

Miniature circuit breakers

UL/CSA + IEC/EN 60947-2 + GB

C60BP - UL 489 - Z, C, D curves – Tunnel terminals



UL 489 / CSA C22.2 No 5 / IEC/EN 60947-2 / GB 14048-2

C60BP are multi-standard miniature circuit breakers and branch circuit protection as defined by UL 489. It combines following functions:

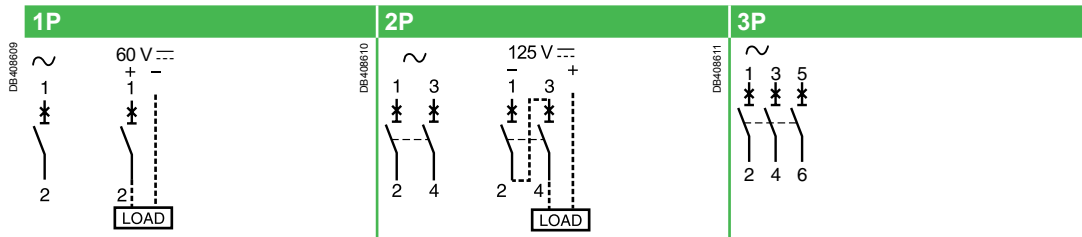
- circuit protection against short-circuit currents
- circuit protection against overload currents
- tripping and fault indication by the addition of auxiliaries.



Number of 18 mm (0.71 in.) poles	Rating (A) 25°C/77°F	Breaking capacity (kA rms) AIR				Icu			
		UL 489 / CSA C22.2 No 5				IEC 60947-2			
1P	0.5 to 35	277 V ~	240 V ~	120 V ~	60 V ---	440 V ~	415 V ~	240 V ~	60 V ---
	40 to 63	-	10	10	10	-	3	10	20
2P	1 to 25	480Y/277 V ~		240 V ~	125 V ---	440 V ~	415 V ~	240 V ~	125 V ---
	30 to 35	10	10	14	10	6	10	20	-
3P	1 to 35	10	-	14	-	6	10	20	-
2P/3P	40 to 63	-	10	-	-	6	10	20	-



Electrical diagrams



Catalogue numbers

Tunnel terminal connection											
Type	UL489 and CSA voltages	1P			2P			3P			
Auxiliaries											
Remote indication and tripping, see page 43											
Rating (In)		Curve			Width in 9 mm modules	Curve		Width in 9 mm modules	Curve		Width in 9 mm modules
		Z	C	D (=K)		C	D (=K)		C	D (=K)	
C60BP											
0.5	480Y/277 V and 240 V	M9F44170	M9F42170	M9F43170	2	-	-	4	-	-	6
1		M9F44101	M9F42101	M9F43101		M9F42201	M9F43201		M9F42301	M9F43301	
2		M9F44102	M9F42102	M9F43102	M9F42202	M9F43202	M9F42302	M9F43302			
3		M9F44103	M9F42103	M9F43103	M9F42203	M9F43203	M9F42303	M9F43303			
4		M9F44104	M9F42104	M9F43104	M9F42204	M9F43204	M9F42304	M9F43304			
5		M9F44105	M9F42105	M9F43105	M9F42205	M9F43205	M9F42305	M9F43305			
6		M9F44106	M9F42106	M9F43106	M9F42206	M9F43206	M9F42306	M9F43306			
8		M9F44108	M9F42108	M9F43108	M9F42208	M9F43208	M9F42308	M9F43308			
10		M9F44110	M9F42110	M9F43110	M9F42210	M9F43210	M9F42310	M9F43310			
15		M9F44115	M9F42115	M9F43115	M9F42215	M9F43215	M9F42315	M9F43315			
20	M9F44120	M9F42120	M9F43120	M9F42220	M9F43220	M9F42320	M9F43320				
25	M9F44125	M9F42125	M9F43125	M9F42225	M9F43225	M9F42325	M9F43325				
30	M9F44130	M9F42130	M9F43130	M9F42230	M9F43230	M9F42330	M9F43330				
35	M9F44135	M9F42135	M9F43135	M9F42235	M9F43235	M9F42335	M9F43335				
40	240 V only	M9F44140	M9F42140	M9F43140	2	M9F42240	M9F43240	4	M9F42340	M9F43340	6
45		M9F44145	M9F42145	M9F43145		M9F42245	M9F43245		M9F42345	M9F43345	
50		M9F44150	M9F42150	M9F43150		M9F42250	M9F43250		M9F42350	M9F43350	
55		M9F44155	M9F42155	M9F43155		M9F42255	M9F43255		M9F42355	M9F43355	
63		M9F44163	M9F42163	M9F43163		M9F42263	M9F43263		M9F42363	M9F43363	
Accessories		See page 48									

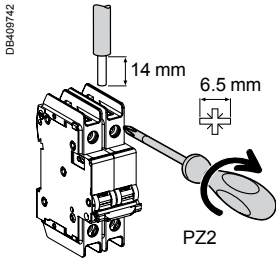
UL/CSA + IEC/EN 60947-2 + GB

C60BP - UL 489 - Z, C, D curves – Tunnel terminals (cont.)

Conformity with product standards

- UL 489 branch circuit protection, document #E215117.
- CSA C22.2 No 5 branch circuit protection, document #E179014.
- IEC/EN 60947-2.
- GB 14048-2.

