



Acti9 MSC Chassis

Catalogue 2022

se.com/au

Life Is On

Schneider
Electric

MSC chassis

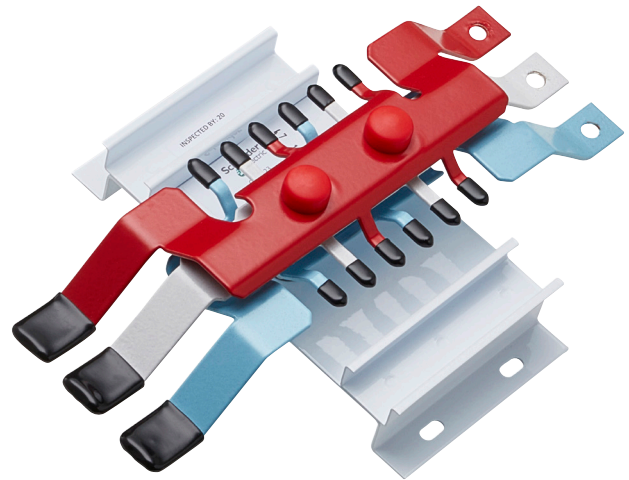
Functions and characteristics

Function

The MSC chassis system allows for the fitting of all Acti 9 circuit protection. Each busbar is colour coded of red, white, and blue for phase identification. Acti 9 captive padlocking device (SAUA9PLDF) is compatible with the MSC chassis.

Technical characteristics

- Available in 250 and 400 A versions
- Suits MCBs up to 125 A
- Continuous, cold formed bar construction
- Highly conductive, 99,95% pure copper (alloy 110)
- Top and bottom connection
- Easily removable tee off boots
- Direct connection to:
 - INS250 load break switches
 - NSX250 MCCBs
- Connection kit 400CK2 to:
 - INS320, INS400 Switch disconnectors
 - NSX400 MCCBs



Compliance with AS/NZS 61439

Design Verification Guidelines are available to assist assembly manufacturers to carry out their design verification for the final completed assembly in accordance with AS/NZS 61439 series when using Schneider Electric's chassis and low voltage devices.

Technical data

Main characteristics

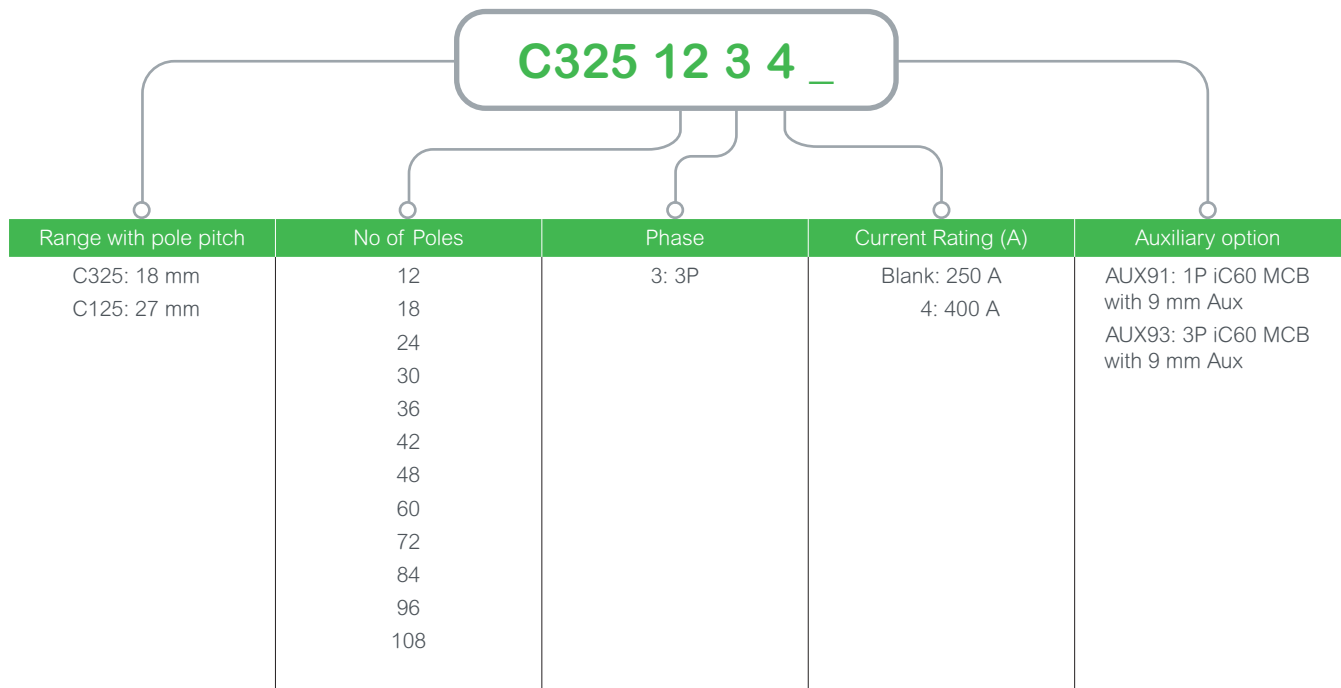
| | |
|---|--|
| Rated voltage (Ue) | 415 V AC, 50 Hz |
| Rated insulation voltage (Ui) | 500 V |
| Rated impulse withstand voltage (Uimp) | 6 kV |
| Rated current of the assembly (InA) Max full assembly achieved based on AS/NZS 61439 Verification designs ⁽¹⁾ | up to 250 A with INS250 Switch disconnector up to 330 A with INS400 Switch disconnector |
| Rated short time withstand current (Icw) | 25 kA @ 0.1 s for 250 A MSC 20 kA @ 0.5 s for 400 A MSC |
| Form of separation | 2bi and 4aih |
| Chassis Power Loss | Power or watts losses are dependent on the chassis size, length and current loading. |

