

Branch Rated, Supplementary & Electronic Circuit Protection



Circuit Protection

Electronics



UL 489 and UL 1077 DIN-Rail Miniature Circuit Breakers

Weidmüller offers a complete line of DIN-rail mountable circuit breakers in thermal magnetic, hydraulic magnetic, and electronic technologies. Used to distinguish between circuit overloads and short circuits, the complete line of miniature circuit breakers are engineered for either AC or DC, or both, in branch and supplementary circuit protection. For space savings, we offer various width sizes from 17.5mm to 8.2mm widths as listed or recognized per UL 489, UL 1077, and CSA 22.2 No. 5-02/235. These circuit breakers are proven solutions to protect your wires and cables from application or device malfunctions. All circuit breakers are available with an assortment of busbar, marking tags, and additional accessories to complement your needs.

Circuit Protection

Branch Rated, Supplementary & Electronic Circuit Protection

Weidmüller's DIN-rail mounted circuit breakers are available for use in applications where circuit protection must be able to distinguish between circuit overloads and short circuits. Each circuit breaker has the ability to be reset without the need to change components. All circuit breakers are available with an assortment of jumpers and marking tags.

Features and Benefits

- Miniature circuit breaker
- Numerous trip curves
- Overcurrent protection
- Thermal and hydraulic solutions
- Electronic protectors
- AC and DC protection



Highly-Rated Branch and Supplementary Circuit Breakers Thermal Magnetic Protection

1-, 2- and 3-pole thermal-magnetic miniature circuit breakers (MCBs) in accordance with EN 60947-2, UL 1077 and UL 489 for DIN-rail mounting, with toggle actuation, visual status indication and high rupture capacity. A positively trip-free snap action mechanism ensures reliable switching behavior. A range of trip characteristics and add-on modules allow a great variety of applications.



BR Series UL 489 version

Typical Applications

- Protection of cables, motors, generators and transformers, thyristors and silicon rectifiers.
- Protection of computers and their peripheral equipment, industrial process control systems, telecommunications equipment, power supplies.

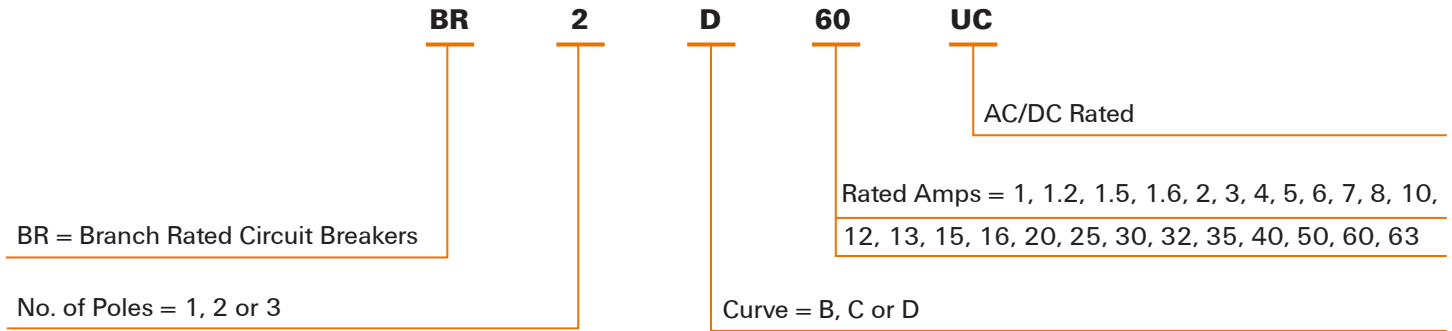


SU Series IEC/EN60947-2 & UL 1077 version

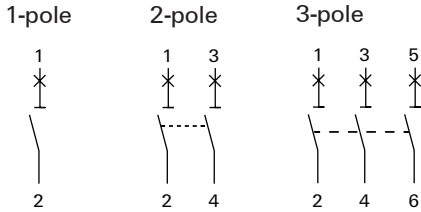
UL 489 DIN-Rail Branch Circuit Breakers BRxxxUC

BR Series Product Selection Part Number Nomenclature

(Part Number found on the front of the breaker)



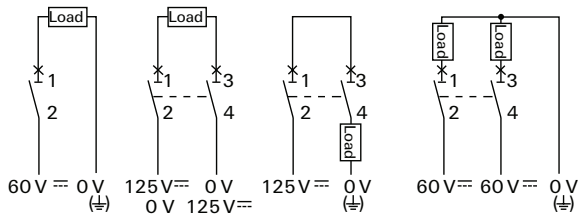
Schematic Diagrams



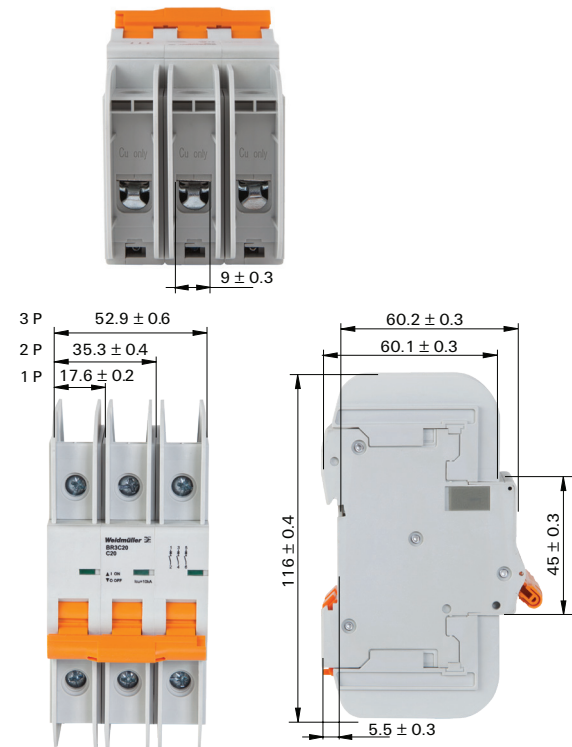
DC Application

When using the BR/SUxxxUC in DC applications, polarity does not have to be observed. Maximum acceptable voltage between the conductors depends on the number of poles, circuitry and relevant standard / approval.

To UL 489:



Dimensions - UL 489 version



All dimensions without tolerances are for reference only. Weidmüller reserves the right to change specifications at any time without notice in the interest of improved design, performance and cost effectiveness.

BR Series Product Selection

x = B, C, or D Curve

(See Curve Drawings on page 9 and 10)

Amps	1 Pole Order Number		2 Pole Order Number		3 Pole Order Number	
1	BR1x1UC	MCB 489 1P x 1A ACDC	BR2x1UC	MCB 489 2P x 1A ACDC	BR3x1UC	MCB 489 3P x 1A ACDC
1.2	BR1x1.2UC	MCB 489 1P x 1.2A ACDC	BR2x1.2UC	MCB 489 2P x 1.2A ACDC	BR3x1.2UC	MCB 489 3P x 1.2A ACDC
1.5	BR1x1.5UC	MCB 489 1P x 1.5A ACDC	BR2x1.5UC	MCB 489 2P x 1.5A ACDC	BR3x1.5UC	MCB 489 3P x 1.5A ACDC
1.6	BR1x1.6UC	MCB 489 1P x 1.6A ACDC	BR2x1.6UC	MCB 489 2P x 1.6A ACDC	BR3x1.6UC	MCB 489 3P x 1.6A ACDC
2	BR1x2UC	MCB 489 1P x 2A ACDC	BR2x2UC	MCB 489 2P x 2A ACDC	BR3x2UC	MCB 489 3P x 2A ACDC
3	BR1x3UC	MCB 489 1P x 3A ACDC	BR2x3UC	MCB 489 2P x 3A ACDC	BR3x3UC	MCB 489 3P x 3A ACDC
4	BR1x4UC	MCB 489 1P x 4A ACDC	BR2x4UC	MCB 489 2P x 4A ACDC	BR3x4UC	MCB 489 3P x 4A ACDC
5	BR1x5UC	MCB 489 1P x 5A ACDC	BR2x5UC	MCB 489 2P x 5A ACDC	BR3x5UC	MCB 489 3P x 5A ACDC
6	BR1x6UC	MCB 489 1P x 6A ACDC	BR2x6UC	MCB 489 2P x 6A ACDC	BR3x6UC	MCB 489 3P x 6A ACDC
7	BR1x7UC	MCB 489 1P x 7A ACDC	BR2x7UC	MCB 489 2P x 7A ACDC	BR3x7UC	MCB 489 3P x 7A ACDC
8	BR1x8UC	MCB 489 1P x 8A ACDC	BR2x8UC	MCB 489 2P x 8A ACDC	BR3x8UC	MCB 489 3P x 8A ACDC
10	BR1x10UC	MCB 489 1P x 10A ACDC	BR2x10UC	MCB 489 2P x 10A ACDC	BR3x10UC	MCB 489 3P x 10A ACDC
12	BR1x12UC	MCB 489 1P x 12A ACDC	BR2x12UC	MCB 489 2P x 12A ACDC	BR3x12UC	MCB 489 3P x 12A ACDC
13	BR1x13UC	MCB 489 1P x 13A ACDC	BR2x13UC	MCB 489 2P x 13A ACDC	BR3x13UC	MCB 489 3P x 13A ACDC
15	BR1x15UC	MCB 489 1P x 15A ACDC	BR2x15UC	MCB 489 2P x 15A ACDC	BR3x15UC	MCB 489 3P x 15A ACDC
16	BR1x16UC	MCB 489 1P x 16A ACDC	BR2x16UC	MCB 489 2P x 16A ACDC	BR3x16UC	MCB 489 3P x 16A ACDC
20	BR1x20UC	MCB 489 1P x 20A ACDC	BR2x20UC	MCB 489 2P x 20A ACDC	BR3x20UC	MCB 489 3P x 20A ACDC
25	BR1x25UC	MCB 489 1P x 25A ACDC	BR2x25UC	MCB 489 2P x 25A ACDC	BR3x25UC	MCB 489 3P x 25A ACDC
30	BR1x30UC	MCB 489 1P x 30A ACDC	BR2x30UC	MCB 489 2P x 30A ACDC	BR3x30UC	MCB 489 3P x 30A ACDC
32	BR1x32UC	MCB 489 1P x 32A ACDC	BR2x32UC	MCB 489 2P x 32A ACDC	BR3x32UC	MCB 489 3P x 32A ACDC
35	BR1x35UC	MCB 489 1P x 35A ACDC	BR2x35UC	MCB 489 2P x 35A ACDC	BR3x35UC	MCB 489 3P x 35A ACDC
40	BR1x40UC	MCB 489 1P x 40A ACDC	BR2x40UC	MCB 489 2P x 40A ACDC	BR3x40UC	MCB 489 3P x 40A ACDC
50	BR1x50UC	MCB 489 1P x 50A ACDC	BR2x50UC	MCB 489 2P x 50A ACDC	BR3x50UC	MCB 489 3P x 50A ACDC
60	BR1x60UC	MCB 489 1P x 60A ACDC	BR2x60UC	MCB 489 2P x 60A ACDC	BR3x60UC	MCB 489 3P x 60A ACDC
63	BR1x63UC	MCB 489 1P x 63A ACDC	BR2x63UC	MCB 489 2P x 63A ACDC	BR3x63UC	MCB 489 3P x 63A ACDC