UL 486A connections for copper cables, document #E216919

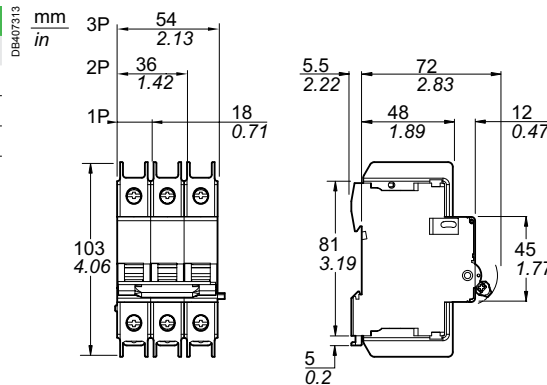


		Without accessory	
Rating	Tightening torque	Copper cables	
		Rigid, flexible or with ferrule	
0.5 to 25 A	2.5 N.m (22 lb.in)	IEC 60947-2	UL 486A-B
30 to 63 A	3.5 N.m (31 lb.in)	1 to 25 mm ²	AWG #18 to #8
		1 to 35 mm ²	AWG #18 to #2

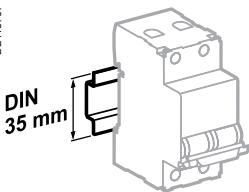
Weight (g / oz)

Circuit-breaker	
Type	C60BP
1P	130 g / 4.58 oz
2P	260 g / 9.17 oz
3P	390 g / 13.76 oz

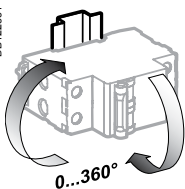
Dimensions (mm / inches)



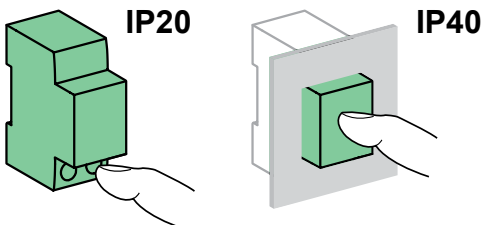
C60BP Tunnel terminal



Clip on DIN rail 35 mm.



Indifferent position of installation.



Technical data

Main characteristics			
Insulation voltage (U _i)		500 V	
Service breaking capacity (I _{cs})	In alternating current	75 % of I _{cu}	
	In direct current	100 % of I _{cu}	
Pollution degree		3	
Rated impulse withstand voltage (U _{imp})		6 kV	
Thermal tripping	Reference temperature	25°C / 77°F	
Magnetic tripping	Z curve	In alternating current	3 I _n ± 20 %
		In direct current	4.2 I _n ± 20 %
	C curve	In alternating current	8.5 I _n ± 20 %
		In direct current	12 I _n ± 20 %
	D curve (=K curve)	In alternating current	12 I _n ± 20 %
		In direct current	17 I _n ± 20 %
Additional characteristics			
Degree of protection (IEC 60529)	Device only	IP20	
	Device in modular enclosure	IP40 Insulation class II	
Endurance (O-C)	Electrical	10,000 cycles	
	Mechanical	20,000 cycles	
Operating temperature		-30°C to +70°C / -22°F to 158°F	
Storage temperature		-40°C to +80°C / -40°F to 176°F	
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity 95 % at 55°C / 131°F)	
Dissipated power		See page 68	

UL/CSA + IEC/EN 60947-2 + GB

C60BPR - UL 489 - Z, C, D curves – Ring-tongue terminals



UL 489 / CSA C22.2 No 5 / IEC/EN 60947-2 / GB 14048-2

C60BPR are multi-standard miniature circuit breakers and branch circuit protection as defined by UL 489. It combines following functions:

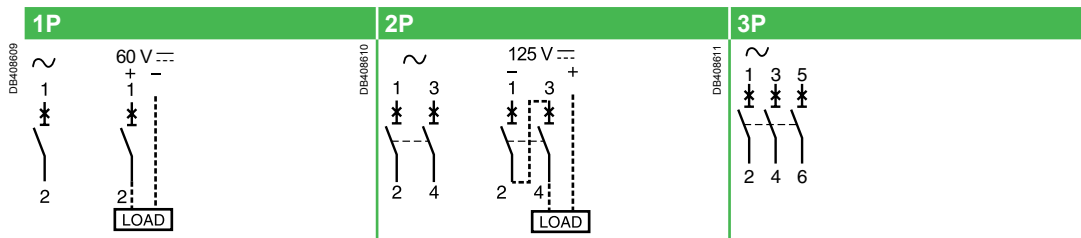
- circuit protection against short-circuit currents
- circuit protection against overload currents
- tripping and fault indication by the addition of auxiliaries
- IP2X ring tongue terminal connection.



Number of poles	Rating (A) 25°C/77°F	Breaking capacity (kA rms) AIR				Icu			
		UL 489 / CSA C22.2 No 5				IEC 60947-2			
1P	1 to 35	277 V ~	240 V ~	120 V ~	60 V ---	440 V ~	415 V ~	240 V ~	60 V ---
	40 to 63	-	10	10	10	-	3	10	20
2P	1 to 25	480Y/277 V ~		240 V ~	125 V ---	440 V ~	415 V ~	240 V ~	125 V ---
	30 to 35	10	14	-	-	6	10	20	-
3P	1 to 35	10	14	-	-	6	10	20	-
2P/3P	40 to 63	-	10	□	-	6	10	20	-



Electrical diagrams



Catalogue numbers

Ring tongue terminal connection											
Type	UL489 and CSA voltages	1P			2P			3P			
Auxiliaries											
Remote indication and tripping, see page 43											
Rating (In)		Curve			Width in 9 mm modules	Curve		Width in 9 mm modules	Curve		Width in 9 mm modules
		Z	C	D (=K)		C	D (=K)		C	D (=K)	
C60BPR											
1	480Y/277 V and 240 V	M9F54101	M9F52101	M9F53101	2	M9F52201	M9F53201	4	M9F52301	M9F53301	6
2		M9F54102	M9F52102	M9F53102		M9F52202	M9F53202		M9F52302	M9F53302	
4		M9F54104	M9F52104	M9F53104		M9F52204	M9F53204		M9F52304	M9F53304	
6		M9F54106	M9F52106	M9F53106		M9F52206	M9F53206		M9F52306	M9F53306	
8		M9F54108	M9F52108	M9F53108		M9F52208	M9F53208		M9F52308	M9F53308	
10		M9F54110	M9F52110	M9F53110		M9F52210	M9F53210		M9F52310	M9F53310	
15		M9F54115	M9F52115	M9F53115		M9F52215	M9F53215		M9F52315	M9F53315	
20		M9F54120	M9F52120	M9F53120		M9F52220	M9F53220		M9F52320	M9F53320	
25	M9F54125	M9F52125	M9F53125	M9F52225	M9F53225	M9F52325	M9F53325				
30	M9F54130	M9F52130	M9F53130	M9F52230	M9F53230	M9F52330	M9F53330				
35	M9F54135	M9F52135	M9F53135	M9F52235	M9F53235	M9F52335	M9F53335				
40	240 V only	M9F54140	M9F52140	M9F53140	2	M9F52240	M9F53240	4	M9F52340	M9F53340	6
45		M9F54145	M9F52145	M9F53145		M9F52245	M9F53245		M9F52345	M9F53345	
50		M9F54150	M9F52150	M9F53150		M9F52250	M9F53250		M9F52350	M9F53350	
63		M9F54163	M9F52163	M9F53163		M9F52263	M9F53263		M9F52363	M9F53363	
Accessories											
See page 48											

