installation Sheet for accurate and complete information on the installation of this product.

PowerLogic™

PowerTag Energy Flex 160 A

IEC 61557-12 PMD-II/DD/K70/1

As per the above standard:

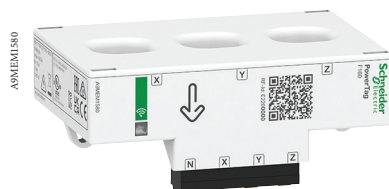
With its flex design this PowerTag Energy can be used on many products or group of loads up to 160 A on 3P or 3P+N networks. Its removable spring connector for voltage picking facilitates its installation, and shapes for brackets allows to mount and maintain it where needed in a panel.

Main characteristics

PowerTag Energy Flex 160 A measures the following values in accordance with the IEC 61557-12 standard PMD-II/DD/K70/1:

- Energy (4 quadrants):
 - Active energy (kWh): total and partial, delivered and received.
 - Active energy per phase (kWh): total and partial, delivered and received.
 - Reactive energy (kVARh): total and partial, delivered and received.
 - Reactive energy per phase (kVARh): total and partial, delivered and received.
 - Apparent energy (kVAh): total and partial.
 - Apparent energy per phase (kVAh): total and partial.
- Real-time measurement values:
 - Voltages (V): phase-to-phase (U12, U23, U31) and phase-to-neutral (V1N, V2N, V3N).
 - Currents (A): per phase (I1, I2, I3), calculated neutral current when connected (IN) .
 - Power:
 - Active power (W): total and per phase.
 - Reactive power (VAR): total and per phase.
 - Apparent power (VA): total and per phase.
 - Frequency (Hz).
 - Power factor: total and per phase.
- Voltage loss alarms:
 - PowerTag Energy Flex sensor sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
 - At “voltage loss”, PowerTag Energy Flex adds an overload alarm if the current is higher than the rated current of the associated protective device

Note: Functions listed above depends on Concentrator/Gateway.



PowerTag Energy Flex 160 A



PowerTag Energy

Installation

PowerTag Energy Flex 160 A can be installed in a panel directly on cables or busbars, associated to a product or not. Voltage pickings removable spring terminal has to be wired by 1 copper wire per phase with following characteristics:

Wire range

Solid	Stranded	Stranded with terminal ends
0.2...1.5 mm ²	0.2...2.5 mm ²	0.25...1.5 mm ²
24...16 AWG	24...14 AWG	24...16 AWG

Neutral picking shall be connected to have phase-to-neutral voltages, energy per phase and power per phase provided.

PowerTag Energy Flex 160 A is mainly advised for ComPact NSXm, ComPact INS160, Acti9 NG125, Acti9 C120, PowerPact B, TeSys GV4, and all other devices with a rating between 63 A and 160 A.



PowerLogic™ PowerTag Energy Flex 160 A

Technical specifications

Main characteristics (as per IEC 61557-12)			
Rated voltage	Un	Phase-to-neutral	100...277 VAC ± 20 %
		Phase-to-phase	173...480 VAC ± 20 %
Frequency			50/60 Hz
Maximum current	I _{max}		160 A
Maximum operating current			1.2 x I _{max}
Saturation current			2 x I _{max}
Maximum consumption			3 VA
Starting current	I _{st}		100 mA
Basic current	I _b		25 A
Additional characteristic			
Operating temperature			-25 °C to +70 °C
Storage temperature			-40 °C to +85 °C
Overvoltage category		As per IEC 61010-1	Cat. IV
Measuring category		As per IEC 61010-2-030	Cat. IV
Pollution degree			3
Altitude			Up to 2000 m without derating ⁽¹⁾
Degree of protection device			IP20
			IK05
Radio-frequency communication			
ISM band 2.4 GHz			2.4 GHz to 2.4835 GHz
Channels		As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power		Equivalent (EIRP)	0 dBm
Maximum transmission time			< 5 ms
Channel occupancy		For 1 device	messages sent every 5 seconds
Characteristics of measuring functions			
Function	Symbol	Performance category as per IEC 61557-12 (PMD-II/DD/K70/1)	Device measuring range
		Class	
Total active power (Active power per phase)	P	1	24 W (8 W) to 192 kW
Total reactive power (Reactive power per phase)	Q _A	2	30 VAR (10 VAR) to 192 kVAR
Total apparent power (Apparent power per phase)	S _A	2	38 VA (13 VA) to 192 kVA
Active Energy: per phase, total, partial, delivered and received	E _a	1	0 to 281.10 ⁹ kWh
Reactive energy: per phase, total, partial, delivered and received	E _{rA}	2	0 to 281.10 ⁹ kVARh
Apparent energy: per phase, total, partial	E _{apA}	2	0 to 281.10 ⁹ kVAh
Frequency	f	0.5	45 to 65 Hz
Phase current	I	1	100 mA to 320 A
Neutral current	I _{NC}	2	
Voltages (Line to Line)	U	0.5	138 to 576 VAC
Power factor (per phase, total)	PF _A	1	-1 to 1

(1) Above 2000 m, please consult us.

PowerLogic™ PowerTag Energy Flex 160 A



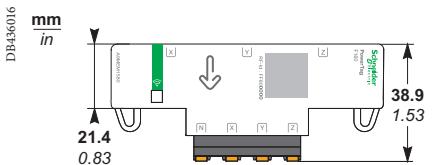
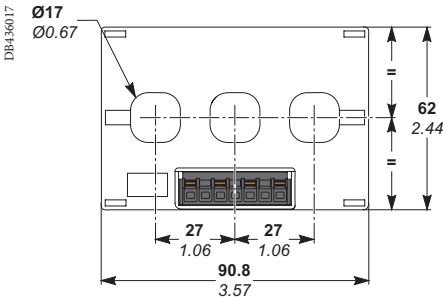
A9MEM1580

PowerTag Energy Flex 160 A
Commercial reference numbers

Commercial reference number	Type	Description	Certification
A9MEM1580	F160 3P/3P+N	Flex 160 A 3P / 3P+N	 DNV

Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the selection guide CA908058.

PowerTag Energy Flex 160 A dimensions



PowerTag Energy Flex 160 A weight

Type	Weight (g)
F160 3P/3P+N	100

Contact your Schneider Electric representative for complete ordering information.
Please refer to PowerTag Energy Flex 160 A Installation Sheet for accurate and complete information on the installation of this product.



PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

IEC 61557-12 PMD-II/DD/K70/1

As per the above standard:

PowerTag Energy M250/M630 is designed for Molded Case Circuit Breakers and Switches (ComPact, EasyPact CVS and TeSys) for 3P and 3P+N electrical networks. This PowerTag Energy is mounted directly on the bottom side of the circuit breaker or the Vigi add-on if any. Thanks to its integrated design, it does not require any specific wiring, and is compatible with the same connection accessories than the device it is mounted on.