Additional current rating versions are available. Please contact your Weidmüller Sales Representative.

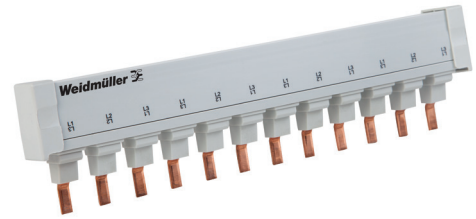


Accessories

Busbar and Busbar Accessories

Busbars UL 489 – cuttable

Busbars for the connection of circuit breakers type BRxxxUC to UL 489. The busbars of 1 meter length can individually be cut to a suitable length for the application and isolated with end caps. Depending on the control cabinet design, the supply is by means of supply terminals without increasing the installation width or by means of a terminal block directly on the rail without increasing the installation height. Three busbar models are available for use with auxiliary contact modules with a width of 9 mm.



Ordering Data

No. of Poles	No. of Devices	No. of Pins	Description	Order Number
1-Pole	12	12	MCB BUS BAR UL489 1 POLE 12 PIN	BRBB112
	18	18	MCB BUS BAR UL489 1 POLE 18 PIN	BRBB118
	57	57	MCB BUS BAR UL489 1 POLE 57 PIN	BRBB157
2-Pole	6	12	MCB BUS BAR UL489 2 POLE 12 PIN	BRBB212
	9	18	MCB BUS BAR UL489 2 POLE 18 PIN	BRBB218
	28	56	MCB BUS BAR UL489 2 POLE 56 PIN	BRBB256
3-Pole	4	12	MCB BUS BAR UL489 3 POLE 12 PIN	BRBB312
	6	18	MCB BUS BAR UL489 3 POLE 18 PIN	BRBB318
	19	57	MCB BUS BAR UL489 3 POLE 57 PIN	BRBB357
*1-Pole with Auxiliary Module Spacing	37	37	MCB BUS BAR UL489 1 POLE 37 PIN AUX	BRBB137A
**2-Pole with Auxiliary Module Spacing	23	46	MCB BUS BAR UL489 2 POLE 46 PIN AUX	BRBB246A
***3-Pole with Auxiliary Module Spacing	16	48	MCB BUS BAR UL489 3 POLE 48 PIN AUX	BRBB348A



Feeder Terminal



Bottom/Direct Feeder Terminal



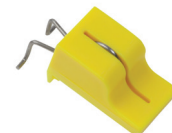
Endcap

Accessories for Busbars UL 489

Description	Order Number
Feeder Terminal, UL 489, 115 A	BRBBPWR35
Bottom/Direct Feeder Terminal, UL 489, 115 A	BRBBPWR50
Endcap for UL 489 Cuttable Busbar	BRBBECAP
Protective Cap for UL 489 cuttable busbar, 3 caps per bar	BRBBPCAP
Lock-on, Lock-off Device	LD10



Protective Cap



Lock-on, Lock-off Device

UL 1077 DIN-Rail Supplementary Circuit Breakers

SUxxxUC

SU Series Product Selection Part Number Nomenclature

(Part Number found on the front of the breaker)



SU

2

D

60

UC

AC/DC Rated

Rated Amps = 1, 1.2, 1.5, 1.6, 2, 3, 4, 5, 6, 7, 8, 10, 12, 13, 15, 16, 20, 25, 30, 32, 35, 40, 50, 60, 63

Curve = B, C or D

SU = Supplementary Protectors

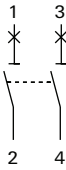
No. of Poles = 1, 2 or 3

Schematic Diagrams

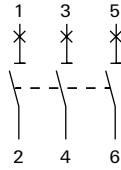
1-pole



2-pole



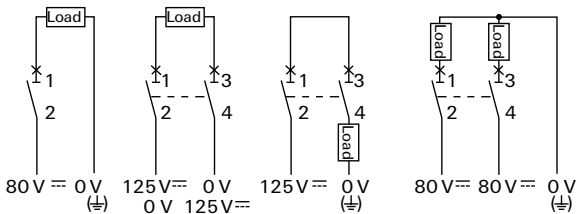
3-pole



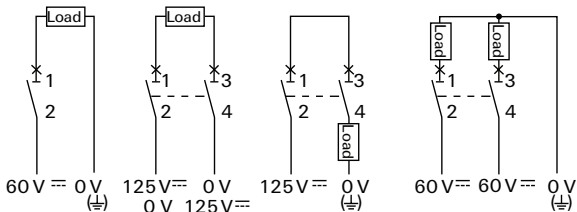
DC Application

When using the BR/SUxxxUC in DC applications, polarity does not have to be observed. Maximum acceptable voltage between the conductors depends on the number of poles, circuitry and relevant standard / approval.

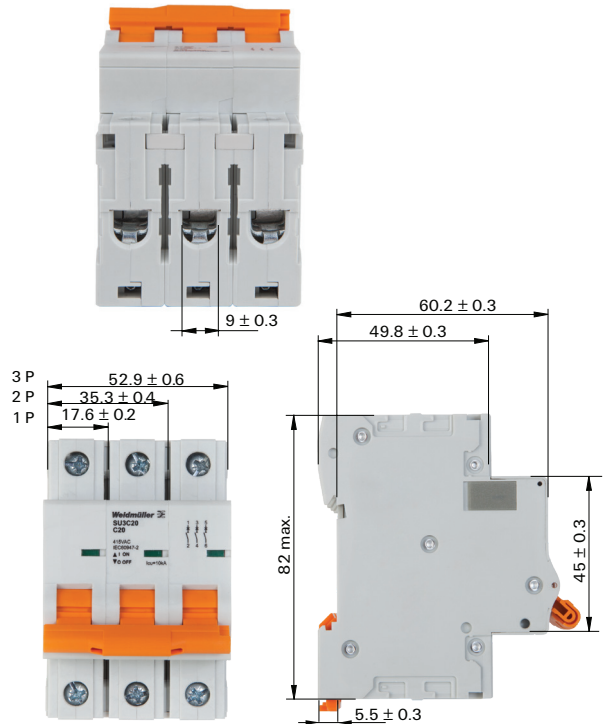
To IEC/EN 60947-2:



To UL 1077:



Dimensions – IEC/EN 60947-2 / UL1077 version



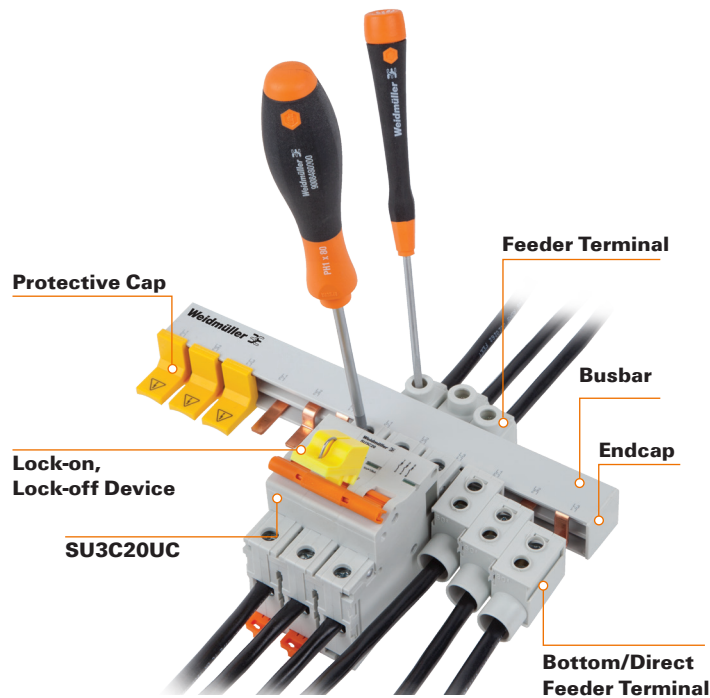
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SU Series Product Selection

x = B, C, or D Curve

(See Curve Drawings on page 9 and 10)