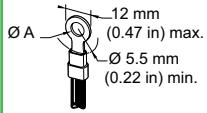
UL/CSA + IEC/EN 60947-2 + GB

C60BPR - UL 489 - Z, C, D curves – Ring-tongue terminals (cont.)

Conformity with product standards

- UL 489 branch circuit protection, document #E215117.
- CSA C22.2 No 5 branch circuit protection, document #E179014.
- IEC/EN 60947-2.
- GB 14048-2.

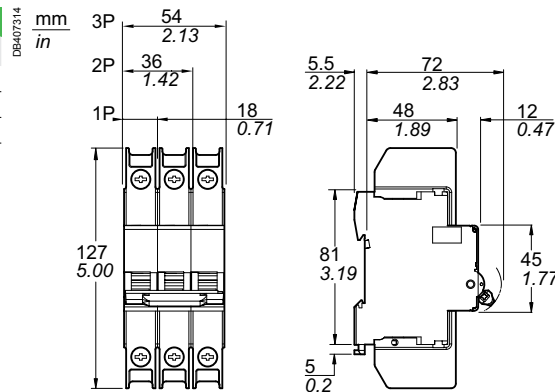
UL 486A connections for copper wires, document #E216919

Rating	Tightening torque	With accessory Screw-on connection for ring terminal
1 to 63 A	2 N.m (18 lb.in)	 <p>Thickness: 3 mm (0.12 in) or 2 x 1.5 mm (0.06 in) max.</p> <p>Ø A: 5 mm (#10)</p>

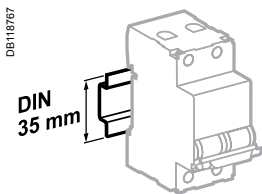
Weight (g / oz)

Circuit-breaker	
Type	C60BPR
1P	130 g / 4.58 oz
2P	260 g / 9.17 oz
3P	390 g / 13.76 oz

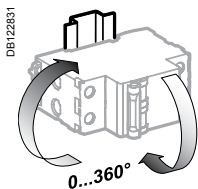
Dimensions



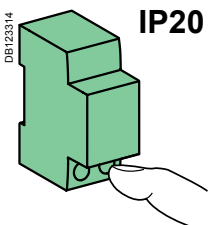
C60BPR Ring tongue terminal



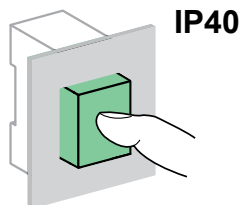
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



IP40

Technical data

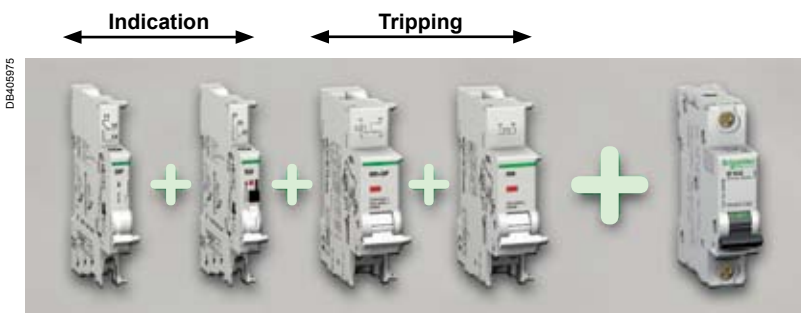
Main characteristics			
Insulation voltage (Ui)		500 V	
Service breaking capacity (Ics)	In alternating current	75 % of Icu	
	In direct current	100 % of Icu	
Pollution degree		3	
Rated impulse withstand voltage (Uimp)		6 kV	
Thermal tripping	Reference temperature	25°C / 77°F	
Magnetic tripping	Z curve	In alternating current	3 In ± 20 %
		In direct current	4.2 In ± 20 %
	C curve	In alternating current	8.5 In ± 20 %
		In direct current	12 In ± 20 %
	D curve (=K curve)	In alternating current	12 In ± 20 %
		In direct current	17 In ± 20 %
Additional characteristics			
Degree of protection	Device only (IEC 60529)	IP20	
	Device in modular enclosure	IP40 Insulation class II	
Endurance (O-C)	Electrical	10,000 cycles	
	Mechanical	20,000 cycles	
Operating temperature		-30°C to +70°C / -22°F to 158°F	
Storage temperature		-40°C to +80°C / -40°F to 176°F	
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity 95 % at 55°C / 131°F)	
Dissipated power		See page 68	



Compliance with electrical auxiliaries standards

- For UL 489 Branch circuit protection File #E215117.
- For CSA C22.2 No. 5 Branch circuit protection File #179014.
- For UL 1077 Supplementary Protection File #E90509.
- For CSA C22.2 No. 235 Supplementary Protection File #179014.
- For IEC 60947-1 and IEC 60947-5-1 circuit-breakers.
- CE Marked.