Main characteristics

PowerTag Energy M250/M630 measures the following values in accordance with the IEC 61557-12 standard PMD-II/DD/K70/1:

- Energy (4 quadrants):
 - Active energy (kWh): total and partial, delivered and received.
 - Active energy per phase (kWh): total.
 - Reactive energy (kVARh): partial, delivered and received.
- Real-time measurement values:
 - Voltages (V): phase-to-phase (U12, U23, U31) and phase-to-neutral (V1N, V2N, V3N).
 - Currents (A): per phase (I1, I2, I3).
 - Power:
 - Active power (W): total and per phase.
 - Reactive power (VAR): total.
 - Apparent power (VA): total.
 - Frequency (Hz).
 - Power factor.
- Voltage loss alarms:
 - PowerTag Energy sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
 - At “voltage loss”, PowerTag Energy adds an overload alarm if the current is higher than the rated current of the associated protective device.

Note: Functions listed above depends on Concentrator/Gateway.



PowerTag Energy Monoconnect 250 A



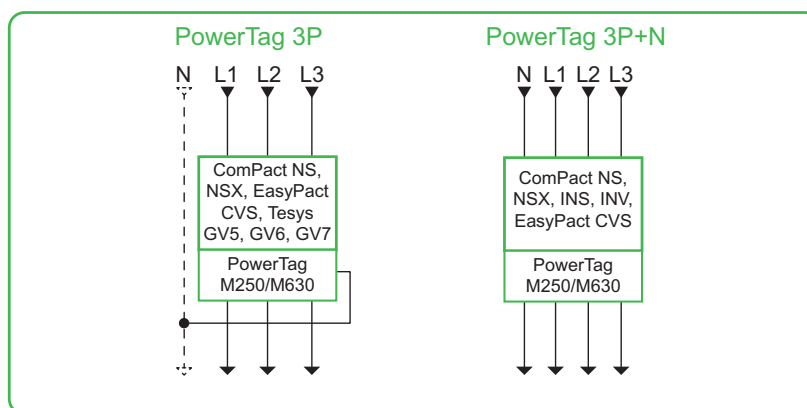
PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

Installation

The module is self-powered and is installed for fixed devices directly on the bottom side of the circuit breaker or Vigi add-on terminals. For plug-in devices, it has to be installed on the base itself, top or bottom.

PowerTag Energy M250/M630 3P has to be used with 3P devices, and an external neutral voltage tap is provided in case of the installation has a neutral to provide phase-to-neutral voltages, active energy per phase and power per phase.

PowerTag Energy M250/M630 3P+N has to be used with 4P devices and with ComPact INS/INV 3P/4P switches



PowerTag M250/M630 modules are compatible with ComPact NSX100/160/250, ComPact NSX400/630, ComPact INS250-100A to 250A, ComPact INS320/400/500/630, ComPact INV100/160/200/250, ComPact INV320/400/500/630, ComPact NS100/160/250, ComPact NS400/630, EasyPact CVS 100-250, EasyPact CVS 400-630, TeSys GV5, TeSys GV6 and TeSys GV7.

Important notice : A derating coefficient may apply for the circuit-breaker on which the PowerTag is mounted on. Refer to the circuit breaker catalogue for derating coefficient.

In case of retrofit, following points have to be checked:

- Clearance to be able to add PowerTag Energy module and to respect bending radius of cables.
- Condition of power connectors: to be replaced if damaged.
- Tightening torques depending of the connector used.





PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

Technical specifications

Main characteristics			
Rated voltage	Un	Phase-to-neutral	230 VAC ± 20 %
		Phase-to-phase	400 VAC ± 20 %
Frequency			50/60 Hz
Maximum current	I _{max}		250 A / 630 A
Maximum operating current			1.2 × I _{max}
Saturation current			2 × I _{max}
Maximum consumption			3.7 VA
Starting current	I _{st}		160 mA / 400 mA
Basic current	I _b		40 A / 100 A
Additional characteristic			
Operating temperature			-25 °C to +70 °C
Storage temperature			-50 °C to +85 °C
Overvoltage category		As per IEC 61010-1	Cat. IV
Measuring category		As per IEC 61010-2-030	Cat. III
Pollution degree			3
Altitude			Up to 2000 m without derating ⁽¹⁾
Degree of protection device			IP20
			IK07
Radio-frequency communication			
ISM band 2.4 GHz			2.4 GHz to 2.4835 GHz
Channels		As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power		Equivalent (EIRP)	0 dBm
Maximum transmission time			< 5 ms
Channel occupancy		For 1 device	messages sent every 5 seconds
Characteristics of measuring functions			
Function	Symbol	Performance category as per IEC 61557-12 (PMD-II/DD/K70/1)	Device measuring range (250 A / 630 A)
		Class	
Total active power (Active power per phase)	P	1	88 W (29 W) to 416 kW / 222 W (74 W) to 1048 kW
Total reactive power	Q _A	2	88 VAR to 416 kVAR / 221 VAR to 1048 kVAR
Total apparent power	S _A	2	88 VA to 416 kVA / 221 VA to 1048 kVA
Active Energy: per phase, total, partial	E _a	1	0 to 281.10 ⁹ kWh
Partial Reactive Energy	E _{rA}	2	0 to 281.10 ⁹ kVARh
Phase current	I	1	160 mA to 500 A / 400 mA to 1260 A
Voltages (Line to Line)	U	0.5	320 to 480 VAC
Power factor	PF _A	1	-1 to 1

⁽¹⁾ Above 2000 m, please consult us.



PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A



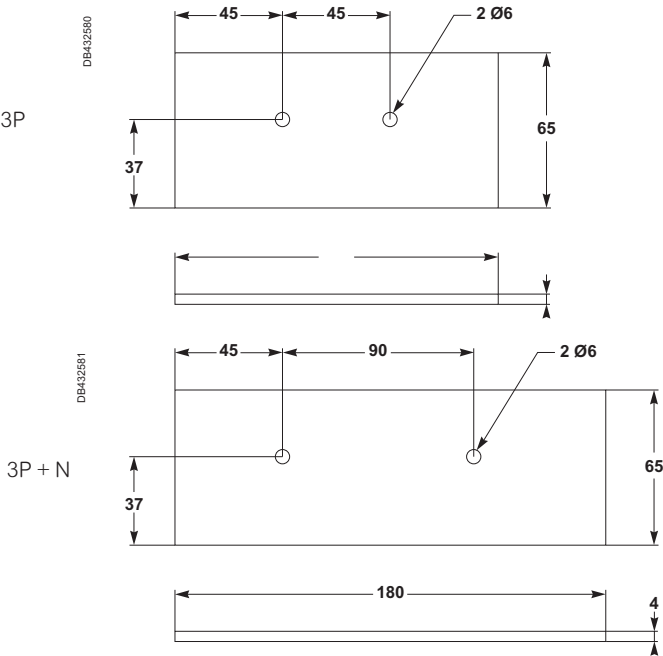
PowerTag Energy Monoconnect 250 A & 630 A
Commercial reference numbers

Commercial reference number	Type	Description	Certifications	Connection adapter for mounting on plug-in base only
LV434020	M250 3P	PowerTag Energy 250 A 3P	DNV	LV429306
LV434021	M250 3P+N	PowerTag Energy 250 A 3P+N	DNV	LV429307
LV434022 ⁽¹⁾	M630 3P	PowerTag Energy 630 A 3P	DNV	LV432584
LV434023 ⁽¹⁾	M630 3P+N	PowerTag Energy 630 A 3P+N	DNV	LV432585

Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the Selection Guide pages 95 to 105.