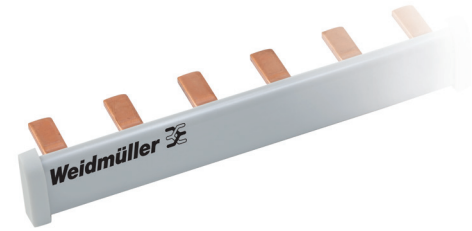
Amps	1 Pole Order Number	Description	2 Pole Order Number	Description	3 Pole Order Number	Description
1	SU1x1UC	MCB 1077 1P x 1A ACDC	SU2x1UC	MCB 1077 2P x 1A ACDC	SU3x1UC	MCB 1077 3P x 1A ACDC
1.2	SU1x1.2UC	MCB 1077 1P x 1.2A ACDC	SU2x1.2UC	MCB 1077 2P x 1.2A ACDC	SU3x1.2UC	MCB 1077 3P x 1.2A ACDC
1.5	SU1x1.5UC	MCB 1077 1P x 1.5A ACDC	SU2x1.5UC	MCB 1077 2P x 1.5A ACDC	SU3x1.5UC	MCB 1077 3P x 1.5A ACDC
1.6	SU1x1.6UC	MCB 1077 1P x 1.6A ACDC	SU2x1.6UC	MCB 1077 2P x 1.6A ACDC	SU3x1.6UC	MCB 1077 3P x 1.6A ACDC
2	SU1x2UC	MCB 1077 1P x 2A ACDC	SU2x2UC	MCB 1077 2P x 2A ACDC	SU3x2UC	MCB 1077 3P x 2A ACDC
3	SU1x3UC	MCB 1077 1P x 3A ACDC	SU2x3UC	MCB 1077 2P x 3A ACDC	SU3x3UC	MCB 1077 3P x 3A ACDC
4	SU1x4UC	MCB 1077 1P x 4A ACDC	SU2x4UC	MCB 1077 2P x 4A ACDC	SU3x4UC	MCB 1077 3P x 4A ACDC
5	SU1x5UC	MCB 1077 1P x 5A ACDC	SU2x5UC	MCB 1077 2P x 5A ACDC	SU3x5UC	MCB 1077 3P x 5A ACDC
6	SU1x6UC	MCB 1077 1P x 6A ACDC	SU2x6UC	MCB 1077 2P x 6A ACDC	SU3x6UC	MCB 1077 3P x 6A ACDC
7	SU1x7UC	MCB 1077 1P x 7A ACDC	SU2x7UC	MCB 1077 2P x 7A ACDC	SU3x7UC	MCB 1077 3P x 7A ACDC
8	SU1x8UC	MCB 1077 1P x 8A ACDC	SU2x8UC	MCB 1077 2P x 8A ACDC	SU3x8UC	MCB 1077 3P x 8A ACDC
10	SU1x10UC	MCB 1077 1P x 10A ACDC	SU2x10UC	MCB 1077 2P x 10A ACDC	SU3x10UC	MCB 1077 3P x 10A ACDC
12	SU1x12UC	MCB 1077 1P x 12A ACDC	SU2x12UC	MCB 1077 2P x 12A ACDC	SU3x12UC	MCB 1077 3P x 12A ACDC
13	SU1x13UC	MCB 1077 1P x 13A ACDC	SU2x13UC	MCB 1077 2P x 13A ACDC	SU3x13UC	MCB 1077 3P x 13A ACDC
15	SU1x15UC	MCB 1077 1P x 15A ACDC	SU2x15UC	MCB 1077 2P x 15A ACDC	SU3x15UC	MCB 1077 3P x 15A ACDC
16	SU1x16UC	MCB 1077 1P x 16A ACDC	SU2x16UC	MCB 1077 2P x 16A ACDC	SU3x16UC	MCB 1077 3P x 16A ACDC
20	SU1x20UC	MCB 1077 1P x 20A ACDC	SU2x20UC	MCB 1077 2P x 20A ACDC	SU3x20UC	MCB 1077 3P x 20A ACDC
25	SU1x25UC	MCB 1077 1P x 25A ACDC	SU2x25UC	MCB 1077 2P x 25A ACDC	SU3x25UC	MCB 1077 3P x 25A ACDC
30	SU1x30UC	MCB 1077 1P x 30A ACDC	SU2x30UC	MCB 1077 2P x 30A ACDC	SU3x30UC	MCB 1077 3P x 30A ACDC
32	SU1x32UC	MCB 1077 1P x 32A ACDC	SU2x32UC	MCB 1077 2P x 32A ACDC	SU3x32UC	MCB 1077 3P x 32A ACDC
35	SU1x35UC	MCB 1077 1P x 35A ACDC	SU2x35UC	MCB 1077 2P x 35A ACDC	SU3x35UC	MCB 1077 3P x 35A ACDC
40	SU1x40UC	MCB 1077 1P x 40A ACDC	SU2x40UC	MCB 1077 2P x 40A ACDC	SU3x40UC	MCB 1077 3P x 40A ACDC
50	SU1x50UC	MCB 1077 1P x 50A ACDC	SU2x50UC	MCB 1077 2P x 50A ACDC	SU3x50UC	MCB 1077 3P x 50A ACDC
60	SU1x60UC	MCB 1077 1P x 60A ACDC	SU2x60UC	MCB 1077 2P x 60A ACDC	SU3x60UC	MCB 1077 3P x 60A ACDC
63	SU1x63UC	MCB 1077 1P x 63A ACDC	SU2x63UC	MCB 1077 2P x 63A ACDC	SU3x63UC	MCB 1077 3P x 63A ACDC



Supplementary Breaker Accessories

Busbars UL 1077 – cuttable

Busbars for the connection of circuit breakers type SUxxxUC to UL 1077. The busbars of 1 meter length can individually be cut to a suitable length for the application and isolated with end caps. Depending on the control cabinet design, the supply is by means of supply terminals without increasing the installation width or by means of a terminal block directly on the rail without increasing the installation height. Three busbar models are available for use with auxiliary contact modules with a width of 9 mm.



Ordering Data

No. of Poles	No. of Devices	No. of Pins	Description	Order Number
1-Pole	12	12	MCB BUS BAR UL1077 1 POLE 12 PIN	SB112
	18	18	MCB BUS BAR UL1077 1 POLE 18 PIN	SB118
	57	57	MCB BUS BAR UL1077 1 POLE 57 PIN	SB157
2-Pole	6	12	MCB BUS BAR UL1077 2 POLE 12 PIN	SB212
	9	18	MCB BUS BAR UL1077 2 POLE 18 PIN	SB218
	28	56	MCB BUS BAR UL1077 2 POLE 56 PIN	SB256
3-Pole	4	12	MCB BUS BAR UL1077 3 POLE 12 PIN	SB312
	6	18	MCB BUS BAR UL1077 3 POLE 18 PIN	SB318
	19	57	MCB BUS BAR UL1077 3 POLE 57 PIN	SB357
1-Pole with Auxiliary Module Spacing	37	37	MCB BUS BAR UL1077 1 POLE 37 PIN AUX	SB1A37
2-Pole with Auxiliary Module Spacing	23	46	MCB BUS BAR UL1077 2 POLE 46 PIN AUX	SB2A46
3-Pole with Auxiliary Module Spacing	16	48	MCB BUS BAR UL1077 3 POLE 48 PIN AUX	SB3A48



1P Top Feed Terminal



2/3P Top Feed Terminal



Bottom/Direct Feeder Terminal

Top Feed Terminal

Description	Order Number
MCB BUS BAR UL1077 1P TERM TOP FEED	SPF351P
MCB BUS BAR UL1077 2/3P TERM TOP FEED	SPF35

Bottom/Direct Feeder Terminal

Description	Order Number
MCB BUS BAR UL1077 1/2/3P TERM BOT FEED	SPF50

Endcap

Description	Order Number
MCB BUS BAR UL1077 1P END CAP	SEC1P
MCB BUS BAR UL1077 2/3P END CAP	SECMP



Endcap



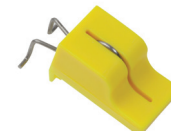
Protective Cap

Protective Cap

Description	Order Number
MCB BUS BAR UL1077 BUS CAP YEL (5 caps)	STPC

Lock-on, Lock-off Device

Description	Order Number
Lock-on, Lock-off Device	LD10



Lock-on, Lock-off Device

9926 Series Branch Circuit Breakers and Supplementary Protectors



Weidmüller's range of industrial, DIN-rail mounted circuit breakers are part of our broad electronics portfolio, which provides isolation and protection solutions for automation control systems. Compared with traditional fused protection, these compact circuit breakers can be closely tailored to the application, in order to simplify control and minimize equipment downtime in the event of a fault.

Product ratings and mechanical construction are designed to provide the high levels of reliability expected from automation and control equipment installed on capital plant, and specifications conform to recognized international standards.