- The electrical auxiliaries provide the remote tripping or position (open/closed/tripped) indication functions of these devices in the event of a fault.
- They clip on (no tool required) to the left-hand side of the associated device.
- The SD+OF auxiliary is a two-in-one product: a mechanical selector switch is used to select one of two contacts: SD or OF.



Combination table

Indication auxiliaries		Tripping auxiliaries		Devices	
1 SD+OF maxi	1 SD+OF maxi	1 maxi			
1 OF maxi	1 (SD+OF or SD or OF) maxi	2 maxi			C60, N40N, N40 Vigi
None	1 (SD+OF or OF) maxi	2 maxi			
1 OF maxi	1 OF maxi	1 maxi		OF.S	RCCB-ID
None		None			
	1 OFsp				RCCB-ID B type



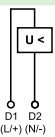
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Tripping devices must be installed first.
 If two tripping devices are used: the MN undervoltage release must be installed first
 Indication auxiliaries: install the SD auxiliary first




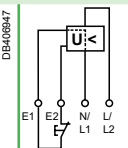
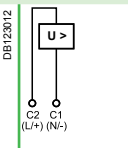
Common electrical auxiliaries (cont.)

Tripping

Auxiliaries	MN					MN ^S	
Type	Undervoltage release						
	Instantaneous					Delayed	
							
Function	<ul style="list-style-type: none"> Causes the device with which it is associated to trip when its input voltage decreases (between 70 % and 35 % of U_n). Prevents the device from closing until its input voltage has been restored 					<ul style="list-style-type: none"> No tripping in the event of transient voltage dips (up to 0.2 s) 	
Wiring diagrams							
Utilization	<ul style="list-style-type: none"> Emergency stop via a normally-closed pushbutton Ensures the safety of the power supply circuits of several machines by preventing accidental startups 						
Catalogue numbers	M9A27108	M9A27107	M9A26960	M9A26961	M9A26959	M9A26963	
Technical specifications							
Rated voltage (U_e)	V AC	24	120	220...240	48	115	220...240
	V DC	24			48		–
Operating frequency	Hz	50/60				400	50/60
Pollution degree		3					3
Mechanical state indicator light, red		On front face					On front face
Test function		–					–
Width in 9 mm modules		2					2
Operating current		–					–
Number of contacts		–					–
Operating temperature		-25...+50°C / -13...122°F					-25...+50°C / -13...122°F
Storage temperature		-40...+85°C / -40...185°F					-40...+85°C / -40...185°F
Standards							
IEC/EN 60947-1		■					■
IEC/EN 60947-5-1		–					–
EN 60947-2		■					■
EN 62019-2		–					–
UL		■					■
SE SA		■					■
RU		■					■
CCC		–					–
ERC		■					■

Auxiliaries and accessories

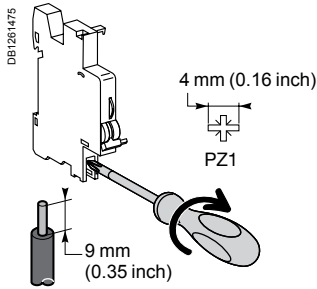
Common electrical auxiliaries (cont.)

MNx	MX	MX+OF
		Shunt release
Independent of the supply voltage		With open/closed auxiliary contact
		
<ul style="list-style-type: none"> Tripping of the associated device by opening of the control circuit (e.g. push-button, dry contact) 	<ul style="list-style-type: none"> Trips the associated device when it is powered on 	
<ul style="list-style-type: none"> A drop in the supply voltage does not trip the associated device A locking push-button control allows the circuit protected (e.g. machine control) to be placed in safety configuration 		<ul style="list-style-type: none"> Includes an open/closed contact (OF contact) to indicate the "open" or "closed" position of the associated device
		
<ul style="list-style-type: none"> Fail-safe emergency stop Insensitive to the variation in the control circuit voltage to improve continuity of service Important: Before any servicing operation switch off the mains power supply (voltage presence at terminals E1/E2) 	<ul style="list-style-type: none"> Emergency stop via a normally-open pushbutton. 	<ul style="list-style-type: none"> Emergency stop via a normally-open pushbutton Remote indication of the position of the associated device
M9A26969 M9A26971	M9A26476 M9A26477 M9A26478	M9A26946 M9A26947 M9A26948
230 400	100...415 48 12...24	100...415 48 12...24
—	110...130 48 12...24	110...130 48 12...24
50/60	50/60	50/60
3	3	3
On front face	On front face	On front face
—	—	—
2	2	2
—	—	3 A / 415 V AC 6 A / ≤ 240 V AC
—	—	1 NO/NC
-25...+50°C / -13...122°F	-25...+50°C / -13...122°F	-25...+50°C / -13°F...122°F
-40...+85°C / -40...185°F	-40...+85°C / -40...185°F	-40...+85°C / -40°F...185°F
■	■	■
—	—	—
—	—	—
—	—	—
—	■	■
—	■	■
—	■	■
—	—	■
■	■	■

Common electrical auxiliaries (cont.)