(1) Based on AS/NZS 61439 Design Verification guidelines:

- [PZC-1221 MSC250 Guidelines_D](#)
- [PZC-1222 MSC400 Guidelines_D](#)

Naming conventions for Chassis

Standard chassis 3 Phase

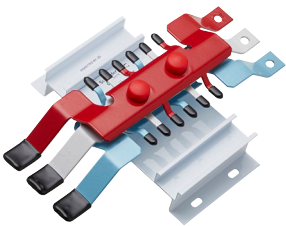


Note: C3DCXXX 2 Phase or DC chassis are not included in the naming convention table

References and dimensions

MSC chassis, 3 Ph, Dual Feed, 18 mm for iC60 MCBs and RCBOs

| 18 mm | Length (mm) | Reference 250 A | Reference 400 A |
|-----------|-------------|-----------------|-----------------|
| 12 poles | 110 | C325123 | C3251234 |
| 18 poles | 164 | C325183 | C3251834 |
| 24 poles | 218 | C325243 | C3252434 |
| 30 poles | 272 | C325303 | C3253034 |
| 36 poles | 326 | C325363 | C3253634 |
| 42 poles | 380 | C325423 | C3254234 |
| 48 poles | 434 | C325483 | C3254834 |
| 60 poles | 542 | C325603 | C3256034 |
| 72 poles | 650 | C325723 | C3257234 |
| 84 poles | 758 | C325843 | C3258434 |
| 96 poles | 866 | C325963 | C3259634 |
| 108 poles | 974 | C3251083 | C32510834 |



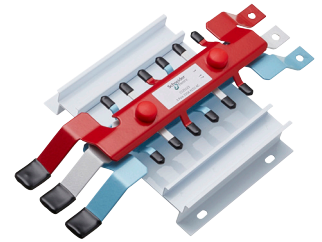
C325123

| Compatible devices for outgoing poles | | |
|---------------------------------------|-----------|-----------------------|
| for MCB | for RCBO | for Add-on Vigi block |
| 1P, 2P, 3P iC60 | 1P+N iC60 | 1P+N, 3P+N iC60 |



MSC chassis, 3 Ph, Dual Feed, 27 mm for iC120 MCB

| 27 mm | Length (mm) | Reference 250 A | Reference 400 A |
|----------|-------------|-----------------|-----------------|
| 12 poles | 164 | C125123 | C1251234 |
| 18 poles | 245 | C125183 | C1251834 |
| 24 poles | 326 | C125243 | C1252434 |
| 30 poles | 407 | C125303 | C1253034 |
| 36 poles | 488 | C125363 | C1253634 |
| 42 poles | 569 | C125423 | C1254234 |
| 48 poles | 650 | C125483 | C1254834 |
| 60 poles | 812 | C125603 | C1256034 |
| 72 poles | 974 | C125723 | C1257234 |