Contact your Schneider Electric representative for complete ordering information.

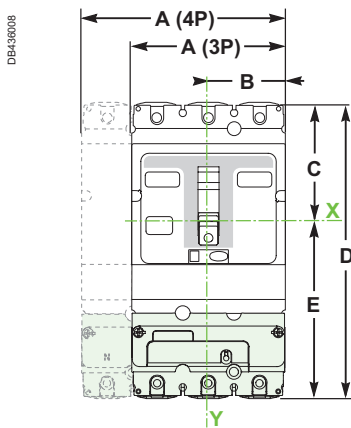
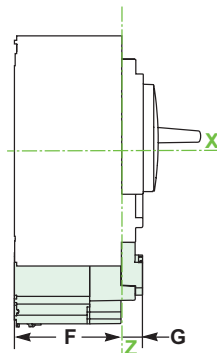
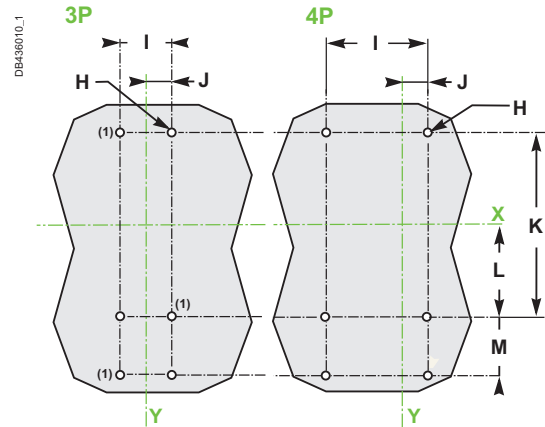
(1) For plug-in devices only; when plate mounted, need to add an intercalary wedging plate under the PowerTag Energy module with following dimensions:



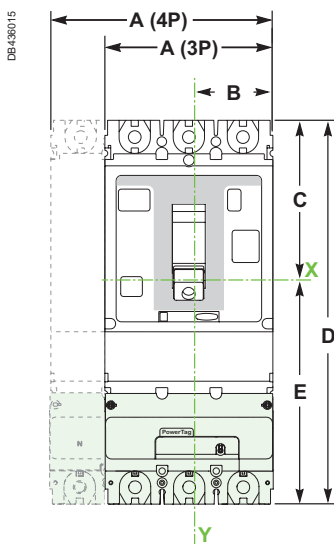
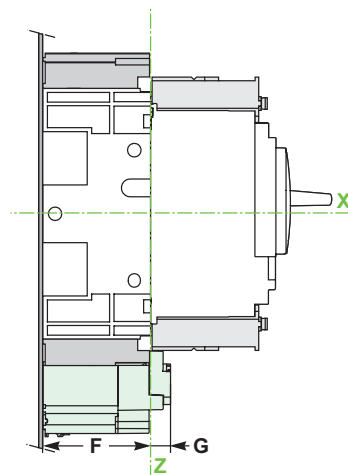
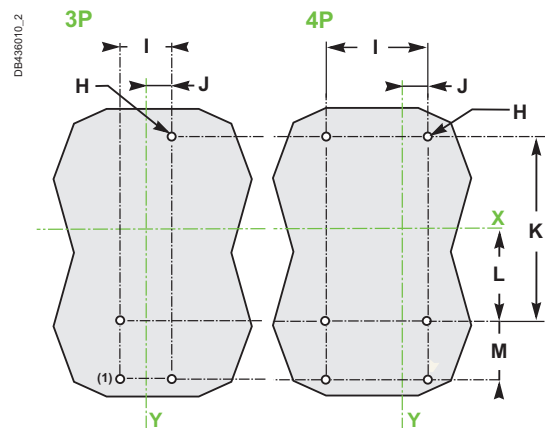


PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

NSX100-250 / NSX400-630 / CVS100-250 / CVS400-630



(1) Only for PowerTag M630



(1) Only for PowerTag M630

mm in	A		B	C	D	E	F	G	H		I		J		K	L	M
	3P	4P							3P	4P	3P	4P	3P	4P			
NSX100-250	105	140	52.5	80.5	201	120.5	72	14	3 Ø6	6 Ø6	35	70	17.5	17.5	125	62.5	40
CVS 100-250	4.13	5.51	2.06	3.17	7.91	4.74	2.83	0.55	3 Ø0.23	6 Ø0.23	1.34	2.75	0.68	0.68	4.92	2.46	1.57
NSX400-630	140	185	70	127.5	320	192.5	96	14	6 Ø6	6 Ø6	45	90	22.5	22.5	200	100	65
CVS 400-630	5.51	7.28	2.75	5.02	12.59	7.57	3.78	0.55	6 Ø0.23	6 Ø0.23	1.77	3.5	0.88	0.88	7.87	3.93	2.56
NSX100-250 with plug-in base	105	140	52.5	109	260	151	72	14	3 Ø6	6 Ø6	35	70	17.5	17.5	155	77.5	55
	4.13	5.51	2.06	4.29	10.23	5.94	2.83	0.55	3 Ø0.23	6 Ø0.23	1.34	2.75	0.68	0.68	6.10	3.05	2.16
NSX400-630 with plug-in base	140	185	70	153	406	253	100	14	4 Ø06	6 Ø6	45	90	22.5	22.5	250	125	83
	5.51	7.28	2.75	6.02	15.98	9.96	3.93	0.55	4 Ø0.23	6 Ø0.23	1.77	3.5	0.88	0.88	9.84	4.92	3.26

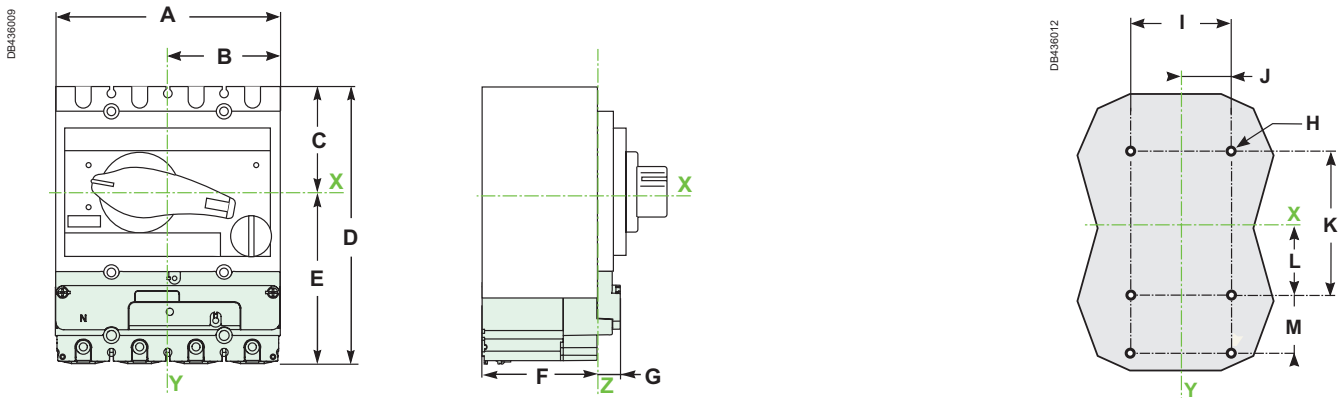
Please refer to PowerTag Energy 250 A & 630 A Installation Sheet for accurate and complete information on the installation of this product.