Hydraulic Magnetic Branch Protection QL-9926 Series Circuit Breakers AC Version

Features and Benefits

- AC Circuit Breaker
- Hydraulic-Magnetic technology
- 100% rating capability, independent of ambient temperature
- One, two and three pole (UL). One, two, three pole and 1+N, 3+N (VDE).
- VDE and CCC approved, CE certified
- UL listed (CSA / UL 489)
- Ratings 0.1 to 25 A
- Optional Auxiliary Switch / Trip Alarm - factory fitted (6.5 mm wide)
- Optional Shunt Trip (no approvals)
- Wide range of time delays and operating currents
- Precision tripping characteristics
- Ultra compact – 13 mm wide module
- Trip indication with mid-trip handle
- Reset immediately after overload
- DIN mount product in grey shells
- Dual mount product in black shells
- Current limiting capability
- Ring terminal ready (terminal screw is removable)
- Suitable to use for electrical isolation

Overview of 9926 Series

Model QL

- AC Branch-rated circuit breakers
- UL489 Listed, CSA, VDE, CE conformity
- 1, 2 and 3 pole units (NEW)
- Ratings up to 240V/25A

Model QY

- DC Branch-rated circuit breakers
- UL489A Listed, VDE, CE conformity
- 1 and 2 pole units (NEW)
- Ratings up to 125V/60A

Model QZ

- AC Supplementary circuit breakers
- UL1077 Recognized, VDE, CE conformity, CSA
- 1, 2 and 3 pole units
- Ratings up to 277/480V/60A

Model GFCI

- AC Supplementary circuit breakers
- UL1077 and UL1053 Recognized, CE conformity
- 1 pole (+N) units
- Ratings up to 240V/63A

9926 Series Features

- For industrial AC and DC installations
- Models either for branch applications cULus (UL489/ CSA C22.2 No 5.02) approvals or supplemental cURus/ UL1077 approved /CSA C22.2 No. 235.
- Single and multi-pole models, with auxiliary/trip options
- Trip point unaffected by ambient temperature changes
- Variety of trip characteristics available, to suit equipment protected
- Narrow width on mounting rail – 13mm per pole
- GFCI models with standard ratings up to 240V/50A
- Full set of approved accessories, such as busbars, power lugs, lock-out handles



Dual mount (black body)

Long Code

Example Code: QL-AT-3(13)-D-KM-15A—Z

Group	1	2	3	4	5	6	7	8	9	10	11	12
Requirement	QL Frame	Switch / Neutral	Auxiliary + Trip Alarm	Triple pole	13 mm module width	DIN Rail	Medium delay curve KM	Current Rating 15 A	Future use	No Shunt Trip	Future use	Parallel bridged (by customer)
Long Code	QL	-	AT	3	(13)	D	KM	15A	-	-	-	Z

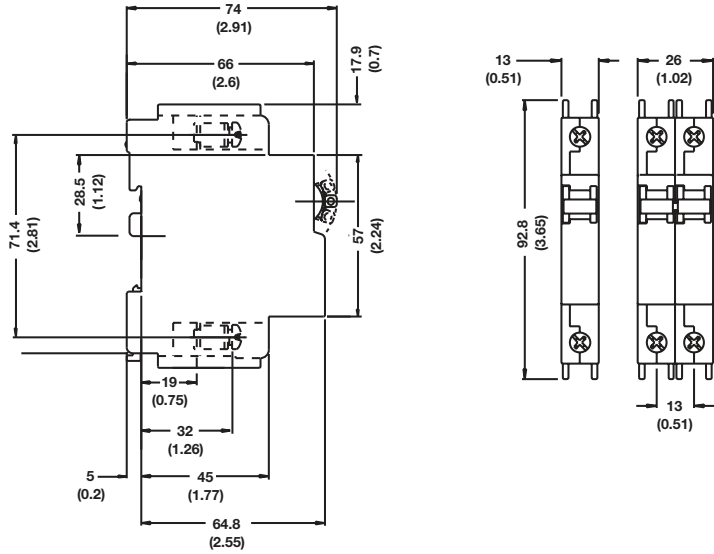
Group 1: Frame Type	Code	Description	Comments	
	QL	13 mm wide Miniature Circuit Breaker	UL 489, IEC / EN 60947-2, VDE, CE, CCC	
Group 2: Switch/Neutral	Code	Description	Comments	
	-	Not applicable	Overload poles do not have any further coding	
	N	Neutral		
Group 3: Auxiliary	Code	Description	Comments	
	-	Not applicable	Use this code if no Auxiliary used	
	A	Auxiliary Switch (1 x Aux in 1 module)	6.5 mm module fitted on right-hand side (DIN & Dual Mount)	
	T	Trip Alarm (1 x Trip Alarm in 1 module)	6.5 mm module fitted on right-hand side (Dual Mount only)	
	AT	Auxiliary Switch + Trip Alarm combo (combined in 1 module)	6.5 mm module fitted on right-hand side (Dual Mount only)	
Group 4: No of Poles	Code	Description	Comments	
	1	Single pole		
	2	Double pole	2 pole or 1+N	
	3	Triple pole		
	4	Four pole	3+N only	
Group 5: Module Width	Code	Description	Comments	
	(13)	13 mm module width	13 mm per pole	
Group 6: Mounting	Code	Description	Comments	
	D	DIN rail mount - 45 mm Escutcheon, grey body	DIN mount supplied in grey only	
	DM	Dual mount - 57 mm Escutcheon, black body	Dual mount supplied in black only	
Group 7: Time Delays	Code	Description	Instantaneous Trip Point (x In)	Comments
	1	Long time delay, high instantaneous trip	10 - 20	Orange handle
	3	Short time delay	3 - 5	White handle
	9	Long time delay	7 - 12	White handle
	KM	Medium time delay	6 - 12	White handle
	OP	Instantaneous	None	White handle
Group 8: Current Ratings	Code / Description		Comments	
	0.1, 0.2, 0.3, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 20, 25 A		Ratings available vary depending on certification * Other ratings are available as special orders. Check availability.	
Group 9:	Code	For future use (-)		
Group 10: Shunt Trip (not certified, only offered as special order)	Code	Description	Comments	
	-	Not applicable	Use this code if no Shunt Trip is used	
	VO	100 - 480 V AC	Fly leads (approximately 60 mm long)	
	VS	100 - 480 V AC	Internally connected	
Other voltages are available as special orders. Check availability.				
Group 11:	Code	For future use (-)		
Group 12: Special Termination	Code	Description	Comments	
	-	Not applicable	Use this code if no special terminations are used	
	P	Plug-in		
	Z	Bridged unit (bridge to be fitted by customer)		
	ZL	Bridged unit (factory fitted)		

9926 Series Branch Circuit Breakers (AC)

Circuit Breakers Hydraulic Magnetic Type

- 1, 2 and 3 pole versions
- 120/240 VAC, 50/60 Hz
- Up to 25A
- Just 13 mm wide, per pole
- Mounts on 35mm DIN-rail
- cULus listed according to UL489, CSA C22.2 No. 5.02, CE, VDE

Dimension Diagrams in mm (in.)



Technical Data	
Voltage	120/240 VAC, 50/60Hz
Current minimum	0.5A
Current maximum	25A
Interrupting capacity	10,000A
Dielectric strength	1500V, 50/60Hz
Insulation resistance	100 MΩ
Operating Life	10000 mechanical operations
Operating temperature	-40...+65°C
Wire size*	
*0.5-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb

Readily Available

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

**9926 Series
Single Pole**



**9926 Series
Double Pole**



**9926 Series
Triple Pole**



Type: Single Pole (up to 120 VAC)		
Current Ratings (amps)	Description	Order Number
0.5	QL-1-13-DM-KM-0.5	9926251000
1	QL-1-13-DM-KM-01	9926251001
2	QL-1-13-DM-KM-02	9926251002
3	QL-1-13-DM-KM-03	9926251003
4	QL-1-13-DM-KM-04	9926251004
5	QL-1-13-DM-KM-05	9926251005
6	QL-1-13-DM-KM-06	9926251006
7	QL-1-13-DM-KM-07	9926251007
8	QL-1-13-DM-KM-08	9926251008
10	QL-1-13-DM-KM-10	9926251010
13	QL-1-13-DM-KM-13	9926251013
15	QL-1-13-DM-KM-15	9926251015
16	QL-1-13-DM-KM-16	9926251016
20	QL-1-13-DM-KM-20	9926251020
25	QL-1-13-DM-KM-25	9926251025

Type: Double Pole (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
0.5	QL-2-13-DM-KM-0.5	9926252000
1	QL-2-13-DM-KM-01	9926252001
2	QL-2-13-DM-KM-02	9926252002
3	QL-2-13-DM-KM-03	9926252003
4	QL-2-13-DM-KM-04	9926252004
5	QL-2-13-DM-KM-05	9926252005
6	QL-2-13-DM-KM-06	9926252006
7	QL-2-13-DM-KM-07	9926252007
8	QL-2-13-DM-KM-08	9926252008
10	QL-2-13-DM-KM-10	9926252010
13	QL-2-13-DM-KM-13	9926252013
15	QL-2-13-DM-KM-15	9926252015
16	QL-2-13-DM-KM-16	9926252016
20	QL-2-13-DM-KM-20	9926252020
25	QL-2-13-DM-KM-25	9926252025