		Signalisation				
Auxiliaries		OF.S	OFsp	OF	SD	SD+OF
Type		Open/closed auxiliary contact	Open/closed auxiliary contact	Open/closed auxiliary contact	Fault indicating contact	Double open/closed or fault indicating contact
	 PE100626_SE-30	 PB107910-30	 PE100626_SE-30	 PE100626_SE-30	 PE100626_SE-30	 PE100626_SE-30
Function		<ul style="list-style-type: none"> Changeover contact indicating the "open" or "closed" position of the associated device <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>⚠ Compulsory for the addition of tripping or indication auxiliaries on an ID RCCB</p> </div>	<ul style="list-style-type: none"> Changeover contact indicating the "open" or "closed" position of the associated device 	<ul style="list-style-type: none"> Changeover contact indicating the position of the associated device in the event of: <ul style="list-style-type: none"> □ electrical fault □ action on the tripping auxiliary <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>⚠ Not compatible with a RCCB-ID residual current circuit breaker, use a SD+OF in the SD position</p> </div>	<ul style="list-style-type: none"> Changeover contact indicating the position of the associated device in the event of: <ul style="list-style-type: none"> □ electrical fault □ action on the tripping auxiliary 	<ul style="list-style-type: none"> The SD+OF auxiliary is a two-in-one product: choice of OF or SD contact via the selector switch
Wiring diagrams		 DB11809	 DB408611	 DB118810	 DB118811	 DB118812 DB118813
Utilization		<ul style="list-style-type: none"> Remote indication of the position of the associated device 	<ul style="list-style-type: none"> Remote indication of the position of the associated device 	<ul style="list-style-type: none"> Remote fault tripping indication of the associated device 	<ul style="list-style-type: none"> Remote position and/or fault tripping indication of the associated device 	<ul style="list-style-type: none"> Remote position and/or fault tripping indication of the associated device
Catalogue numbers		26923	16940	M9A26924	M9A26927	M9A26929
Technical specifications						
Rated voltage (Ue) V AC		24...415	230	240...415	240...415	240...415
V DC		24...130	110	24...130	24...130	24...130
Operating frequency Hz		50/60	50	50/60	50/60	50/60
Pollution degree		3	3	3	3	3
Mechanical state indicator light, red		–	–	–	On front face	On front face
Test function		–	–	On front face	On front face	On front face
Width in 9 mm modules		1	1	1	1	1
Operating current		3 A /415 V AC 6 A / ≤240 V AC	1 A /110 V DC 6 A / ≤230 V AC	3 A /415 V AC 6 A / ≤240 V AC	3 A /415 V AC 6 A / ≤240 V AC	3 A /415 V AC 6 A / ≤240 V AC
Number of contacts		1 NO/NC	1 NC + NC/NO	1 NO/NC	1 NO/NC	1 NO/NC + 1 NO/NC
Operating temperature		-25...+50°C / -13°F...122°F	-25...+50°C / -13°F...122°F	-25...+50°C / -13°F...122°F	-25...+50°C / -13°F...122°F	-25...+50°C / -13°F...122°F
Storage temperature		-40...+85°C / -40°F...185°F	-40...+85°C / -40°F...185°F	-40...+85°C / -40°F...185°F	-40...+85°C / -40°F...185°F	-40...+85°C / -40°F...185°F
Standards						
IEC/EN 60947-1		–	–	–	–	–
IEC/EN 60947-5-1		■	–	■	■	■
EN 60947-2		–	–	–	–	–
EN 62019-2		■	–	■	■	■
UL		–	–	■	■	■
SA SA		–	–	■	■	■
RA		–	–	■	■	■
CCC		–	–	■	■	■
EAC		–	–	■	■	■

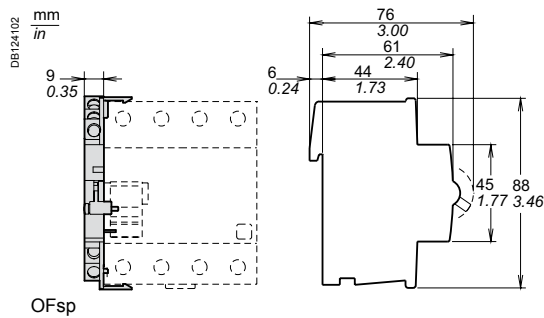
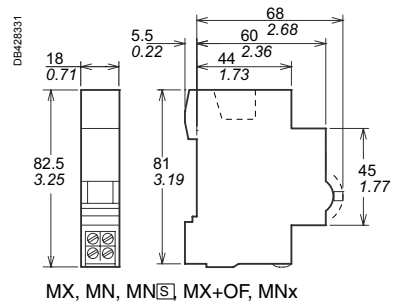
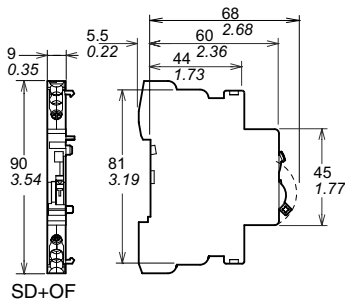
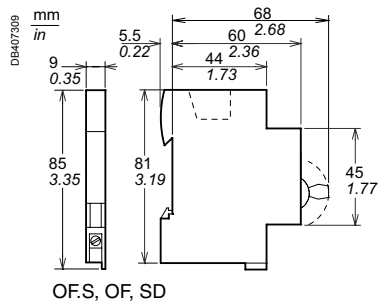
Common electrical auxiliaries (cont.)



Connection

Type	Tightening torque	Copper cables
Indication and tripping auxiliaries	1 N.m (9 lb.in)	Rigid
		DB122946
OFsp	0.8 N.m (7 lb.in)	DB405990 or
		DB428331

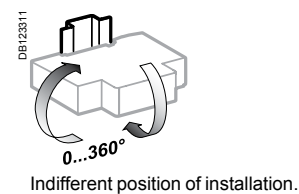
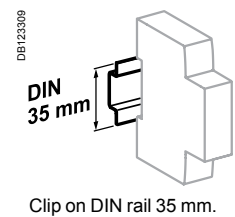
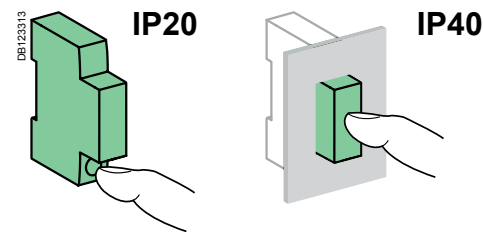
Dimensions (mm / inches)



