Circuit Breakers

wieland

Excerpt from Master Catalogue
Circuit Breakers

Specifically For You

Thermal-Magnetic Circuit Breakers
Branch Protection, Trip Curve C

selos

DIN rail mount, thermal/magnetic circuit breakers. Their compact dimensions, ease of mounting and excellent performance make them ideal for the overload and short circuit protection of control components and associated wiring.

Approved to UL 489 / CSA No. 5 for Branch Applications

Trip Curve C

Type	MCB-B-1P	MCB-B-2P	MCB-B-3P
Size	1 pole	2 Pole	3 Pole
Wire Size	18 - 3 AWG	18 - 3 AWG	18 - 3 AWG
Voltage	480 / 277 / 240 Vac	480 / 277 / 240 Vac	480 / 277 / 240 Vac
Amperage	0.5 - 63 A	0.5 - 63 A	0.5 - 63 A
Width	17.5 mm	35 mm	52.5 mm
Approvals			
0.5 Amp	34.223.5100.5	34.223.5200.5	34.223.5300.5
1 Amp	34.223.5101.0	34.223.5201.0	34.223.5301.0
2 Amp	34.223.5102.0	34.223.5202.0	34.223.5302.0
3 Amp	34.223.5103.0	34.223.5203.0	34.223.5303.0
4 Amp	34.223.5104.0	34.223.5204.0	34.223.5304.0
5 Amp	34.223.5105.0		
6 Amp	34.223.5106.0	34.223.5206.0	34.223.5306.0
8 Amp	34.223.5108.0	34.223.5208.0	34.223.5308.0
10 Amp	34.223.5110.0	34.223.5210.0	34.223.5310.0
13 Amp	34.223.5113.0	34.223.5213.0	34.223.5313.0
15 Amp	34.223.5115.0	34.223.5215.0	34.223.5315.0
16 Amp	34.223.5116.0	34.223.5216.0	34.223.5316.0
20 Amp	34.223.5120.0	34.223.5220.0	34.223.5320.0
25 Amp	34.223.5125.0	34.223.5225.0	34.223.5325.0
30 Amp	34.223.5130.0	34.223.5230.0	34.223.5330.0
32 Amp	34.223.5132.0	34.223.5232.0	34.223.5332.0
40 Amp	34.223.5140.0	34.223.5240.0	34.223.5340.0
50 Amp	34.223.5150.0	34.223.5250.0	34.223.5350.0
60 Amp	34.223.5160.0	34.223.5260.0	34.223.5360.0
63 Amp	34.223.5163.0	34.223.5263.0	34.223.5363.0

Thermal-Magnetic Circuit Breakers
Branch Protection, Trip Curve D

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Approved to UL 489 / CSA No. 5 for Branch Applications

Trip Curve D

Type	MCB-B-1P	MCB-B-2P	MCB-B-3P
Size	1 pole	2 Pole	3 Pole
Wire Size	18 - 3 AWG	18 - 3 AWG	18 - 3 AWG
Voltage	480 / 277 / 240 Vac	480 / 277 / 240 Vac	480 / 277 / 240 Vac
Amperage	0.5 - 63 A	0.5 - 63 A	0.5 - 63 A
Width	17.5 mm	35 mm	52.5 mm
Approvals			
0.5 Amp	34.223.6100.5	34.223.6200.5	34.223.6300.5
1 Amp	34.223.6101.0	34.223.6201.0	34.223.6301.0
2 Amp	34.223.6102.0	34.223.6202.0	34.223.6302.0
3 Amp	34.223.6103.0	34.223.6203.0	34.223.6303.0
4 Amp	34.223.6104.0	34.223.6204.0	34.223.6304.0
6 Amp	34.223.6106.0	34.223.6206.0	34.223.6306.0
8 Amp	34.223.6108.0	34.223.6208.0	34.223.6308.0
10 Amp	34.223.6110.0	34.223.6210.0	34.223.6310.0
13 Amp	34.223.6113.0	34.223.6213.0	34.223.6313.0
15 Amp	34.223.6115.0	34.223.6215.0	34.223.6315.0
16 Amp	34.223.6116.0	34.223.6216.0	34.223.6316.0
20 Amp	34.223.6120.0	34.223.6220.0	34.223.6320.0
25 Amp	34.223.6125.0	34.223.6225.0	34.223.6325.0
30 Amp	34.223.6130.0	34.223.6230.0	34.223.6330.0
32 Amp	34.223.6132.0	34.223.6232.0	34.223.6332.0
40 Amp	34.223.6140.0	34.223.6240.0	34.223.6340.0
50 Amp	34.223.6150.0	34.223.6250.0	34.223.6350.0
60 Amp	34.223.6160.0	34.223.6260.0	34.223.6360.0
63 Amp	34.223.6163.0	34.223.6263.0	34.223.6363.0

Thermal-Magnetic Circuit Breakers
Supplementary Protection, Trip Curve C

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DIN rail mount, thermal/magnetic circuit breakers. Their compact dimensions, ease of mounting and excellent performance make them ideal for the overload and short circuit protection of control components and associated wiring.

- Approved to UL 1077 / CSA 235 for Supplemental Applications.