Type: Triple Pole (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-3(13)-DM-KM-1A	9926253001
2	QL-3(13)-DM-KM-2A	9926253002
5	QL-3(13)-DM-KM-5A	9926253005
10	QL-3(13)-DM-KM-10A	9926253010
15	QL-3(13)-DM-KM-15A	9926253015
20	QL-3(13)-DM-KM-20A	9926253020
25	QL-3(13)-DM-KM-25A	9926253025

9926 Series Branch Circuit Breakers (AC)

Circuit Breakers with Auxiliary switch, Trip alarm, Combination of both

- AC voltages (120/240V)
- 1, 2 and 3 pole versions
- cULus listed according to UL489 and C22.2 No. 5.02, CE, VDE
- Factory fitted auxiliary or trip alarm
- Compact 6.5mm width, per pole
- Attached to right-hand side of circuit breaker

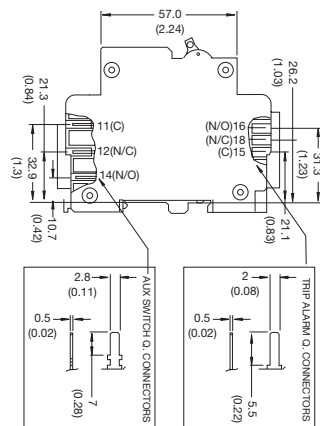
Technical Data	
Voltage	120/240 VAC, 50/60Hz
Current minimum	0.5A
Current maximum	25A
Interrupting capacity	10,000A
Dielectric strength	1500V, 50/60Hz
Insulation resistance	100 MΩ
Operating Life	10000 mechanical operations
Operating temperature	-40...+65°C
Wire size*	
0.5-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb

Approval
 cULus listed according to UL489 and C22.2 No. 5.02, CE, VDE

†UL 489 listed
 (5A, 250 VAC; 0.5A, 80 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)
 IEC 60947-5-1 Approved
 (5A, 250 VAC; 0.5A, 110 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.
 The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The order number for adhesive SchS2 is 172060000.

Dimension Diagrams in mm (in.)



9926 Series Single Pole w/ Auxiliary Contact'



Type: Single Pole Trip (up to 120 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-A-1-13-DM-KM-1	9926261001
2	QL-A-1-13-DM-KM-2	9926261002
5	QL-A-1-13-DM-KM-5	9926261005
10	QL-A-1-13-DM-KM-10	9926261010
15	QL-A-1-13-DM-KM-15	9926261015
20	QL-A-1-13-DM-KM-20	9926261020
25	QL-A-1-13-DM-KM-25	9926261025

9926 Series Double Pole w/ Auxiliary Contact'



Type: Double Pole Aux (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-A-2-13-DM-KM-1	9926262001
2	QL-A-2-13-DM-KM-2	9926262002
5	QL-A-2-13-DM-KM-5	9926262005
10	QL-A-2-13-DM-KM-10	9926262010
15	QL-A-2-13-DM-KM-15	9926262015
20	QL-A-2-13-DM-KM-20	9926262020
25	QL-A-2-13-DM-KM-25	9926262025

9926 Series Triple Pole w/ Auxiliary Contact'



Type: Triple Pole Aux (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-A-3(13)-DM-KM-1A	9926263001
2	QL-A-3-13-DM-KM-2A	9926263002
5	QL-A-3-13-DM-KM-5A	9926263005
10	QL-A-3-13-DM-KM-10A	9926263010
15	QL-A-3-13-DM-KM-15A	9926263015
20	QL-A-3-13-DM-KM-20A	9926263020
25	QL-A-3-13-DM-KM-25A	9926263025

9926 Series Single Pole Trip (Alarm Contact)



Type: Single Pole Trip (up to 120 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-T-1-13-DM-KM-1	9926271001
2	QL-T-1-13-DM-KM-2	9926271002
5	QL-T-1-13-DM-KM-5	9926271005
10	QL-T-1-13-DM-KM-10	9926271010
15	QL-T-1-13-DM-KM-15	9926271015
20	QL-T-1-13-DM-KM-20	9926271020
25	QL-T-1-13-DM-KM-25	9926271025

9926 Series Double Pole Trip (Alarm Contact)



Type: Double Pole Trip (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-T-2-13-DM-KM-1	9926272001
2	QL-T-2-13-DM-KM-2	9926272002
5	QL-T-2-13-DM-KM-5	9926272005
10	QL-T-2-13-DM-KM-10	9926272010
15	QL-T-2-13-DM-KM-15	9926272015
20	QL-T-2-13-DM-KM-20	9926272020
25	QL-T-2-13-DM-KM-25	9926272025

9926 Series Triple Pole Trip (Alarm Contact)



Type: Triple Pole Trip (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-T-3(13)-DM-KM-1A	9926273001
2	QL-T-3(13)-DM-KM-2A	9926273002
5	QL-T-3(13)-DM-KM-5A	9926273005
10	QL-T-3(13)-DM-KM-10A	9926273010
15	QL-T-3(13)-DM-KM-15A	9926273015
20	QL-T-3(13)-DM-KM-20A	9926273020
25	QL-T-3(13)-DM-KM-25A	9926273025

9926 Series Single Pole Combination (Auxiliary & Alarm Contact)'



Type: Triple Pole (up to 120 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-AT-1-13-DM-KM-1	9926281001
2	QL-AT-1-13-DM-KM-2	9926281002
5	QL-AT-1-13-DM-KM-5	9926281005
10	QL-AT-1-13-DM-KM-10	9926281010
15	QL-AT-1-13-DM-KM-15	9926281015
20	QL-AT-1-13-DM-KM-20	9926281020
25	QL-AT-1-13-DM-KM-25	9926281025

9926 Series Double Pole Combination (Auxiliary & Alarm Contact)'



Type: Double Pole Combo (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-AT-2-13-DM-KM-1	9926282001
2	QL-AT-2-13-DM-KM-2	9926282002
5	QL-AT-2-13-DM-KM-5	9926282005
10	QL-AT-2-13-DM-KM-10	9926282010
15	QL-AT-2-13-DM-KM-15	9926282015
20	QL-AT-2-13-DM-KM-20	9926282020
25	QL-AT-2-13-DM-KM-25	9926282025

9926 Series Triple Pole Combination (Auxiliary & Alarm Contact)'



Type: Triple Pole Combo (up to 240 VAC)		
Current Ratings (amps)	Description	Order Number
1	QL-AT-3(13)-DM-KM-1A	9926283001
2	QL-AT-3(13)-DM-KM-2A	9926283002
5	QL-AT-3(13)-DM-KM-5A	9926283005
10	QL-AT-3(13)-DM-KM-10A	9926283010
15	QL-AT-3(13)-DM-KM-15A	9926283015
20	QL-AT-3(13)-DM-KM-20A	9926283020
25	QL-AT-3(13)-DM-KM-25A	9926283025

Common Applications:

- AC branch circuit protection (UL 489, IEC / EN 60847-2)
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Power conditioning equipment

**9926 (QL) Series Miniature Circuit Breaker Technical Data**

Approvals	IEC / EN 60947-2, VDE				
Number of Poles	1	2 (1+N)	2	3	4(3+N)
Operating Voltages	240 V AC		415 V AC		
Minimum Current Rating	0.1 A				
Maximum Current Rating	25 A				
Interrupting Capacity	6 kA				
Operating Temperature Range	-40°C to +85°C				
Mounting Options	DIN Rail, Dual mounting (DIN & Mini), surface mounting clip				
Time Delay Curves	1, 3, 9, KM, OP				

Approvals	UL 489			
Number of Poles	1	1	2	3
Operating Voltages	120 V AC	240 V AC	120 / 240 V AC	240 V AC
Minimum Current Rating	0.1 A			
Maximum Current Rating	25 A	20 A	25 A	25 A
Interrupting Capacity	10 kA	5 kA	10 kA	5 kA
Operating Temperature Range	-40°C to +85°C			
Mounting Options	DIN Rail, Dual mounting (DIN & Mini), surface mounting clip			
Time Delay Curves	1, 3, 9, KM, OP			

Approvals	CCC		
Number of Poles	1	2 (1+N)	2
Operating Voltages	240 V AC	240 V AC	240 V AC
Minimum Current Rating	0.1 A		
Maximum Current Rating	25 A	25 A	25 A
Interrupting Capacity	6 kA		
Operating Temperature Range	-40°C to +85°C		
Mounting Options	DIN Rail, Dual mounting (DIN & Mini), surface mounting clip		
Time Delay Curves	1, 3, 9, KM, OP		

Breaker QL	Wire Size mm ² (IEC)	Wire Gauge (UL)	Torque (IEC)	Torque (UL)	Comments
1 Pole & 2 Pole	0.75 - 35 mm ²	18 - 2 - AWG	2.5 Nm	20 in-lb	Pozidriv #2 Combi head

QY-9926 Series Circuit Breakers DC Version

Features and Benefits

- DC Circuit Breaker
- Hydraulic-Magnetic Technology
- 100% Rating Capability Independent of Ambient Temperature
- Up to Two Poles (Four Poles Parallel)
- VDE, CE and CCC approved, UL Listed (UL 489A)
- Ratings up to 200A
- Optional Auxiliary / Trip Alarm Switch - Factory Fitted
- Optional Shunt Trip
- Wide Range of Time Delays and Operating Currents
- Precision Tripping
- Ultra Compact – 13mm Width Module
- Trip Indication with Mid-Trip Handle
- Reset Immediately After Overload