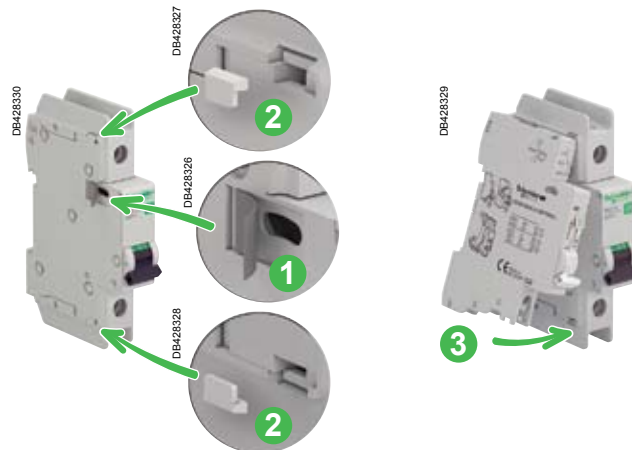
Weight (g / oz)



Electrical auxiliaries	
Type	
MN	66 g / 2.32 oz
MN \square	66 g / 2.32 oz
MNx	73 g / 2.57 oz
MX	60 g / 2.32 oz
MX+OF	65 g / 2.12 oz
OF.S	33 g / 1.16 oz
OF	30 g / 1.06 oz
OFsp	40 g / 1.41 oz
SD	30 g / 1.06 oz
SD+OF	38 g / 1.34 oz

3



C60BP or C60BPR association



Installation				
Accessories	Rotary handle			Plug-in base
				
	<p>PB100137_SE-24 PB100138_SE-24</p>			<p>PB111764-40</p>
Function				
	<p>Front or side control of 2, 3 and 4-pole circuit breakers</p> <ul style="list-style-type: none"> ■ Degree of protection: IP40 ■ A complete rotary handle consists of: <ul style="list-style-type: none"> □ a circuit-breaker operating sub-assembly, cat. no. 27046, □ a handle cat. no. 27047 or a handle cat. no. 27048 ■ Installation: <ul style="list-style-type: none"> □ the circuit-breaker operating sub-assembly cat. no. 27046 is fixed to the circuit breaker □ the removable handle cat. no. 27047 is mounted on the removable front panel or on the enclosure door □ the fixed handle cat. no. 27048 is fixed to the front or side panel of the enclosure 			<p>Allows a circuit breaker to be quickly removed or replaced, without touching the connections</p> <ul style="list-style-type: none"> ■ Degree of protection: IP20 ■ It consists of: <ul style="list-style-type: none"> □ a base to be fixed to a rail (or panel) □ 2 "blades" to be fixed in the device terminals ■ Connection: tunnel terminals for cables up to 50 mm² (rigid) or 35 mm² (flexible) ■ Installation: <ul style="list-style-type: none"> □ on backplate □ on a horizontal rail ■ Centreline between two rows: 200 mm ■ Only on the circuit breaker, without a Vigi device or auxiliary ■ Padlocking option (8 mm dia. padlock not supplied)
Cat. numbers	27047 Removable extended handle	27048 Fixed handle	27046 Operating sub-assembly	26996 (1 per pole)
Set of	1	1	1	1
Suitable for the following devices:				
C60_{BP} UL489, C60_{BPR} UL489	■ 2P, 3P			—
C60_{SP} UL1077	■ 2P, 3P, 4P			■
C60_{H-DC}	■ 2P			■
GFP UL1053	—			■
C60N, H, L, C60CTRL	■ 2P, 3P, 4P			■
N40N	■ 3P+N			—
RCCB-ID (AC, A-SI types)	—			—
RCCB-ID B type	—			—
N40 Vigi	—			—
Operating temperature	-35°C to +70°C / -31°F to 158°F			-35°C to +70°C / -31°F to 158°F

Auxiliaries and accessories

Common accessories (cont.)

Accessories		Padlocking device		
		Front		Side
				
	05720A_SE-20	DB409566-25	AGA26380-40	AGA26381-40
Function				
	<p>Used to padlock a circuit breaker in the "open" or "closed" position</p> <ul style="list-style-type: none"> Locking in the ON position does not prevent the circuit breaker from tripping in the event of a fault Isolation: in conformity with IEC/EN 60947-2. Diameter of the padlock: 8 mm max. 	<p>Used to padlock a circuit breaker in the "open" position</p> <ul style="list-style-type: none"> Isolation: in conformity with UL 489/CSA C22.2 No 5 Listed and UL 1077 Recognized. Diameter of the padlock: 8 mm max. 	<p>Can be used to padlock a circuit breaker in open position</p> <ul style="list-style-type: none"> Attached directly to the circuit breaker, it cannot be lost Padlock diameter: 6 mm 	
Cat. numbers	26970	M9PAF	MGN26380 Left-hand mounting	MGN26381 Right-hand mounting
Set of	2	1	1	1
Suitable for the following devices:				
C60_{BP} UL489, C60_{BPR} UL489	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C60_{SP} UL1077	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C60_{H-DC}	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GFP UL1053	<input checked="" type="checkbox"/>	–	–	–
C60N, H, L, C60CTRL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
N40N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RCCB-ID (AC, A-SI types)	<input checked="" type="checkbox"/>	–	–	–
RCCB-ID B type	–	–	–	–
N40 Vigi	<input checked="" type="checkbox"/>	–	–	–
Operating temperature	-35°C to +70°C / -31°F to 158°F	-35°C to +70°C / -31°F to 158°F	-35°C to +70°C / -31°F to 158°F	-35°C to +70°C / -31°F to 158°F

Auxiliaries and accessories






Common accessories (cont.)






