



# Acti9 MSC Chassis

Catalogue 2022

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**Schneider**  
Electric

# MSC chassis

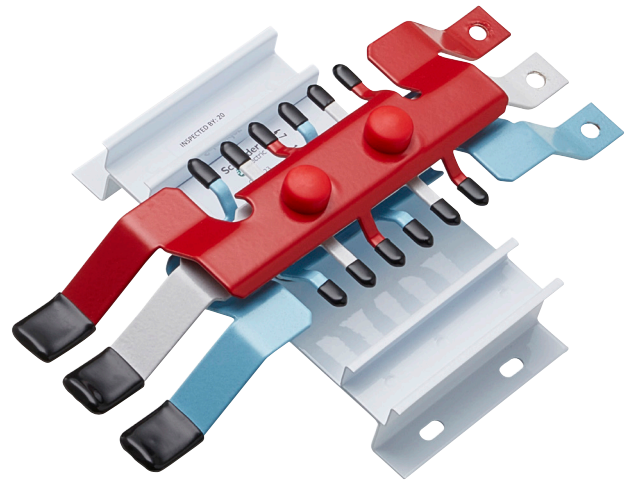
## Functions and characteristics

### 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

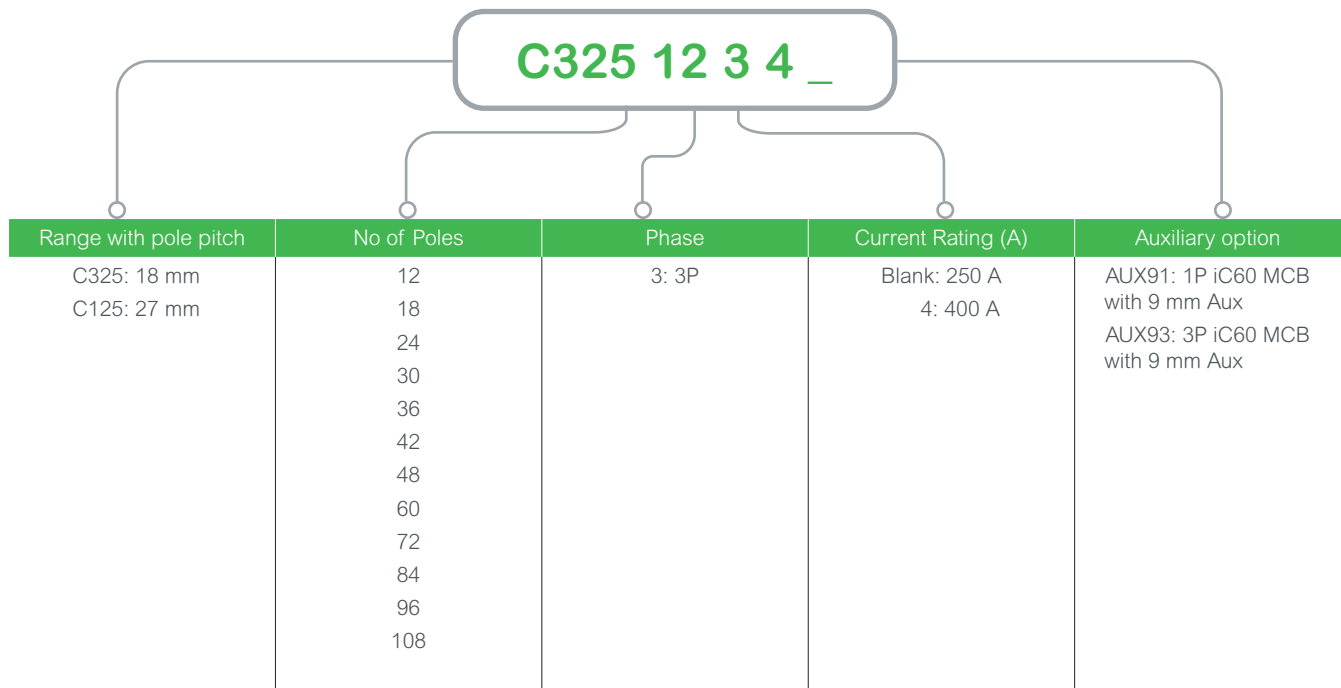
Rated voltage (Ue)	415 V AC, 50 Hz
Rated insulation voltage (Ui)	500 V
Rated impulse withstand voltage (Uimp)	6 kV
Rated current of the assembly (InA) Max full assembly achieved based on AS/NZS 61439 Verification designs <sup>(1)</sup>	up to 250 A with INS250 Switch disconnector up to 330 A with INS400 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