QY Series

Product Type	Circuit Breaker	Circuit Breaker	Circuit Breaker
Approvals	UL 489A, IEC / EN 60947-2, VDE, CE	UL 489A	CCC
Number of Poles	1,2 2,3,4p 2p series	4p series	1p parallel 2p parallel 3p parallel
Operating Voltages	80VDC, 125VDC, 250VDC	600VDC	80 VDC
Minimum Current Rating	0.1A	0.5A	0.1A
Maximum Current Rating	200A	20A	200A
Interrupting Capacity	10kA	2.5kA	10kA
Operating Temperature Range	-40°C - +65°C		
Mounting Options	DIN Rail, Dual Mounting (DIN & Mini), Surface mounting clip, Plug-in terminal		
Tripping Curves	1, 9, U2, U3, OP		

Breaker QY	Wire Size UL	Wire Size mm ²	Torque	Comments
1 Pole & 2 Pole	2 - AWG	35mm ²	28 in-lb	Pozi driv #2 Screw head
	14-6 – AWG	2.5 -16mm ²	20 in-lb	
	16 – AWG	1.5mm ²		
	18 – AWG	0.75mm ²		
2 Pole Parallel		50mm ²	28 in-lb	Bridge Terminal
3 Pole Parallel	14 - 1/0 – AWG	70mm ²	50 in-lb	Bridge Terminal
4 Pole Parallel		95mm ²	50 in-lb	Bridge Terminal

Accessories for QL and QY series

Type	Order Number
Bus-bar (1 pole, insulated, 1 m)	67101904
Bus-bar (2 pole, insulated, 1 m)	67101972
Bus-bar end cap, 1 pole	67101973
Bus-bar end cap, 2 pole	67101974
Power lug, straight (14 mm)	67101960
Power lug, 90° (14 mm)	67101961
Power lug, straight (32 mm)	67102480
Power lug, 90° (32 mm)	67102479
Lock-out handle	67101913

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit).

The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The part number for adhesive SchS2 is **1720600000**.

9926 Series Branch Circuit Breakers - DC Version

Circuit Breakers

Hydraulic Magnetic Type

- Single and double pole versions
- U2 trip curve for general purpose applications
- 80 and 125 VDC
- Up to 60A
- Just 13 mm wide, per pole
- Mounts on 35 mm DIN-rail
- UL 489A listed and VDE approval

Technical Data	
Voltage	120/240 VAC, 50/60Hz
Current minimum	0.5A
Current maximum	60A
Interrupting capacity	10,000A
Dielectric strength	1500V, 50/60Hz
Insulation resistance	100 MΩ
Operating Life	10000 mechanical operations
Operating temperature	-40...+65°C
Wire size*	
1-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb

Approval	
UL listed to UL489	

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The part number for adhesive SchS2 is **1720600000**.

Accessories

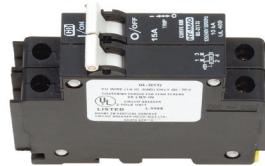
Type	Order Number
Bus-bar (1 pole, insulated, 1 m)	67101904
Bus-bar end cap, 1 pole	67101973
Power lug, straight (14 mm)	67101960
Power lug, 90° (14 mm)	67101961
Power lug, straight (32 mm)	67102480
Power lug, 90° (32 mm)	67102479
Lock-out handle	67101913

9926 Series
Single Pole
(80 VDC)



Type: Single Pole (80 VDC)		
Current Ratings (amps)	Description	Order Number
0.5	QY-1-13-DM-U2-0.5	9926251900
1	QY-1-13-DM-U2-01	9926251901
2	QY-1-13-DM-U2-02	9926251902
3	QY-1-13-DM-U2-03	9926251903
4	QY-1-13-DM-U2-04	9926251904
5	QY-1-13-DM-U2-05	9926251905
10	QY-1-13-DM-U2-10	9926251910
15	QY-1-13-DM-U2-15	9926251915
20	QY-1-13-DM-U2-20	9926251920
25	QY-1-13-DM-U2-25	9926251925
30	QY-1-13-DM-U2-30	9926251930
35	QY-1-13-DM-U2-35	9926251935
40	QY-1-13-DM-U2-40	9926251940
45	QY-1-13-DM-U2-45	9926251945
50	QY-1-13-DM-U2-50	9926251950
60	QY-1-13-DM-U2-60	9926251960
80	QT-1(26)-DM-2-80-BO-80V-10kA (80A)	9926302080
100	QT-1(26)-DM-2-100-BO-80V-10kA	9926302100
125	QT-1(26)-DM-2-125-BO-80V-10kA (125A)	9926302125

9926 Series
Double Pole
(80 VDC)



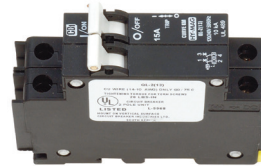
Type: Double Pole (80 VDC)		
Current Ratings (amps)	Description	Order Number
5	QY-2-13-DM-U2-5A	9926252905
10	QY-2-13-DM-U2-10A	9926252910
15	QY-2-13-DM-U2-15A	9926252915
16	QY-2-13-DM-U2-16A	9926252916
20	QY-2-13-DM-U2-20A	9926252920
40	QY-2-13-DM-U2-40A	9926252940

9926 Series
Single Pole
(125 VDC)



Type: Single Pole (125 VDC)		
Current Ratings (amps)	Description	Order Number
1	QY-1-13-DM-U2-01-B1	9926251801
2	QY-1-13-DM-U2-02-B1	9926251802
3	QY-1-13-DM-U2-03-B1	9926251803
4	QY-1-13-DM-U2-04-B1	9926251804
5	QY-1-13-DM-U2-05-B1	9926251805
10	QY-1-13-DM-U2-10-B1	9926251810
15	QY-1-13-DM-U2-15-B1	9926251815
20	QY-1-13-DM-U2-20-B1	9926251820
25	QY-1-13-DM-U2-25-B1	9926251825
30	QY-1-13-DM-U2-30-B1	9926251830
35	QY-1-13-DM-U2-35-B1	9926251835
40	QY-1-13-DM-U2-40-B1	9926251840
45	QY-1-13-DM-U2-45-B1	9926251845
50	QY-1-13-DM-U2-50-B1	9926251850
60	QY-1-13-DM-U2-60-B1	9926251860

9926 Series
Double Pole
(125 VDC)



Type: Double Pole (125 VDC)		
Current Ratings (amps)	Description	Order Number
5	QY-2-13-DM-U2-5A-B1	9926252805
10	QY-2-13-DM-U2-10A-B1	9926252810
15	QY-2-13-DM-U2-15A-B1	9926252815
20	QY-2-13-DM-U2-20A-B1	9926252820
30	QY-2-13-DM-U2-30A-B1	9926252830
32	QY-2-13-DM-U2-32A-B1	9926252832
40	QY-2-13-DM-U2-40A-B1	9926252840
50	QY-2-13-DM-U2-50A-B1	9926252850
60	QY-2-13-DM-U2-60A-B1	9926252860



Hydraulic Magnetic Supplementary Protection QZ-9926 Series Circuit Breakers AC Version

- AC Circuit Breaker
- Hydraulic-Magnetic Technology
- 100% Rating Capability Independent of Ambient Temperature
- Up to Four Poles
- CSA, VDE and CE Approved
- UL Recognized (UL 1077)
- Ratings up to 60A
- Optional Auxiliary / Trip Alarm Switch - Factory Fitted
- Wide Range of Time Delays and Operating Currents
- Precision Tripping
- Current Limiting Capabilities
- Ultra Compact – 13mm Width Module
- Trip Indication with Mid-Trip Handle
- Reset Immediately After Overload



QZ Series

Technical Data

Voltage	120/240 VAC, 50/60Hz
Current minimum	0.5A
Current maximum	60A
Interrupting capacity	5 kA @ 277/480 V, 5 kA @ 120 V, 5 kA @ 240 V
Dielectric strength	1500V, 50/60Hz
Insulation resistance	100 MΩ
Operating Life	10000 mechanical operations
Operating temperature	-40...+65°C

Wire size*	
1-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb

Approval

*UL 1077 Recognized, VDE (EN 60947-2) Approved, cURus (CSA C22.2 No. 235), CE Marked

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The part number for adhesive SchS2 is **1720600000**.