Installation (continued)


Accessories	Front mounting kit		Pole filler	Front mounting bracket				
	Front mounting kit	DIN rail support						
Function	<ul style="list-style-type: none"> Consists of a transparent, hinged, weatherproof cover Allows installation of up to twenty modules (10 poles of C60) of circuit breakers or supplementary protectors and accessories A DIN rail with support is also available Degree of protection as per IEC 529: IP55 Includes a 10-Module divisible blanking plate and mounting template 	<ul style="list-style-type: none"> DIN rail with support for front mounting kit cat. no. 14210 Allows installation of up to twenty modules (10 poles of C60) of circuit breakers or supplementary protectors and accessories 	<ul style="list-style-type: none"> Used to fill empty panels spaces They clip into space They may be snapped apart in 9 mm increments 	<ul style="list-style-type: none"> Provides a convenient way to mount circuit breakers, supplementary protectors or accessories Allows the C60 devices to be clipped onto it in a standard manner In 480 V AC UL 1077 applications, cat. no. 26981 terminal screw shield should be used for increased isolation between the terminal screws of the device and the mounting bracket. These shields are included with the mounting bracket kits 				
Cat. numbers	14210	14211	M9PF4	M9PF5	MG26983	MG26984	MG26985	MG26989
			4 strips of 4 by 18 mm pole filler	4 strips of 5 by 18 mm pole filler				
Set of	1	1	4	4	1			
Suitable for the following devices:								
C60^{BP} UL489,	■	For multi-pole mounting kit cat. no.14210	For multi-pole mounting kit cat. no.14210	■				
C60^{BPR} UL489	■			■				
C60^{SP} UL1077	■			■				
C60^{H-DC}	■			■				
GFP UL1053	■			■				
C60N, H, L,	■			■				
C60CTRL	■			■				
N40N	■			■				
RCCB-ID (AC, A-SI types)	■			■				
RCCB-ID B type	—			—				
N40 Vigi	■	■						
Operating temperature	-35°C to +70°C / -31°F to 158°F				-35°C to +70°C / -31°F to 158°F			

Auxiliaries and accessories

Common accessories (cont.)

Safety						
Accessories	Screw shield		Terminal shield	Interpole barrier	Spacer	
						
Function	Prevents all contact with the fixing screws <ul style="list-style-type: none"> The degree of protection becomes IP40 Sealable, max. diameter 1.2 mm 		Prevents all contact with the terminals <ul style="list-style-type: none"> Degree of protection becomes IP40 Sealable, max. diameter 1.2 mm 		Improves the insulation between the connections: cables, terminals, lugs, etc. <ul style="list-style-type: none"> Used to: <ul style="list-style-type: none"> complete the rows separate the devices Width: 1 x 9 mm module Allows that 2 cables are routed from one row to another (above and below), up to 6 mm² 	
	<ul style="list-style-type: none"> Dividable 		<ul style="list-style-type: none"> 1P 2P 3P: 1 x 26975 + 1 x 26976 4P: 2 x 26976 			
Cat. numbers	26981	16939	26975	26976	27001	27062
Set of	2 (4P dividable)	10	2 (for upstream/downstream terminal)		10	1
Suitable for the following devices:						
C60_{BP} UL489,	–	–	–	–	–	■
C60_{BPR} UL489	–	–	–	–	–	■
C60_{SP} UL1077	■	–	■	■	■	■
C60_{H-DC}	■	–	■	■	■	■
GFP UL1053	■	–	–	–	■	■
C60N, H, L, C60CTRL	■	–	■	■	■	■
N40N	–	–	–	–	–	■
RCCB-ID (AC, A-SI types)	■	–	■	■	■	■
RCCB-ID B type	–	■	–	–	–	■
N40 Vigi	–	–	–	–	–	■
Operating temperature	-35°C to +70°C / -31°F to 158°F	-35°C to +70°C / -31°F to 158°F	-35°C to +70°C / -31°F to 158°F		-35°C to +70°C / -31°F to 158°F	-35°C to +70°C / -31°F to 158°F

Connection				
Accessories	Multi-cable terminal	50 mm ² / #1 AWG Al terminal	Connection kit for ring terminals	
				
Function	For 3 copper cables: <ul style="list-style-type: none"> Rigid up to 16 mm² Flexible up to 10 mm² 	For 16 to 50 mm² aluminium cables	For terminal up to 63 A, front or rear access (screw Ø 5 mm) <ul style="list-style-type: none"> It incorporates a "conductive" part and an "insulating" part which ensures the phase-to-phase clearance 	
				
Cat. numbers	19091	19096	27060	M9A17400
Set of	4	3	1	24
Suitable for the following devices:				
C60_{BP} UL489, C60_{BPR} UL489	–	–	–	–
C60_{SP} UL1077 ≤ 25 A	–	–	–	■
C60_{SP} UL1077 > 25 A	■	■	–	■
GFP UL1053	■	■	–	–
C60N, H, L, C60CTRL ≤ 25 A	–	–	–	■
C60N, H, L, C60CTRL > 25 A	■	■	■	■
C60_{H-DC} ≤ 25 A	–	–	–	■
C60_{H-DC} > 25 A	■	■	■	■
N40N	–	–	–	–
RCCB-ID (AC, A-SI types)	■	■	■	–
RCCB-ID B type	–	–	–	–
N40 Vigi	–	–	–	–
Tightening torque	2 N.m (18 lb.in)		10 N.m (89 lb.in)	2 N.m (18 lb.in)
Stripping length	11 mm (0.43 in)		13 mm (0.51 in)	–
Tools to be used	Diameter 5 mm (0.2 in) or PZ2		Hc 1/5" or 5 mm (0.2 in)	Diameter 5 mm (0.2 in) or PZ2
Operating temperature	-35°C to +70°C / -31°F to 158°F		-35°C to +70°C / -31°F to 158°F	-35°C to +70°C / -31°F to 158°F

Identification				
Accessories	Clip-on terminal marker strip			
				
Function	For connection identification			
Cat. numbers	0: AB1-R0 1: AB1-R1 2: AB1-R2 3: AB1-R3 4: AB1-R4 5: AB1-R5 6: AB1-R6 7: AB1-R7 8: AB1-R8 9: AB1-R9	A: AB1-GA B: AB1-GB C: AB1-GC D: AB1-GD E: AB1-GE F: AB1-GF G: AB1-GG H: AB1-GH I: AB1-GI J: AB1-GJ	K: AB1-GK L: AB1-GL M: AB1-GM N: AB1-GN O: AB1-GO P: AB1-GP Q: AB1-GQ R: AB1-GR S: AB1-GS T: AB1-GT	U: AB1-GU V: AB1-GV W: AB1-GW X: AB1-GX Y: AB1-GY Z: AB1-GZ +: AB1-R12 -: AB1-R13 Blank: AB1-RV
Set of	250			
Suitable for the following devices:				
C60_{BP} UL489	–			
C60_{BPR} UL489	–			
C60_{SP} UL1077	■ 4 repères maxi. par pôle			
C60_{H-DC}	■ 4 repères maxi. par pôle			
GFP UL1053	■ 4 repères maxi. par pôle			
C60_{H-DC}	■ 4 repères maxi. par pôle			
C60N, H, L, C60CTRL	■ 4 markers max. per pole			
N40N	■ 4 markers max. per pole			
RCCB-ID (2P) (AC, A-SI types)	■ 4 markers max. per pole			
RCCB-ID B type	–			
N40 Vigi	■ 4 markers max. per device			

Comb busbars for C60BP (UL489)



These comb busbars are aimed to be used only with C60BP circuit-breakers.