PowerLogic™ PowerTag Energy Monoconnect 250 A & 630 A

INS250 / INV100-250

INS320-630 / INV320-630



mm in	A	B	C	D	E	F	G	H	I	J	K	L	M
INS250 INV100-250	140 5.51	70 2.75	68 2.67	176 6.93	108 4.25	72 2.83	14 0.55	6 Ø6 6 Ø0.23	70 2.75	35 1.37	100 3.93	50 1.96	40 1.57
INS320-630 INV320-630	185 7.28	92.5 3.64	102.5 4.03	270 10.62	167.5 6.59	96 3.78	14 0.55	6 Ø6 6 Ø0.23	90 3.5	45 1.77	150 5.9	75 2.95	65 2.56

PowerTag Energy Monoconnect 250 A & 630 A weight

Type	Weight (g)
M250 3P	250
M250 3P+N	300
M630 3P	800
M630 3P+N	1000

Please refer to PowerTag Energy 250 A & 630 A Installation Sheet for accurate and complete information on the installation of this product.

PowerLogic™ PowerTag Energy Rope 200 A to 2000 A

IEC 61557-12 PMD-II/DD/K70/1

As per the above standard:

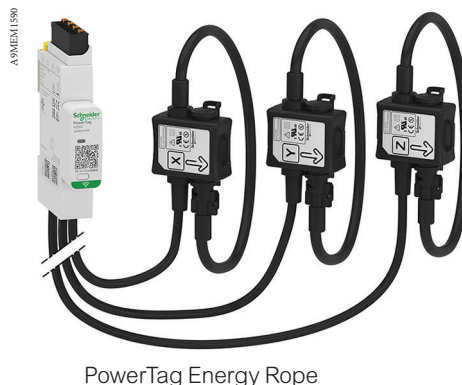
With its flexible and openable current sensors, this PowerTag Energy Rope can be installed easily on busbars and cables without having to disconnect the conductors, and is suitable for 3P or 3P+N networks. Its removable spring connector for voltage picking facilitates its installation, and the module can be mounted on a DIN rail or maintained with brackets where needed in a panel.

Main characteristics

PowerTag Energy Rope measures the following values in accordance with the IEC 61557-12 standard PMD-II/DD/K70/1:

- Energy (4 quadrants):
 - Active energy (kWh): total and partial, delivered and received.
 - Active energy per phase (kWh): total and partial, delivered and received.
 - Reactive energy (kVARh): total and partial, delivered and received.
 - Reactive energy per phase (kVARh): total and partial, delivered and received.
 - Apparent energy (kVAh): total and partial.
 - Apparent energy per phase (kVAh): total and partial.
- Real-time measurement values:
 - Voltages (V): phase-to-phase (U12, U23, U31) and phase-to-neutral (V1N, V2N, V3N).
 - Currents (A): per phase (I1, I2, I3), calculated neutral current when connected (IN).
 - Power:
 - Active power (W): total and per phase.
 - Reactive power (VAR): total and per phase.
 - Apparent power (VA): total and per phase.
 - Frequency (Hz).
 - Power factor: total and per phase.
- Voltage loss alarms:
 - PowerTag Energy Rope sensor sends a “voltage loss” alarm and the current-per-phase value before being de-energized.
 - At “voltage loss”, PowerTag Energy Rope adds an overload alarm if the current is higher than the rated current of the associated protective device.

Note: Functions listed above depends on Concentrator/Gateway.



PowerTag Energy

Installation

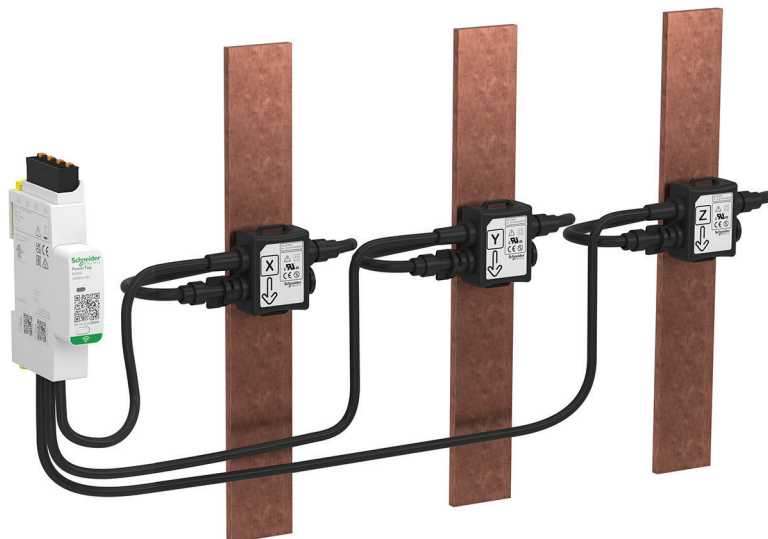
PowerTag Energy Rope 18 mm module can be mounted on DIN rail or fastened with brackets anywhere in a panel. Then its openable current sensors have to be installed around conductors, cables or busbars, whatever they are insulated or not. Voltage pickings removable spring terminal has to be wired by 1 copper wire per phase with following characteristics:

Wire range

Solid	Stranded	Stranded with terminal ends
0.2...1.5 mm ²	0.2...2.5 mm ²	0.25...1.5 mm ²
24...16 AWG	24...14 AWG	24...16 AWG

Neutral picking shall be connected to have phase-to-neutral voltages, energy per phase and power per phase provided.

PowerTag Energy Rope is mainly advised for ComPact NS, MasterPact NT and NW, MasterPact MTZ NA and HA, for retrofit, for group of loads, and for all other devices with a rating up to 2000 A.