C125123

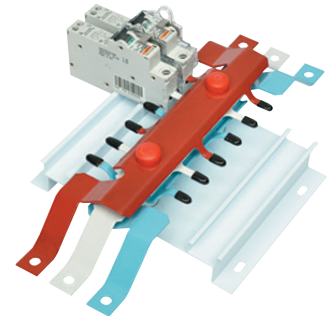
Compatible devices for outgoing poles

| for C120 MCB | for RCBO | for Add-on Vigi block |
|--------------|----------|-----------------------|
| 1P, 2P, 3P | | |



MSC chassis, 3 Ph, Dual Feed, for iC60 MCB & RCBO with 9 mm Auxiliary

| Pole capacity | Length (mm) | 1P iC60 MCB with 9 mm Aux | Length (mm) | 3P iC60 MCB with 9 mm Aux |
|---------------|-------------|---------------------------|-------------|---------------------------|
| 12 poles | 164 | C325123AUX91 | 128 | C325123AUX93 |
| 18 poles | 245 | C325183AUX91 | 191 | C325183AUX93 |
| 24 poles | 326 | C325243AUX91 | 254 | C325243AUX93 |
| 30 poles | 407 | C325303AUX91* | 317 | C325303AUX93 |
| 36 poles | 488 | C325363AUX91* | 380 | C325363AUX93 |
| 42 poles | 569 | C325423AUX91 | 443 | C325423AUX93 |
| 48 poles | 650 | C325483AUX91 | 506 | C325483AUX93 |
| 60 poles | 812 | C325603AUX91 | 632 | C325603AUX93 |
| 72 poles | 974 | C325723AUX91 | 758 | C325723AUX93 |



C325123AUX91

Compatible devices for outgoing poles

| for MCB | for RCBO | for 9 mm Auxiliary | |
|-------------|-----------|--------------------|--------------------|
| 1P, 3P iC60 | 1P+N iC60 | iOF, iSD, iOF+SD24 | Right/Left Padlock |

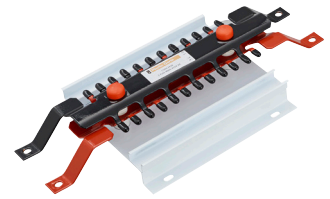


Note:

*This Product is not available online. Chat with us for order.

MSC chassis, 2 Ph, Dual Feed for iC60

| Description | Pole capacity 18 mm | Length (mm) | Reference 250 A | Reference 400 A |
|-----------------------|---------------------|-------------|-----------------|-----------------|
| 2-pole (black/red) | 12 | 110 | | C3DC1234 |
| | 16 | 146 | | C3DC1634* |
| | 20 | 182 | | C3DC2034* |
| | 24 | 218 | C3DC243 | C3DC2434* |
| | 32 | 290 | | C3DC3234* |
| | 36 | 326 | C3DC363 | C3DC3634* |
| | 40 | 362 | C3DC403 | C3DC4034 |
| | 48 | 434 | C3DC483 | C3DC4834* |
| | 60 | 542 | | C3DC6034 |
| 72 | 650 | | C3DC7234* | |



C3DC1234

Compatible devices for outgoing poles

| for MCB | for RCBO | for Add-on Vigi block |
|-----------------------|----------|-----------------------|
| 2P iC60, 2P iC60H-DC* | 2P iC60 | 1P+N iC60 |



*Be mindful of the polarity of C60H-DC MCBs

Note:

*This Product is not available online. Chat with us for order.

Naming conventions for Chassis

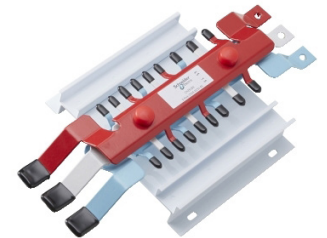
Hybrid & Phase Neutral Chassis

CH25 12 3 4

| Range with pole pitch | No of Poles | Phase | Current Rating (A) |
|--|-------------|-------------------------|--------------------------|
| Hybrid CH25: 18/27 mm Phase Neutral C325: 18 mm CD25: 9 mm | 12 | 3: 3P | Blank: 250 A 4: 400 A |
| | 18 | 41: 3*(1Ph+N) on 18 mm | |
| | 24 | 43: 3*(3Ph+N) on 18 mm | |
| | 30 | 4N9: 3*(1Ph+N) on 9 mm | |
| | 36 | | |
| | 42 | | |
| | 48 | | |
| | 60 | | |
| | 72 | | |
| | 84 | | |
| | 96 | | |