*cURus recognized to UL1077 and C22.2 No. 235

9926 Series
Single Pole



9926 Series
Double Pole



9926 Series
Triple Pole



Type: Single Pole (up to 277 VAC)

Current Ratings (amps)	Description	Order Number
1	QZ-1-13-D-2-01	9926251501
2	QZ-1-13-D-2-02	9926251502
3	QZ-1-13-D-2-03	9926251503
4	QZ-1-13-D-2-04	9926251504
5	QZ-1-13-D-2-05	9926251505
6	QZ-1-13-D-2-06	9926251506
8	QZ-1-13-D-2-08	9926251508
10	QZ-1-13-D-2-10	9926251510
15	QZ-1-13-D-2-15	9926251515
20	QZ-1-13-D-2-20	9926251520
25	QZ-1-13-D-2-25	9926251525
35	QZ-1-13-D-2-35	9926251535
40	QZ-1-13-D-2-40	9926251540
50	QZ-1-13-D-2-50	9926251550
60	QZ-1-13-D-2-60	9926251560

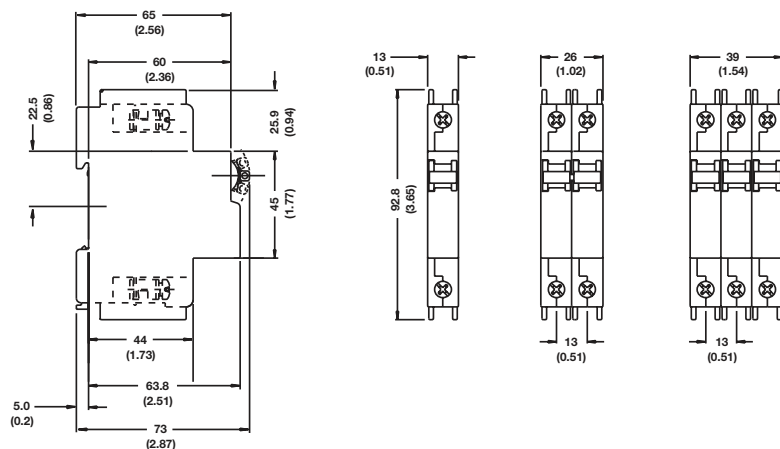
Type: Double Pole (up to 480 VAC)

Current Ratings (amps)	Description	Order Number
1	QZ-2-13-D-2-01	9926252501
2	QZ-2-13-D-2-02	9926252502
4	QZ-2-13-D-2-04	9926252504
5	QZ-2-13-D-2-05	9926252505
6	QZ-2-13-D-2-06	9926252506
10	QZ-2-13-D-2-10	9926252510
15	QZ-2-13-D-2-15	9926252515
20	QZ-2-13-D-2-20	9926252520
25	QZ-2-13-D-2-25	9926252525
30	QZ-2-13-D-2-30	9926252530
35	QZ-2-13-D-2-35	9926252535
40	QZ-2-13-D-2-40	9926252540
50	QZ-2-13-D-2-50	9926252550
60	QZ-2-13-D-2-60	9926252560

Type: Triple Pole (up to 480 VAC)

Current Ratings (amps)	Description	Order Number
10	QZ-3-13-D-2-10	9926253510
15	QZ-3-13-D-2-15	9926253515
20	QZ-3-13-D-2-20	9926253520
25	QZ-3-13-D-2-25	9926253525
30	QZ-3-13-D-2-30	9926253530
40	QZ-3-13-D-2-40	9926253540
50	QZ-3-13-D-2-50	9926253550
60	QZ-3-13-D-2-60	9926253560

Dimension Diagrams in mm (in.)



Accessories

Type	Order Number
Bus-bar (1 pole, insulated, 1 m)	67101904
Bus-bar (2 pole, insulated, 1 m)	67101972
Bus-bar (3 pole, insulated, 1 m)	67101971
Bus-bar end cap, 1 pole	67101973
Bus-bar end cap, 2 pole or 3 pole	67101974
Power lug, straight (14 mm)	67101960
Power lug, 90° (14 mm)	67101961
Power lug, straight (32 mm)	67102480
Power lug, 90° (32 mm)	67102479
Lock-out handle	67101913

9926 Series Supplementary Breakers with Contacts

Circuit Breakers Auxiliary switch, Trip alarm, Combination of both

- AC Voltages 277/480V
- Trip curve 2 for general purpose applications
- UL 1077 recognized
- VDE approved and CE marked
- Just 13 mm wide
- Mounts to 35 mm DIN-rail
- Factory fitted auxiliary or trip alarm
- Single, double and triple pole versions

Technical Data	
Voltage	120/240 VAC, 50/60Hz
Current minimum	0.5A
Current maximum	60A
Interrupting capacity	5 kA @ 277/480 V, 5 kA @ 120 V, 5 kA @ 240 V
Dielectric strength	1500 V, 50/60 Hz
Insulation resistance	100 MΩ
Operating Life	10000 mechanical operations
Operating temperature	-40...+65°C
Wire size*	
0.5-15A:	14AWG min., 10AWG max.
20-25A:	10AWG min.
Torque	20 in.-lb

Approval
UL 1077 Recognized, VDE (EN 60947-2) Approved, cURus (CSA C22.2 No. 235), CE Marked

UL 489 listed
(5A, 250 VAC; 0.5A, 80 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)
IEC 60947-5-1 Approved
(5A, 250 VAC; 0.5A, 110 VDC Auxiliary; 0.5A, 125 VDC Trip Alarm)

*Wire sizes: gauges specified are the minimum allowable as per CSA and UL standards.

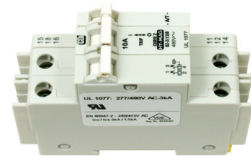
The 9926 circuit breakers do not have provisions for marking tags. A possible solution is to cut the adhesive SchS2 tag rail to length (approximately 20 mm on a single pole unit so the current rating remains visible or approximately 30 mm on a two pole unit). The SchS2 accepts DEK, WS and ESG 8/17 marking tags. The part number for adhesive SchS2 is **1720600000**.

9926 Series Single Pole w/ Auxiliary Contact[†]



Type: Single Pole Aux (up to 277 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-A-1-13-D-2-01	9926261501
2	QZ-A-1-13-D-2-02	9926261502
5	QZ-A-1-13-D-2-05	9926261505
10	QZ-A-1-13-D-2-10	9926261510
15	QZ-A-1-13-D-2-15	9926261515
20	QZ-A-1-13-D-2-20	9926261520
25	QZ-A-1-13-D-2-25	9926261525

9926 Series Double Pole w/ Auxiliary Contact[†]



Type: Double Pole Aux (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-A-2-13-D-2-01	9926262501
2	QZ-A-2-13-D-2-02	9926262502
5	QZ-A-2-13-D-2-05	9926262505
10	QZ-A-2-13-D-2-10	9926262510
15	QZ-A-2-13-D-2-15	9926262515
20	QZ-A-2-13-D-2-20	9926262520
25	QZ-A-2-13-D-2-25	9926262525

9926 Series Triple Pole w/ Auxiliary Contact[†]



Type: Triple Pole Aux (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-A-3-13-D-2-01	9926263501
2	QZ-A-3-13-D-2-02	9926263502
5	QZ-A-3-13-D-2-05	9926263505
10	QZ-A-3-13-D-2-10	9926263510
15	QZ-A-3-13-D-2-15	9926263515
20	QZ-A-3-13-D-2-20	9926263520
25	QZ-A-3-13-D-2-25	9926263525

9926 Series Single Pole Trip (Alarm Contact)



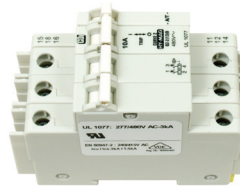
Type: Single Pole Trip (up to 277 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-T-1-13-D-2-01	9926271501
2	QZ-T-1-13-D-2-02	9926271502
5	QZ-T-1-13-D-2-05	9926271505
10	QZ-T-1-13-D-2-10	9926271510
15	QZ-T-1-13-D-2-15	9926271515
20	QZ-T-1-13-D-2-20	9926271520
25	QZ-T-1-13-D-2-25	9926271525

9926 Series Double Pole Trip (Alarm Contact)



Type: Double Pole Trip (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-T-2-13-D-2-01	9926272501
2	QZ-T-2-13-D-2-02	9926272502
5	QZ-T-2-13-D-2-05	9926272505
10	QZ-T-2-13-D-2-10	9926272510
15	QZ-T-2-13-D-2-15	9926272515
20	QZ-T-2-13-D-2-20	9926272520
25	QZ-T-2-13-D-2-25	9926272525

9926 Series Triple Pole Trip (Alarm Contact)



Type: Triple Pole Trip (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-T-3-13-D-2-01	9926273501
2	QZ-T-3-13-D-2-02	9926273502
5	QZ-T-3-13-D-2-05	9926273505
10	QZ-T-3-13-D-2-10	9926273510
15	QZ-T-3-13-D-2-15	9926273515
20	QZ-T-3-13-D-2-20	9926273520
25	QZ-T-3-13-D-2-25	9926273525

9926 Series Single Pole Combination (Auxiliary & Alarm Contact)[†]



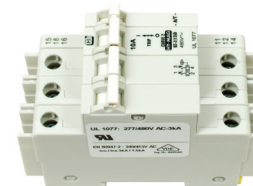
Type: Single Pole Combo (up to 277 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-AT-1-13-D-2-01	9926281501
2	QZ-AT-1-13-D-2-02	9926281502
5	QZ-AT-1-13-D-2-05	9926281505
10	QZ-AT-1-13-D-2-10	9926281510
15	QZ-AT-1-13-D-2-15	9926281515
20	QZ-AT-1-13-D-2-20	9926281520
25	QZ-AT-1-13-D-2-25	9926281525

9926 Series Double Pole Combination (Auxiliary & Alarm Contact)[†]



Type: Double Pole Combo (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-AT-2-13-D-2-01	9926282501
2	QZ-AT-2-13-D-2-02	9926282502
5	QZ-AT-2-13-D-2-05	9926282505
10	QZ-AT-2-13-D-2-10	9926282510
15	QZ-AT-2-13-D-2-15	9926282515
20	QZ-AT-2-13-D-2-20	9926282520
25	QZ-AT-2-13-D-2-25	9926282525