PowerLogic™ PowerTag Energy Rope 200 A to 2000 A

Technical specifications

Main characteristics (as per IEC 61557-12)			
Rated voltage	Un	Phase-to-neutral	100...277 VAC ± 20 %
		Phase-to-phase	173...480 VAC ± 20 %
Frequency			50/60 Hz
Maximum current	I _{max}		200 A / 600 A / 1000 A / 2000 A
Maximum operating current			1.2 × I _{max}
Saturation current			2 × I _{max}
Maximum consumption			3 VA
Starting current	I _{st}		120 mA / 400 mA / 600 mA / 1.2 A
Basic current	I _b		30 A / 100 A / 150 A / 300 A
Additional characteristic			
Operating temperature			-25 °C to +70 °C
Maximum primary conductor temperature			105 °C ⁽²⁾
Storage temperature			-40 °C to +85 °C
Overvoltage category		As per IEC 61010-1	Cat. IV
Measuring category		As per IEC 61010-2-030	Cat. IV
Pollution degree			3
Altitude			Up to 2000 m without derating ⁽¹⁾
Degree of protection device			IP20 (IP40 front face) IK05
Radio-frequency communication			
ISM band 2.4 GHz			2.4 GHz to 2.4835 GHz
Channels		As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power		Equivalent (EIRP)	0 dBm
Maximum transmission time			< 5 ms
Channel occupancy		For 1 device	messages sent every 5 seconds
Characteristics of measuring functions			
Function	Symbol	Performance category as per IEC 61557-12 (PMD-II/DD/K70/1)	Device measuring range (200 A / 600 A / 1000 A / 2000 A)
		Class	
Total active power (Active power per phase)	P	1	29 W (10 W) to 240 kW / 96 W (32 W) to 720 kW / 144 W (48 W) to 1200 kW / 288 W (96 W) to 2400 kW
Total reactive power (Reactive power per phase)	Q _A	2	36 VAR (12 VAR) to 240 kVAR / 120 VAR (40 VAR) to 720 kVAR / 180 VAR (60 VAR) to 1200 kVAR / 360 VAR (120 VAR) to 2400 kVAR
Total apparent power (Apparent power per phase)	S _A	2	46 VA (15 VA) to 240 kVA / 154 VA (51 VA) to 720 kVA / 231 VA (77 VA) to 1200 kVA / 461 VA (154 VA) to 2400 kVA
Active Energy: per phase, total, partial, delivered and received	E _a	1	0 to 281.10 ⁹ kWh
Reactive energy: per phase, total, partial, delivered and received	E _{rA}	2	0 to 281.10 ⁹ kVARh
Apparent energy: per phase, total, partial	E _{apA}	2	0 to 281.10 ⁹ kVAh
Frequency	f	0.5	45 to 65 Hz
Phase current	I	1	120 mA to 400 A / 400 mA to 1200 A / 600 mA to 2000 A / 1.2 A to 4000 A
Neutral current	I _{NC}	2	
Voltages (Line to Line)	U	0.5	138 to 576 VAC
Power factor (per phase, total)	PF _A	1	-1 to 1

(1) Above 2000 m, please consult us.

(2) For higher value, please consult us.

PowerLogic™ PowerTag Energy Rope 200 A to 2000 A



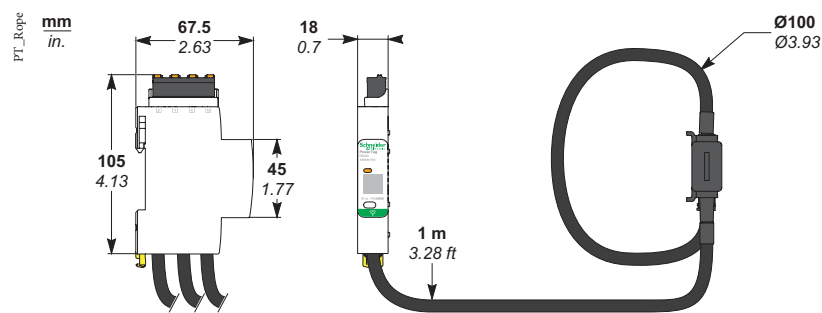
A9MEM159●

PowerTag Energy Rope 200 A to 2000 A Commercial reference numbers

Commercial reference number	Type	Description	Certification
A9MEM1590	R200 3P/3P+N	Rope 200 A 3P / 3P+N	DNV
A9MEM1591	R600 3P/3P+N	Rope 600 A 3P / 3P+N	DNV
A9MEM1592	R1000 3P/3P+N	Rope 1000 A 3P / 3P+N	DNV
A9MEM1593	R2000 3P/3P+N	Rope 2000 A 3P / 3P+N	DNV

Check the Concentrators /Gateways compatibility and the list of Schneider Electric compatible devices with the selection guide CA908058.

PowerTag Energy Rope 200 A to 2000 A dimensions



PowerTag Energy Rope 200 A to 2000 A weight

Type	Weight (g)
R200 3P/3P+N	360
R600 3P/3P+N	
R1000 3P/3P+N	
R2000 3P/3P+N	

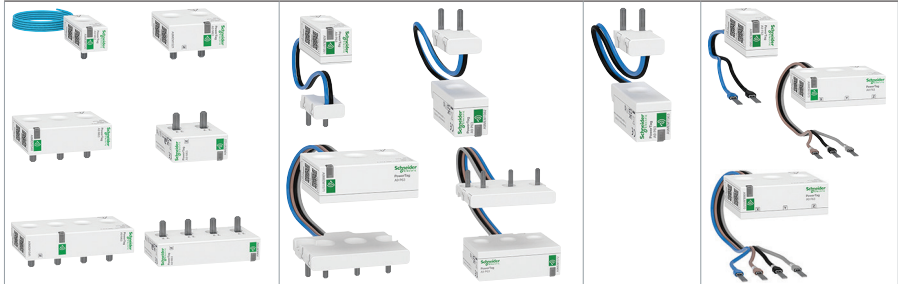
Contact your Schneider Electric representative for complete ordering information.
Please refer to PowerTag Energy Rope 200 A to 2000 A Installation Sheet for accurate and complete information on the installation of this product.

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A



Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
Acti9/Multi9					
Circuit breakers					
iC60/iK60/DT60	Top	✓	-	-	-
	Bottom	✓	-	-	-
iC60 (double terminal)	Top	-	-	-	✓
	Bottom	-	-	-	✓
iC40	Top	-	✓	-	-
	Bottom	-	✓	-	-
DT40/iDPN/C40	Top	-	✓	-	-
	Bottom	-	✓	-	-
C120 ≤ 63 A NG125 ≤ 63 A	Top	-	-	-	✓ (1)
	Bottom	-	-	-	✓ (1)
iC65N-K (China) iC65 (China)	Top	✓	-	-	-
	Bottom	✓	-	-	-
iDPN (China)	Top	-	✓	-	-
	Bottom	-	✓	-	-
iKQ	Top	NA	-	-	-
	Bottom	✓	-	-	-
N40	Top	-	✓	-	-
	Bottom	-	✓	-	-
Reflex iC60	Top	✓	-	-	-
	Bottom	✓	-	-	-
Reflex XC40	Top	✓	-	-	-
	Bottom	-	-	-	✓ (1)
Multi9 OEM (C60BP/C60BPR/ C60SP) 3P 480VAC only	Top	-	-	-	✓ A9MEM1575 (UL/IEC)
	Bottom	-	-	-	-
Multi9 OEM (C60N/H/L)	Top	✓	-	-	-
	Bottom	✓	-	-	-
C32/C45/C60/C65/K60/T60	Top	✓	-	-	-
	Bottom	✓	-	-	-

(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm²) for a more suitable connection to this product.