MSC chassis, 3 Ph, Dual Feed, 18/27 hybrid — for iC60 MCB and RCBOs or C120 MCB

| Pole capacity | | | Length (mm) | Reference 250 A | Reference 400 A |
|---------------|-------|-------|-------------|-----------------|-----------------|
| 27 mm | 18 mm | Total | | | |
| 6 | 6 | 12 | 137 | CH25123 | CH251234 |
| 6 | 12 | 18 | 191 | CH25183 | CH251834 |
| 6 | 18 | 24 | 245 | CH25243 | CH252434 |
| 6 | 24 | 30 | 299 | CH25303 | CH253034 |
| 6 | 30 | 36 | 353 | CH25363 | CH253634 |
| 12 | 30 | 42 | 434 | CH25423 | CH254234 |
| 12 | 36 | 48 | 488 | CH25483 | CH254834 |
| 12 | 48 | 60 | 596 | CH25603 | CH256034 |
| 12 | 60 | 72 | 704 | | CH257234 |
| 12 | 72 | 84 | 812 | | CH258434 |



CH25123

| Compatible devices for outgoing poles | | | |
|---------------------------------------|--|-----------|-----------------------|
| for MCB | | for RCBO | for Add-on Vigi block |
| 1P, 2P, 3P iC60 | | 1P+N iC60 | 1P+N, 3P+N iC60 |



MSC chassis, 3 Ph+N, Dual Feed, for iC60

| Description | Pole capacity 18 mm | Length (mm) | Reference 250 A | Reference 400 A |
|--------------------------------------|------------------------|-------------|-----------------|-----------------|
| 3 phase and neutral (N.R.W.B.) | 16 | 146 | C3251643 | |
| | 24 | 218 | C3252443 | C32524434 |
| | 32 | 290 | C3253243 | |
| | 40 | 362 | C3254043 | |
| | 48 | 434 | C3254843 | C32548434 |
| | 72 | 650 | C3257243 | |

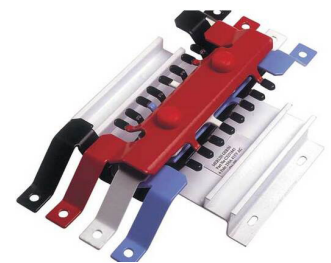
Compatible devices for outgoing poles

| for MCB | for RCBO | for Add-on Vigi block |
|---------|----------|-----------------------|
| 4P iC60 | | 3P+N iC60 |



MSC chassis, 3*(1 Ph+N), Dual Feed, for iC60

| Description | Pole capacity 18 mm | Length (mm) | Reference 250 A | Reference 400 A |
|--|------------------------|-------------|-----------------|-----------------|
| 3 phase and neutral (N.R.N.W.N.B.) | 16 | 146 | C3251641 | C32516414* |
| | 24 | 218 | C3252441 | C32524414* |
| | 32 | 290 | C3253241 | C32532414* |
| | 40 | 362 | C3254041 | C32540414* |
| | 48 | 434 | C3254841 | C32548414* |
| | 56 | 506 | C3255641 | C32556414* |
| | 64 | 578 | C3256441 | C32564414* |
| | 72 | 650 | C3257241 | |



C3251641

Compatible devices for outgoing poles

| for MCB | for RCBO | for Add-on Vigi block |
|---------|----------|-----------------------|
| 2P iC60 | 2P iC60 | 1P+N iC60 |

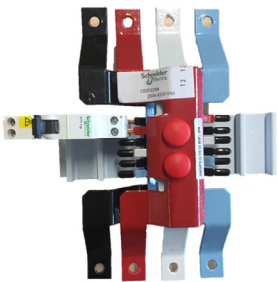


Note:

*This Product is not available online. Chat with us for order.

MSC chassis, 3*(1Ph+N), Dual Feed, for iDPN Vigi Or iSPN Vigi RCBOs & iDPN VigiArc AFDDs

| Description | Pole capacity 9 mm | Qty iSPNs | Qty iDPNs | Length (mm) | Reference 250 A |
|---------------------------------------|-----------------------|-----------|-----------|-------------|-----------------|
| 3 phase and neutral (N.R.N.W.N.B.) | 12 poles | 6 | 2 | 110 | CD25124N9 |
| | 20 poles | 10 | 4 | 182 | CD25204N9 |
| | 24 poles | 12 | 6 | 218 | CD25244N9 |
| | 32 poles | 16 | 8 | 290 | CD25324N9 |
| | 36 poles | 18 | 9 | 326 | CD25364N9 |
| | 48 poles | 24 | 12 | 434 | CD25484N9 |
| | 72 poles | 36 | 18 | 650 | CD25724N9 |