9926 Series Triple Pole Combination (Auxiliary & Alarm Contact)[†]



Type: Triple Pole Combo (up to 480 VAC)		
Current Ratings (amps)	Description	Order Number
1	QZ-AT-3-13-D-2-01	9926283501
2	QZ-AT-3-13-D-2-02	9926283502
5	QZ-AT-3-13-D-2-05	9926283505
10	QZ-AT-3-13-D-2-10	9926283510
15	QZ-AT-3-13-D-2-15	9926283515
20	QZ-AT-3-13-D-2-20	9926283520
25	QZ-AT-3-13-D-2-25	9926283525

QF-9926 Series Circuit Breakers Ground Fault Interrupt Version



Features

- CE approved
- UL1077 and UL1053 recognized
- Small frame size (26mm wide)
- Single pole plus switched neutral ground leakage protection
- Trip point is unaffected by ambient temperature
- Current ratings up to 50A
- Trip indication (mid-trip handle position)
- Trip curve 2 for general purpose applications

9926 Series GFCI

Type: Triple Pole (up to 480 VAC)		
Current Ratings (amps)	Description	Part No.
5	QF17A2505 - CB W/GFI	9926291105
10	QF17A2510 - CB W/GFI	9926291110
15	QF17A2515 - CB W/GFI	9926291115
20	QF17A2520 - CB W/GFI	9926291120
25	QF17A2525 - CB W/GFI	9926291125
30	QF17A2530 - CB W/GFI	9926291130
50	QF17A2550 - CB W/GFI	9926291150

Technical Data

Product Type	QF17A
Standard Ampere Ratings (A)	5 to 63A
Sensitivity (mA)	30 (CE) / 22 (UL)
Number of Poles	1 + N
Equipment Type	Earth Leakage/GFCIS
Rated Voltage (V)	230 (CE) / 240 (UL)
Rated Interrupting/	5 kA
Withstand Capacity (kA)	-
Weight (kg)	0,26
Tripping Curves(1) (standard)	2
Operating Temperature	-40 to +60°C

Supplemental Circuit Protection

CB 4200 Series

- Push button style trip/reset function
- UL 1077 recognized
- CSA C22.2 No. 235
- Available in single- and double-pole versions; 12.5mm per pole
- Applicable current range: 0.10A - 16.0A, up to 65 VDC and 250 VAC

Internal Resistance Per Pole (Ohms)	Current	Single Pole	Double Pole
131.0	0.1 A	9104173500	9120353500
40.0	0.2 A	9104183500	9124243500
19.3	0.3 A	9129813500	9124263500
10.40	0.4 A	9124093500	9124273500
7.1	0.5 A	9101003500	9129583500
4.3	0.6 A	9124113500	9124283500
3.58	0.7 A	9129563500	9124293500
2.5	0.8 A	9101103500	9129593500
1.67	1 A	9101203500	9129613500
1.22	1.2 A	9101303500	9129623500
0.61	1.5 A	9101403500	9129633500
0.55	1.8 A	9124143500	9124333500
0.38	2 A	9101503500	9129643500
0.24	2.5 A	9101603500	9129653500
0.19	3 A	9101703500	9129663500
0.16	3.5 A	9124163500	9124343500
0.09	4 A	9104353500	9129713500
0.09	4.5 A	9124173500	9124353500
0.061	5 A	9101803500	9129673500
0.07	5.5 A	9107833500	9124363500
0.041	6 A	9103813500	9124373500
0.04	6.5 A	9120043500	9124383500
0.034	7 A	9104153500	9124393500
0.02	8 A	9103003500	9104673500
0.02	9 A	9104613500	9124423500
<0.02	10 A	9101903500	9129683500
<0.02	11 A	9124183500	9124433500
<0.02	12 A	9107843500	9124443500
<0.02	13 A	9124193500	9124453500
<0.02	14 A	9107853500	9124463500
<0.02	15 A	9102003500	9129693500
<0.02	16 A	9124213500	9124473500



CB 4200 Series

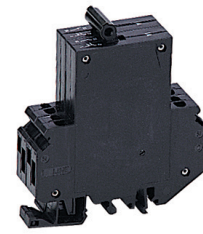


CB 4200 Series 2 Pole

Supplemental Circuit Protection

CB 2200 Series

- Lever style trip/reset breaker
- UL 1077 recognized
- CSA C22.2 No. 235
- Available in single-, double-, and triple-pole versions; 12.5mm per pole
- Applicable current ranges: 0.05A...32.0A, up to 65 VDC, 277/480 VAC
- Available in normally open (N/O) and normally closed (N/C) auxiliary contacts



CB 2200 Series

Current	Single Pole** Order Number	Double Pole** Order Number	Triple Pole** Order Number	Single Pole* N/O Aux. Order Number	Double Pole N/O-N/C Order Number	Triple Pole N/O-N/C Order Number
0.1 A	9911010000	9912010000	9913010000	9911010005	9912010003	9913010003
0.2 A	9911020000	9912020000	9913020000	9911020005	9912020003	9913020003
0.3 A	9911030000	9912030000	9913030000	9911030005	9912030003	9913030003
0.4 A	9911040000	9912040000	9913040000	9911040005	9912040003	9913040003
0.5 A	9911050000	9912050000	9913050000	9911050005	9912050003	9913050003
0.6 A	9911060000	9912060000	9913060000	9911060005	9912060003	9913060003
0.8 A	9911080000	9912080000	9913080000	9911080005	9912080003	9913080003
1 A	9911100000	9912100000	9913100000	9911100005	9912100003	9913100003
1.5 A	9911150000	9912150000	9913150000	9911150005	9912150003	9913150003
2 A	9911200000	9912200000	9913200000	9911200005	9912200003	9913200003
2.5 A	9911250000	9912250000	9913250000	9911250005	9912250003	9913250003
3 A	9911300000	9912300000	9913300000	9911300005	9912300003	9913300003
4 A	9911400000	9912400000	9913400000	9911400005	9912400003	9913400003
5 A	9911500000	9912500000	9913500000	9911500005	9912500003	9913500003
6 A	9911600000	9912600000	9913600000	9911600005	9912600003	9913600003
8 A	9911800000	9912800000	9913800000	9911800005	9912800003	9913800003
10 A	9921100000	9922100000	9923100000	9921100005	9922100003	9923100003
12 A	9921120000	9922120000	9923120000	9921120005	9922120003	9923120003
15 A	9921150000	9922150000	9923150000	9921150005	9922150003	9923150003
16 A	9921160000	9922160000	9923160000	9921160005	9922160003	9923160003
18 A	9921180000	9922180000	9923180000	9921180005	9922180003	9923180003
20 A	9921200000	9922200000	9923200000	9921200005	9922200003	9923200003
25 A	9921250000	9922250000	9923250000	9921250005		
32 A	9921320000	9922320000	9923320000	9921320005		

**All Order Numbers with N/C Auxiliary Contacts on each pole when the main breaker contact is open (in the OFF position)

Electronic Circuit Protection

ESX10-T

- Selective load protection, electronic trip characteristics
- Active current limitation for safe connection of capacitive loads up to 20,000 µF and on overload/short circuit
- Current ratings 0.5 A... 12 A
- Reliable overload disconnection with $1.1 \times I_N$ plus, even with long load lines or small cable cross sections
- Manual ON/OFF button (S1)
- Control input IN+ for remote ON/OFF signal (option)
- Electronic reset input RE (option)
- Clear status and failure indication through LED, status output SF or Si contact F
- Integral fail-safe element adjusted to current rating
- Width per unit only 12.5 mm
- Rail mounting
- Ease of wiring through busbar LINE+ and 0 V as well as signal bars and bridges
- UL/CSA Hazardous area approved – Class 1, Div 2



ESX10-T

Approvals

Authority	Voltage Rating	Current Ratings
UL2367 (E306740)	24 VDC	0.5...12 A
UL1604 (E322549) (class 1, div. 2, group A, B, C, D)	24 VDC	0.5...12 A
UL508/ cUL 508	24 VDC	0.5...12 A
CSA file 165971: CSA C22.2 No: 213 (class I, div. 2) Groups A, B, C, D, T5	24 VDC	0.5...12 A
CSA C22.2 No: 142	24 VDC	0.5...12 A

Class 2
Meets requirements for Class 2 current limitation ESX10-T... 0.5 A / 1 A / 2 A / 3 A

Ordering Information

Version	Signal Input			Signal Output					
				Signal Contact		Status Output			
	Without Signal Input	Control Input ON/OFF Reset	Remote Reset	Without Signal Output	Single Signal N/O (normally open NO)	Single Signal N/C (normally closed NC)	Without Signal Output	Status OUT Positive 24V = OK	Status OUT ØV = OK
ESX10-TA-100	x			x			x		
ESX10-TB-114		x						x	
ESX10-TB-124			x	x				x	

Current Rating (amps)	Circuit Protection Order Number	Current Rating (amps)	Control Input Order Number	Current Rating (amps)	Reset Input Order Number
ESX10-TA-100		ESX10-TB-114¹		ESX10-TB-124²	
0.5	6720005305	0.5	6720005360	0.5	6720005380
1	6720005301	1	6720005361	1	6720005381
2	6720005302	2	6720005362	2	6720005382
3	6720005303	3	6720005363	3	6720005383
4	6720005304	4	6720005364	4	6720005384
6	6720005306	6	6720005366	6	6720005386
8	6720005308	8	6720005368	8	6720005388
10	6720005310	10	6720005370	10	6720005390
12	6720005312	12	6720005372	12	6720005392

¹ Control force input on/off

² Reset input only to reset under fault conditions

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