(2) Product usually associated with a comb busbar

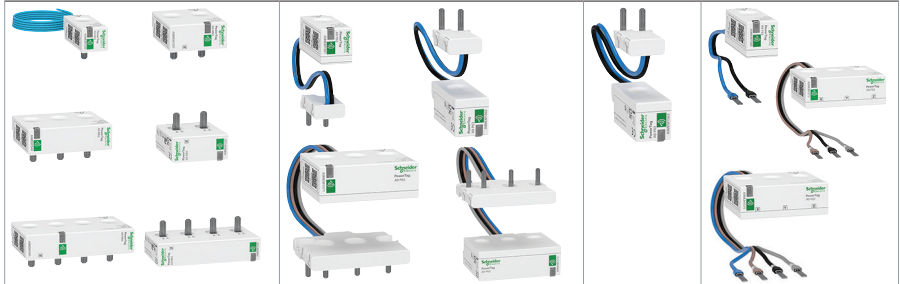
(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A



Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
Acti9/Multi9					
Circuit breakers equipped with Vigì module					
iC60/iC65/iC60/iC65N-K with Vigì module	Top	✓ (CB)	-	-	-
	Bottom	-	-	-	✓ (1) (Vigì)
iC40 with Vigì iCG40	Top CB	-	✓ (CB)	-	-
	Top (Vigì)	-	✗ (2) (Vigì 1P+N)	-	-
	Bottom (Vigì)	-	-	-	✓ (Vigì 3P+N)
iC40 with "outgoer" Vigì module	Top	-	✓ (CB)	-	-
	Bottom	-	-	-	✓ (Vigì)
DT40/DPN/C40 with "group feeder" Vigì module	Top CB	-	✓ (CB)	-	-
	Top Vigì	-	✓ (Vigì 1P+N)	-	✓ (Vigì 3P+N)
DT40/DPN/C40 with "outgoer" Vigì module	Top	-	✓ (CB)	-	-
	Bottom	-	-	-	✓ (Vigì)
DT60 with Vigì TG60	Top CB	✓ (CB) only A9MEM1541	-	-	-
	Top Vigì	-	-	-	✓ (1) (Vigì)
C120 ≤ 63 A NG125 ≤ 63 A with Vigì module	Top	-	-	-	✓ (1) (CB)
	Bottom	-	-	-	✓ (1) (Vigì)
Circuit breakers equipped with Arc fault detection unit					
iC60 with ARC unit	Top	✓ (CB)	-	-	-
	Bottom	-	-	-	✓ (add-on block)
iC40 with ARC unit	Top	-	✓ (CB)	-	-
	Bottom	-	-	-	✓ (add-on block)
Arc fault detection devices					
iC40N ARC / iCV40N VigìARC	Top	✓	-	-	-
	Bottom	✓	-	-	-

(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm²) for a more suitable connection to this product.

(2) Product usually associated with a comb busbar

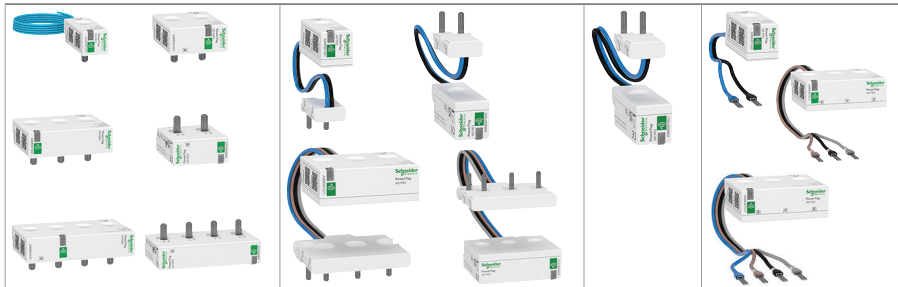
(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A



Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
Acti9/Multi9					
Residual current devices					
iCVm40	Top	-	✓	-	✓
	Bottom	-	✓	-	✓
iID/iID K	Top	✓	-	-	-
	Bottom	✓	-	-	-
iID (double terminal)	Top	-	-	-	✓
	Bottom	-	-	-	✓
iID40	Top	-	☑ (2) (1P+N)	-	☑ (2) (3P+N)
	Bottom	✓	-	-	-
iDPN Vigi "outgoer" 1P+N	Top	-	✓	-	-
	Bottom	-	✓	-	-
iC60H RCBO/iC60H2 RCBO/ IKQE RCBO	Top	NA (fishbone)	-	-	-
	Bottom	-	-	✓	-
iC60 RCBO	Top	✓	-	-	-
	Bottom	✓	-	-	-
iCV40 "outgoer" 1P+N	Top	-	✓	-	-
	Bottom	-	✓	-	-
iCV40 "outgoer" 3P+N	Top	-	✓	-	-
	Bottom	-	-	-	✓
DPN Vigi/DT40 Vigi/C40 Vigi "outgoer" 1P+N	Top	-	✓	-	-
	Bottom	-	✓	-	-
DPN Vigi/DT40 Vigi/C40 Vigi/ iDPN Vigi "outgoer" 3P+N	Top	-	✓	-	-
	Bottom	-	-	-	✓
DPN Vigi K	Top	-	-	-	✓ (1)
	Bottom	-	-	-	✓ (1)
N40 Vigi "outgoer"	Top	-	✓	-	-
	Bottom	-	✓	-	-
iDc/ITG40/C40	Top Left	-	✓	-	-
	Top Right	-	✓	-	-
DCP Vigi	Top	✓	-	-	-
	Bottom	✓	-	-	-
C60H RCBO (Multi9)	Top	NA (fishbone)	-	-	-
	Bottom	-	-	✓	-
ID ≤ 63 A/iD K biconnect/ ID Type B ≤ 63 A	Top	✓	-	-	-
	Bottom	✓	-	-	-
RED/REDS/REDTest	Top	-	-	-	✓ (1)
	Bottom	-	-	-	✓ (1)

(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm²) for a more suitable connection to this product.

(2) Product usually associated with a comb busbar

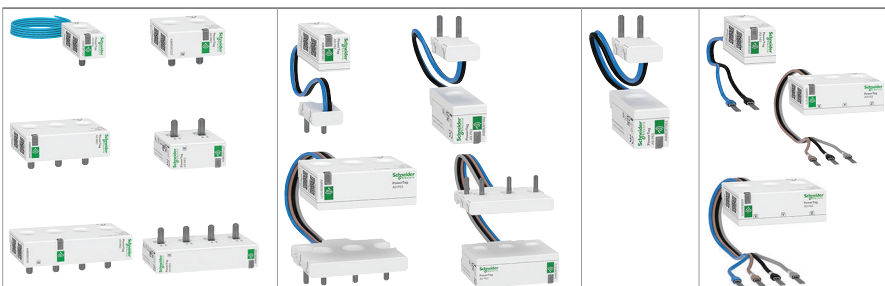
(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A



Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
Acti9/Multi9					
Switches					
iSW ≤ 63 A	Top	✓	-	-	-
	Bottom	✓	-	-	-
iSW-NA ≤ 63 A	Top	✓	-	-	-
	Bottom	✓	-	-	-
iSW 20/32 A	Top	-	-	-	✓
	Bottom	-	-	-	✓
i-NA ≤ 63 A	Top	✓	-	-	-
	Bottom	✓	-	-	-
NG125 NA ≤ 63 A	Top	-	-	-	✓ (1)
	Bottom	-	-	-	✓ (1)
Fuse disconnectors					
STI	Top	-	-	-	✓
	Bottom	-	-	-	✓
SBI 14x51/SBI 22x58 ≤ 63 A	Top	-	-	-	✓ (1)
	Bottom	-	-	-	✓ (1)
D01/D02	Top	-	-	-	✓ (1)
	Bottom	-	-	-	✓ (1)

(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm²) for a more suitable connection to this product.