CD25124N9

| Compatible devices for outgoing poles | | | |
|---------------------------------------|---------------------------|-------------------|-----------------------|
| for MCB | for RCBO | for AFDD | for Add-on Vigi block |
| | 1P+N iSPN, 1P+N iDPN Vigi | 1P+N iDPN VigiArc | |



Accessories

| Type | Reference | Description |
|--------------------|------------|--|
| Connection kit | 400CK2 | Chassis Connection kit for SAU400 chassis with INS400/NSX400 |
| Captive padlocking | SAUA9PLDF | iC60 Padlocking device Front |
| | SAUA9PLDTC | iC60 Padlocking device Terminal Cover |
| | SAUA9PLDF | iC60 Padlocking device Pole Filler |
| | A9A26381 | Acti9 Padlocking device right |
| | A9A26380 | Acti9 Padlocking device left |



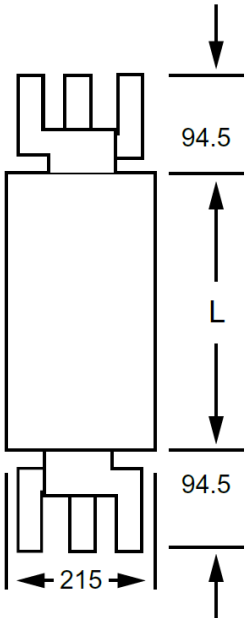
SAUA9PLDF



400CK2



A9A26380



Generic dimension for the encapsulated chassis range

Chassis Incomer devices with connection kit *

| | | MSC 250 | | MSC 400 |
|---------|-----|---|---|---|
| | | Standard chassis | Phase Neutral | Standard chassis |
| | | 3P | 4P or 3P+N | 3P |
| Compact | NSX |  |  |  |
| | INS |  |  |   |
| | | Up to 250 A direct connection | | Upto 400 A with chassis connection kit ref 400CK2* |

*For chassis with incomers not listed in table, contact customer care

Use the following chart to easily upgrade between the MSC chassis system and the new encapsulated chassis

Cross references MSC — Encapsulated chassis

| MSC chassis part numbers | Direct equivalent encapsulated chassis |
|--------------------------|--|
| C125123 | SAU25012273DF |
| C125183 | SAU25018273DF |
| C125243 | SAU25024273DF |
| C125303 | SAU25030273DF |
| C125363 | SAU25036273DF |
| C125423 | SAU25042273DF |
| C125483 | SAU25048273DF |
| C125603 | SAU25060273DF |
| C125723 | SAU25072273DF |
| C325123 | SAU25012183DF |
| C325183 | SAU25018183DF |
| C325243 | SAU25024183DF |
| C325303 | SAU25030183DF |
| C325363 | SAU25036183DF |
| C325423 | SAU25042183DF |
| C325483 | SAU25048183DF |
| C325603 | SAU25060183DF |
| C325723 | SAU25072183DF |
| C325843 | SAU25084183DF |
| C325963 | SAU25096183DF |
| C3251083 | SAU250108183DF |
| C3250841 | SAU2500841NDF |
| C3251641 | SAU2501641NDF |
| C3252441 | SAU2502441NDF |
| C3253241 | SAU2503241NDF |
| C3254041 | SAU2504041NDF |
| C3254841 | SAU2504841NDF |
| C3255641 | SAU2505641NDF |
| C3256441 | SAU2506441NDF |
| C3257241 | SAU2507241NDF |
| C3250843 | SAU2500843NDF |
| C3251643 | SAU2501643NDF |
| C3252443 | SAU2502443NDF |
| C3253243 | SAU2503243NDF |
| C3254043 | SAU2504043NDF |
| C3254843 | SAU2504843NDF |
| C3255643 | SAU2505643NDF |
| C3256443 | SAU2506443NDF |
| C3257243 | SAU2507243NDF |