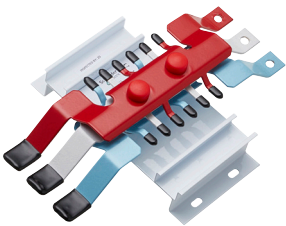


Note: C3DCXXX 2 Phase or DC chassis are not included in the naming convention table

## 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



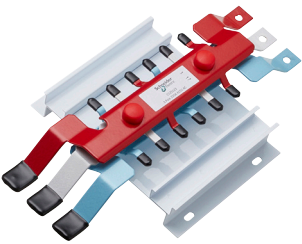
C325123

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



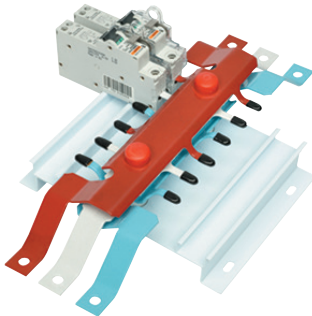
C125123

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



**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

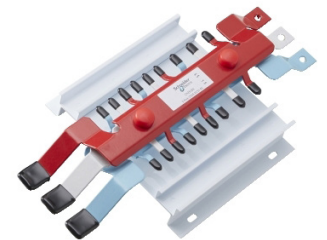
## Hybrid & Phase Neutral Chassis

CH25 12 3 4

Range with pole pitch	No of Poles	Phase	Current Rating (A)
<b>Hybrid</b> CH25: 18/27 mm  <b>Phase Neutral</b> 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.)	8	74		
	16	146	C3251643	
	24	218	C3252443	C32524434
	32	290	C3253243	
	40	362	C3254043	
	48	434	C3254843	C32548434
	56	506		
	64	578		
	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

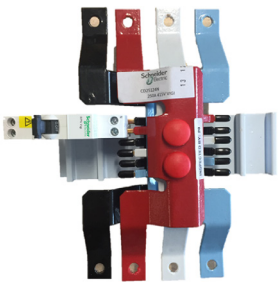


## Note:

\*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 Pad Lock Device Front
	SAUA9PLDTC	iC60 Pad Lock Device Terminal Cover
	SAUA9PLDF	iC60 Pad Lock Device Pole Filler
	A9A26381	Acti9 Padlocking device right
	A9A26380	Acti9 Padlocking device left



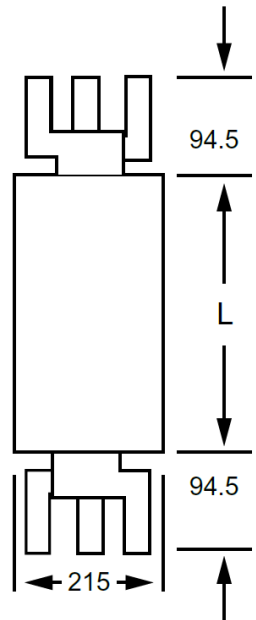
SAUA9PLDF



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			 
		Upto 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

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**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: [customercare.au@se.com](mailto:customercare.au@se.com)  
website: [www.se.com/au](http://www.se.com/au)

05-2022

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