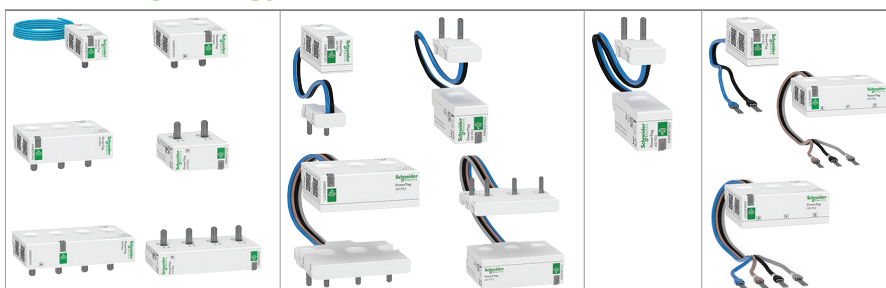
(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 63 A



Products (AC network)	Mounting position	A9 M63	A9 P63	A9 P63 RCBO	A9 F63
TeSys					
Motor circuit breakers					
GV2	Top	-	-	-	✓ (1) (2)
	Bottom	-	-	-	✓ (1) (2)
GV3 ≤ 63 A	Top	-	-	-	✓ (1) (2)
	Bottom	-	-	-	✓ (1) (2)
Contactors					
TeSys D ≤ 63 A	Top	-	-	-	✓ Upstream only (1)
	Bottom	-	-	-	-
TeSys K	Top	-	-	-	✓ Upstream only (1)
	Bottom	-	-	-	-
Motor starter					
TeSys U	Top	-	-	-	✓ Upstream only (1)
	Bottom	-	-	-	-

(1) You may need to change the voltage measurement cable terminals of the PowerTag Energy F63 by other cable ends (wire AWG22/0.33 mm²) for a more suitable connection to this product.

(2) PowerTag Energy sensors withstand motor starting in-rush currents. Environmental mission profile : Buildings as per 60721-3-3.

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 160 A



Products (AC network)		Mounting position	F160 3P / 3P+N
Acti9			
Circuit breakers			
C120 (with or without Vigi module)	3P / 3P+N	Top / Bottom	☑
NG125 (with or without Vigi module)	3P / 3P+N	Top / Bottom	☑
Residual current devices			
iID > 63 A	3P+N	Top / Bottom	☑
RCCB-ID 125 A	3P+N	Top / Bottom	☑
Fuse disconnectors			
SBI > 63 A	3P / 3P+N	Top / Bottom	☑
Switches			
NG125 NA	3P / 3P+N	Top / Bottom	☑
iSW > 63 A	3P / 3P+N	Top / Bottom	☑
iSW NA > 63 A	3P+N	Top / Bottom	☑
ComPact			
Circuit breakers			
NSXm	3P / 3P+N	Top / Bottom	☑ (5)
Switches			
NSXm NA	3P / 3P+N	Top / Bottom	☑ (5)
INS 80/100/125/160	3P / 3P+N	Top / Bottom	☑
PowerPact			
Circuit breakers			
B	3P / 3P+N	Top / Bottom	☑ (6)
TeSys			
Motor circuit breakers			
GV3 > 65 A	3P	Top / Bottom	☑
GV4	3P	Top / Bottom	☑
Contactors			
63 A < TeSys D ≤ 160 A	3P / 3P+N	Top	☑ Upstream only
TeSys F ≤ 160 A	3P / 3P+N	Top	☑ Upstream only

(5) It is advised to use EverLink connectors with control wire terminal (LV426970 for 3P / LV426971 for 4P)

(6) It is advised to use EverLink connectors with control wire terminal (LV426974 for 3P / LV426975 for 4P)

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy 250 A

PowerTag Energy 630 A



Products (AC network)	Mounting position		M250 3P	M250 3P+N	M630 3P	M630 3P+N
ComPact						
Circuit breakers						
NSX100/160/250 B/F/N/H/S/L/R/NA Fixed	3P	Bottom	✔	-	-	-
	4P	Bottom	-	✔	-	-
NSX400/630 F/N/H/S/L/R/NA Fixed	3P	Bottom	-	-	✔	-
	4P	Bottom	-	-	-	✔
NSX100/160/250 B/F/N/H/S/L/R/NA Plug-In (mounted on the base)	3P	Top / Bottom	✔	-	-	-
	4P	Top / Bottom	-	✔ (3)	-	-
NSX400/630 F/N/H/S/L/R/NA Plug-In (mounted on the base)	3P	Top / Bottom	-	-	✔ (4)	-
	4P	Top / Bottom	-	-	-	✔ (3) (4)
NS100/160/250 N/SX/H/L/NA Fixed	3P	Bottom	✔	-	-	-
	4P	Bottom	-	✔	-	-
NS400/630 N/H/L/NA Fixed	3P	Bottom	-	-	✔	-
	4P	Bottom	-	-	-	✔
NS100/160/250 N/SX/H/L/NA Plug-In (mounted on the base)	3P	Top / Bottom	✔	-	-	-
	4P	Top / Bottom	-	✔ (3)	-	-
NS400/630 N/H/L/NA Plug-In (mounted on the base)	3P	Top / Bottom	-	-	✔ (4)	-
	4P	Top / Bottom	-	-	-	✔ (3) (4)
Circuit breakers equipped with Vigi block						
NSX100/160/250 B/F/N/H/S/L/R/NA Fixed	3P	Bottom	✔	-	-	-
	4P	Bottom	-	✔	-	-
NSX400/630 F/N/H/S/L/R/NA Fixed	3P	Bottom	-	-	✔	-
	4P	Bottom	-	-	-	✔
NSX100/160/250 B/F/N/H/S/L/R/NA Plug-In (mounted on the base)	3P	Top	✔	-	-	-
	3P	Top	-	-	✔ (4)	-
Switches						
INS250/INV - 100/160/200/250	3P	Bottom	-	✔	-	-
	4P	Top / Bottom	-	✔ (3)	-	-
INS/INV - 320/400/500/630	3P	Bottom	-	-	-	✔
	4P	Top / Bottom	-	-	-	✔ (3)
TeSys						
Motor circuit breakers						
GV5, GV7	3P	Bottom	✔	-	-	-
GV6	3P	Bottom	-	-	✔	-
EasyPact						
Circuit breakers						
CVS100-250	3P	Bottom	✔	-	-	-
	4P	Bottom	-	✔	-	-
CVS400-630	3P	Bottom	-	-	✔	-
	4P	Bottom	-	-	-	✔

(3) neutral on the right when mounted on top side

(4) when plate mounted, need to add a 4 mm intercalary under the PowerTag module (see ComPact NSX catalog)

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for product compatibility*

(Compatibility for terminal not equipped with comb busbar)