Cross references MSC — Encapsulated chassis

| MSC chassis part numbers | Direct equivalent encapsulated chassis (dual feed are not stocked) |
|--------------------------|---|
| C3DC123 | SAU3DC12182DF |
| C3DC163 | SAU3DC16182DF |
| C3DC203 | SAU3DC20182DF |
| C3DC243 | SAU3DC24182DF |
| C3DC323 | SAU3DC32182DF |
| C3DC363 | SAU3DC36182DF |
| C3DC403 | SAU3DC40182DF |
| C3DC483 | SAU3DC48182DF |
| C3DC603 | SAU3DC60182DF |
| C3DC723 | SAU3DC72182DF |
| CH25123 | SAU250H123DF |
| CH25183 | SAU250H183DF |
| CH25243 | SAU250H243DF |
| CH25303 | SAU250H303DF |
| CH25363 | SAU250H363DF |
| CH25423 | SAU250H423DF |
| CH25483 | SAU250H483DF |
| CH25603 | SAU250H603DF |
| CH25723 | SAU250H723DF |
| CH25843 | SAU250H843DF |
| CH25963 | SAU250H963DF |
| C1251234 | SAU40012273DF |
| C1251834 | SAU40018273DF |
| C1252434 | SAU40024273DF |
| C1253634 | SAU40036273DF |
| C1254834 | SAU40048273DF |
| C1256034 | SAU40060273DF |
| C1257234 | SAU40072273DF |
| C3251234 | SAU40012183DF |
| C3251834 | SAU40018183DF |
| C3252434 | SAU40024183DF |
| C3253634 | SAU40036183DF |
| C3254834 | SAU40048183DF |
| C3256034 | SAU40060183DF |
| C3257234 | SAU40072183DF |
| C3258434 | SAU40084183DF |
| C3259634 | SAU40096183DF |
| CH251834 | SAU400H183DF |
| CH253034 | SAU400H303DF |
| CH254234 | SAU400H423DF |
| CH257234 | SAU400H723DF |
| CH258434 | SAU400H843DF |

Cross references MSC (Non Standard) — Encapsulated chassis

| MSC chassis part numbers | Direct equivalent encapsulated chassis (dual feed are not stocked) |
|--------------------------|---|
| C125123TF | SAU25012273 |
| C125363TF | SAU25036273 |
| C125423TF | SAU25042273 |
| C125603TF | SAU25060273 |
| C325123TF | SAU25012183 |
| C325303TF | SAU25030183 |
| C325483TF | SAU25048183 |
| C325603TF | SAU25060183 |
| C3251083TF | SAU250108183 |
| CH25123TF | SAU250H123 |
| CH25183TF | SAU250H183 |
| CH25243TF | SAU250H243 |
| CH25303TF | SAU250H303 |
| CH25363TF | SAU250H363 |
| CH25423TF | SAU250H423 |
| CH25483TF | SAU250H483 |
| CH25603TF | SAU250H603 |
| CH25723TF | SAU250H723 |
| CH25843TF | SAU250H843 |
| CH25963TF | SAU250H963 |
| C3250841TF | SAU2500841N |
| C3251641TF | SAU2501641N |
| C3252441TF | SAU2502441N |
| C3253241TF | SAU2503241N |
| C3254041TF | SAU2504041N |
| C3254841TF | SAU2504841N |
| C3255641TF | SAU2505641N |
| C3256441TF | SAU2506441N |
| C3257241TF | SAU2507241N |
| C3250843TF | SAU2500843N |
| C3251643TF | SAU2501643N |
| C3252443TF | SAU2502443N |
| C3253243TF | SAU2503243N |
| C3254043TF | SAU2504043N |
| C3254843TF | SAU2504843N |
| C3255643TF | SAU2505643N |
| C3256443TF | SAU2506443N |
| C3257243TF | SAU2507243N |

Substitution table for MSC 9 mm Chassis

| | |
|----------|-----------|
| CD25124N | CD25124N9 |
| CD25204N | CD25204N9 |
| CD25244N | CD25244N9 |
| CD25324N | CD25324N9 |
| CD25364N | CD25364N9 |
| CD25484N | CD25484N9 |
| CD25724N | CD25724N9 |

Life Is On | **Schneider**
Electric

Schneider Electric (Australia) Pty. Ltd.

Head Office
2 Banfield Road, Macquairie Park, NSW, 2113
New South Wales
Phone: 13 73 28 (13SEAU)

Customer Service

telephone: 13 73 28 (13SEAU)
e-mail: customer care.au@se.com
website: www.se.com/au

05-2022

© 2022 - Schneider Electric. All Rights Reserved.
All trademarks are owned by Schneider Electric Industries SAS or its affiliated companies.

This document has been
printed on recycled paper