They perform distribution and subdistribution of the electric power supply and allow rapid assembly and disassembly of equipment.

Comb busbars

Connection accessories

Function

- The comb busbars make it easier to install C60BP UL 489 circuit breakers
- They must not be cut

Use

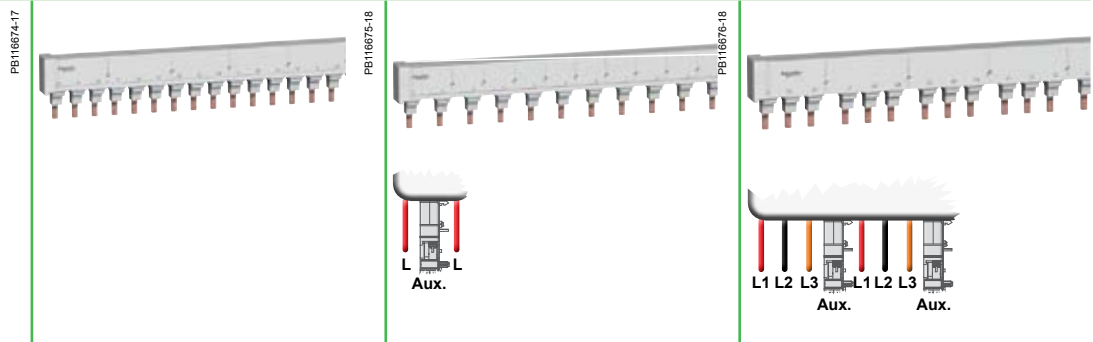
- Power supply by insulated connector

Standard comb busbars



Number of poles	1P		2P		3P	
Catalogue numbers	M9XUP106	M9XUP112	M9XUP206	M9XUP212	M9XUP306	M9XUP312
Number of 18 mm modules	6	12	6	12	6	12
Set of	1		1		1	

Cuttable comb busbars



With spare spaces of 9 mm for 9 mm electrical auxiliary

Number of poles	1P	2P	3P	1P+Aux	3P+Aux
Catalogue numbers	M9XCP157	M9XCP256	M9XCP357	M9XCA137	M9XCA348
Number of 18 mm modules	57	56	57	37	48
Set of	1	1	1	1	1

Technical specifications


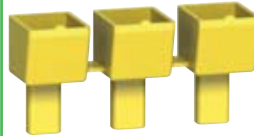

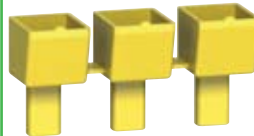

Acceptable current at 40°C (Ie)	Standard comb busbars: 115 A Cuttable comb busbars: 80 A
Resistance to short-circuit currents	Compatible with the breaking capacity of Schneider Electric modular circuit breakers
Voltage rating (Ue)	480Y/277 V
Insulation voltage (Ui)	1000 V AC
Pollution degree	3
Fire resistance	Self-extinguishability 960°C 30 secondes
Colour	RAL 9001
Standards	UL489 and UL508

Comb busbars for C60BP (UL489) (cont.)



These comb busbars are aimed to be used only with C60BP circuit-breakers.

They perform distribution and subdistribution of the electric power supply and allow rapid assembly and disassembly of equipment.

Accessories			
Connection accessories	Insulated connectors	Tooth covers	End-piece
Function			
	<ul style="list-style-type: none"> ■ Comb busbar power supply ■ Vertical incoming feeder 	<ul style="list-style-type: none"> ■ Insulation of teeth remaining free 	<ul style="list-style-type: none"> ■ Essential to ensure the correctly comb busbars insulation
Use			
	<ul style="list-style-type: none"> ■ Rigid and flexible copper cable: 6 to 35 mm² (AWG #10 to #2) ■ Tightening torque: 3.5 N.m (31 lb.in). 		
Standard comb busbars			
	 PB116879-28	 PB116860-18	-
Number of poles	All	All	-
Catalogue numbers	M9XUPC04	M9XUTC15	-
Number of 18 mm modules	-	-	-
Set of	4	5 x 3	-
Cuttable comb busbars			
	 PB116878-27	 PB116860-18	 PB116877-20
Number of poles	All	All	All
Catalogue numbers	M9XCPC04	M9XCTC15	M9XCEC10
Number of 18 mm modules	-	-	-
Set of	4	5 x 3	10
Technical specifications			
Acceptable current at 40°C (Ie)	-	-	-
Resistance to short-circuit currents	Compatible with the breaking capacity of Schneider Electric modular circuit breakers	Compatible with the breaking capacity of Schneider Electric modular circuit breakers	Compatible with the breaking capacity of Schneider Electric modular circuit breakers
Voltage rating (Ue)	480Y/277 V	480Y/277 V	480Y/277 V
Insulation voltage (Ui)	1000 V AC	1000 V AC	1000 V AC
Pollution degree	3	3	3
Fire resistance	Self-extinguishability 960°C 30 secondes	Self-extinguishability 960°C 30 secondes	Self-extinguishability 960°C 30 secondes
Colour	RAL 7035	RAL 1021	RAL 7035
Standards	UL486E	-	-