PowerTag Energy Rope



Products (AC network)	Mounting position	R200 3P / 3P+N	R600 3P / 3P+N	R1000 3P / 3P+N	R2000 3P / 3P+N
ComPact					
Circuit breakers					
NS 630b	3P / 3P+N	Top / Bottom	-	✓	-
NS 800/1000	3P / 3P+N	Top / Bottom	-	-	✓
NS 1250/1600/1600b/2000	3P / 3P+N	Top / Bottom	-	-	✓
Switches					
INS/INV 630b	3P / 3P+N	Top / Bottom	-	✓	-
INS/INV 800/1000	3P / 3P+N	Top / Bottom	-	-	✓
INS/INV 1250/1600/2000	3P / 3P+N	Top / Bottom	-	-	✓
NS 630b NA	3P / 3P+N	Top / Bottom	-	✓	-
NS 800/1000 NA	3P / 3P+N	Top / Bottom	-	-	✓
NS 1250/1600/1600b/2000 NA	3P / 3P+N	Top / Bottom	-	-	✓
MasterPact					
Circuit breakers					
NT 06	3P / 3P+N	Top / Bottom	-	✓	-
NT 08/10	3P / 3P+N	Top / Bottom	-	-	✓
NT 12/16	3P / 3P+N	Top / Bottom	-	-	✓
NW 08/10	3P / 3P+N	Top / Bottom	-	-	✓
NW 12/16/20	3P / 3P+N	Top / Bottom	-	-	✓
Switches					
NT 06 HA	3P / 3P+N	Top / Bottom	-	✓	-
NT 08/10 HA	3P / 3P+N	Top / Bottom	-	-	✓
NT 12/16 HA	3P / 3P+N	Top / Bottom	-	-	✓
NW 08/10 NA/HA/HF	3P / 3P+N	Top / Bottom	-	-	✓
NW 12/16/20 NA/HA/HF	3P / 3P+N	Top / Bottom	-	-	✓
MTZ1 06 HA	3P / 3P+N	Top / Bottom	-	✓	-
MTZ1 08/10 HA	3P / 3P+N	Top / Bottom	-	-	✓
MTZ1 12/16 HA	3P / 3P+N	Top / Bottom	-	-	✓
MTZ2 08/10 NA/HA/HA10	3P / 3P+N	Top / Bottom	-	-	✓
MTZ2 12/16/20 NA/HA/HA10	3P / 3P+N	Top / Bottom	-	-	✓
TeSys					
Contactors					
TeSys D > 160 A	3P / 3P+N	Top	✓ Upstream only	-	-
160 A < TeSys F ≤ 2000 A	3P / 3P+N	Top	✓ Upstream only	✓ Upstream only	✓ Upstream only
Others					
Circuit breakers / Switches / Motor circuit breakers					
All products below 200 A	3P / 3P+N	Top / Bottom	✓	-	-
All products between 200 A and 600 A	3P / 3P+N	Top / Bottom	-	✓	-
All products between 600 A and 1000 A	3P / 3P+N	Top / Bottom	-	-	✓
All products between 1000 A and 2000 A	3P / 3P+N	Top / Bottom	-	-	✓

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for concentrators / gateways compatibility*

Concentrators / gateways

	EcoStruxure™ Panel Server Entry, Universal and Advanced PAS400, PAS600/600L, PAS800						
PowerTag Energy M63							
	A9MEM1520	✓	-		✓		✓
	A9MEM1521	✓	-		✓		✓
	A9MEM1522	✓	-		✓		✓
	A9MEM1540	✓	-		✓		✓
	A9MEM1541	✓	-		✓		✓
	A9MEM1542	✓	-		✓		✓
	A9MEM1543	✓	-		-		✓
PowerTag Energy M63 Resi9							
	R9M20	-	-		-		-
	R9M21	-	-		-		-
	R9M22	-	-		-		-
	R9M40	-	-		-		-
	R9M41	-	-		-		-
	R9M42	-	-		-		-
	R9M43	-	-		-		-
PowerTag Energy P63							
	A9MEM1561	✓	-		✓		✓
	A9MEM1562	✓	-		✓		✓
	A9MEM1563	✓	-		✓		✓
	A9MEM1571	✓	-		✓		✓
	A9MEM1572	✓	-		✓		✓
PowerTag Energy F63							
	A9MEM1560	✓	✓		✓		✓
	A9MEM1564	✓	-		-		✓
	A9MEM1570	✓	✓		✓		✓
	A9MEM1573	✓	✓		-		✓
	A9MEM1574	✓	-		-		✓
	A9MEM1575	✓ (1)	-		-		-
PowerTag Energy F63 Resi9							
	R9M60	-	-		-		-
	R9M70	-	-		-		-

(1) From firmware release 2.4

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for concentrators / gateways compatibility*

Concentrators / gateways

			
		Wiser Home Hub CCT501801	Wiser Hub CCT501901
PowerTag Energy M63			
	A9MEM1520	✓	-
	A9MEM1521	✓	-
	A9MEM1522	✓	-
	A9MEM1540	✓	-
	A9MEM1541	✓	-
	A9MEM1542	✓	-
	A9MEM1543	✓	-
PowerTag Energy M63 Resi9			
	R9M20	✓	✓
	R9M21	✓	✓
	R9M22	✓	✓
	R9M40	✓	✓
	R9M41	✓	✓
	R9M42	✓	✓
	R9M43	✓	✓
PowerTag Energy P63			
	A9MEM1561	✓	-
	A9MEM1562	✓	-
	A9MEM1563	✓	-
	A9MEM1571	✓	-
	A9MEM1572	✓	-
PowerTag Energy F63			
	A9MEM1560	✓	✓
	A9MEM1564	-	-
	A9MEM1570	✓	✓
	A9MEM1573	-	-
	A9MEM1574	-	-
	A9MEM1575	-	-
PowerTag Energy F63 Resi9			
	R9M60	✓	✓
	R9M70	✓	✓

(*) Refer to the product catalog for technical characteristics

PowerLogic™ PowerTag Energy

Selection guide for concentrators / gateways compatibility*

Concentrators / gateways

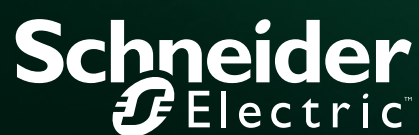
					
		EcoStruxure™ Panel Server Entry, Universal and Advanced PAS400, PAS600/600L, PAS800●	Harmony Hub ZBRN1 ZBRN2 ZBRN32	Smartlink SI B A9XMZA08 Smartlink SI D A9XMWA20	PowerLogic HU250 EMS59000 + EMS59156 +EMS59155 (4G optional)
PowerTag Energy F160					
	A9MEM1580	✓	✓	-	-
PowerTag Energy M250-M630					
	LV434020	✓	✓	✓	-
	LV434021	✓	✓	✓	-
	LV434022	✓	✓	✓	-
	LV434023	✓	✓	✓	-
PowerTag Energy R200-R600-R1000-R2000					
	A9MEM1590	✓	✓	-	✓
	A9MEM1591	✓	✓	-	✓
	A9MEM1592	✓	✓	-	✓
	A9MEM1593	✓	✓	-	✓

PowerLogic™ PowerTag Energy

Selection guide for concentrators / gateways compatibility*

Concentrators / gateways

				
		Wiser Home Hub CCT501801	Wiser Hub CCT501901	PowerTag Link A9XMWD20 PowerTag Link HD A9XMWD100
PowerTag Energy F160				
	A9MEM1580	-	-	✓
PowerTag Energy M250-M630				
	LV434020	-	-	✓
	LV434021	-	-	✓
	LV434022	-	-	✓
	LV434023	-	-	✓
PowerTag Energy R200-R600-R1000-R2000				
	A9MEM1590	-	-	✓
	A9MEM1591	-	-	✓
	A9MEM1592	-	-	✓
	A9MEM1593	-	-	✓



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