- Approved to UL508 for manual motor controller
- 1, 2 and 3 pole units
- Industry standard trip curve C
- Other trip curves and amperages available
- 0.5A – 63A
- Finger safe protection

Type	MCB-S-1P	MCB-S-2P	MCB-S-3P
Size	1 pole	2 Pole	3 Pole
Wire Size	14 - 4 AWG	14 - 4 AWG	14 - 4 AWG
Voltage	480 / 277 Vac	480 / 277 Vac	480 / 277 Vac
Amperage	0.5 - 63 A	0.5 - 63 A	0.5 - 63 A
Width	17.5 mm	35 mm	52.5 mm
Approvals			
0.5 Amp	34.223.7100.5	34.223.7200.5	34.223.7300.5
1 Amp	34.223.7101.0	34.223.7201.0	34.223.7301.0
1.6 Amp	34.223.7101.6	34.223.7201.6	34.223.7301.6
2 Amp	34.223.7102.0	34.223.7202.0	34.223.7302.0
3 Amp	34.223.7103.0	34.223.7203.0	34.223.7303.0
4 Amp	34.223.7104.0	34.223.7204.0	34.223.7304.0
5 Amp	34.223.7105.0	34.223.7205.0	34.223.7305.0
6 Amp	34.223.7106.0	34.223.7206.0	34.223.7306.0
8 Amp	34.223.7108.0	34.223.7208.0	34.223.7308.0
10 Amp	34.223.7110.0	34.223.7210.0	34.223.7310.0
13 Amp	34.223.7113.0	34.223.7213.0	34.223.7313.0
15 Amp	34.223.7115.0	34.223.7215.0	34.223.7315.0
16 Amp	34.223.7116.0	34.223.7216.0	34.223.7316.0
20 Amp	34.223.7120.0	34.223.7220.0	34.223.7320.0
25 Amp	34.223.7125.0	34.223.7225.0	34.223.7325.0
30 Amp	34.223.7130.0	34.223.7230.0	34.223.7330.0
32 Amp	34.223.7132.0	34.223.7232.0	34.223.7332.0
40 Amp	34.223.7140.0	34.223.7240.0	34.223.7340.0
50 Amp	34.223.7150.0	34.223.7250.0	34.223.7350.0
60 Amp	34.223.7160.0	34.223.7260.0	34.223.7360.0
63 Amp	34.223.7163.0	34.223.7263.0	34.223.7363.0

Thermal-Magnetic Circuit Breakers
Supplementary Protection, Trip Curve D

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DIN rail mount, thermal/magnetic circuit breakers. Their compact dimensions, ease of mounting and excellent performance make them ideal for the overload and short circuit protection of control components and associated wiring.

- Approved to UL 1077 / CSA 235 for Supplemental Applications.

- Approved to UL508 for manual motor controller
- 1, 2 and 3 pole units
- Industry standard trip curve D
- Other trip curves and amperages available
- 0.5A – 63A
- Finger safe protection

Type	MCB-S-1P	MCB-S-2P	MCB-S-3P
Size	1 pole	2 Pole	3 Pole
Wire Size	14 - 4 AWG	14 - 4 AWG	14 - 4 AWG
Voltage	480 / 277 Vac	480 / 277 Vac	480 / 277 Vac
Amperage	0.5 - 63 A	0.5 - 63 A	0.5 - 63 A
Width	17.5 mm	35 mm	52.5 mm
Approvals			
0.5 Amp	34.223.8100.5	34.223.8200.5	34.223.8300.5
1 Amp	34.223.8101.0	34.223.8201.0	34.223.8301.0
2 Amp	34.223.8102.6	34.223.8202.6	34.223.8302.6
3 Amp	34.223.8103.0	34.223.8203.0	34.223.8303.0
4 Amp	34.223.8104.0	34.223.8204.0	34.223.8304.0
6 Amp	34.223.8106.0	34.223.8206.0	34.223.8306.0
8 Amp	34.223.8108.0	34.223.8208.0	34.223.8308.0
10 Amp	34.223.8110.0	34.223.8210.0	34.223.8310.0
13 Amp	34.223.8113.0	34.223.8213.0	34.223.8313.0
16 Amp	34.223.8116.0	34.223.8216.0	34.223.8316.0
20 Amp	34.223.8120.0	34.223.8220.0	34.223.8320.0
25 Amp	34.223.8125.0	34.223.8225.0	34.223.8325.0
32 Amp	34.223.8132.0	34.223.8232.0	34.223.8332.0
40 Amp	34.223.8140.0	34.223.8240.0	34.223.8340.0
50 Amp	34.223.8150.0	34.223.8250.0	34.223.8350.0
63 Amp	34.223.8163.0	34.223.8263.0	34.223.8363.0

Thermal-Magnetic Circuit Breakers
Accesories / Technical Data

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	1 Phase 1 x 57 Poles	2 Phase 2 x 28 Poles	3 Phase 3 x 19 Poles
Comb Busbar	34.223.9049.0	34.223.9051.0	34.223.9053.0
Pin Busbar	34.223.9050.0	34.223.9052.0	34.223.9054.0

Connection Terminal for comb or pin type	34.223.9055.0	34.223.9055.0	34.223.9055.0
End Cap for 2 or 3 pole busbar	34.223.9056.0	34.223.9056.0	34.223.9056.0
Safety Lockout Black	34.223.9057.0	34.223.9057.0	34.223.9057.0
Safety Lockout Yellow	34.223.9058.0	34.223.9058.0	34.223.9058.0
DIN Clip for top rail	34.223.9059.0	34.223.9059.0	34.223.9059.0
Adaptor Direct mount foot	34.223.9060.0	34.223.9060.0	34.223.9060.0
Adaptor Panel mount bracket	34.223.9061.0	34.223.9062.0	34.223.9063.0

Branch Protection type Type: MCB-P	Branch breakers have the same capabilities of the supplemental MCBs, they are also approved for use as a main incoming feeder or for field wiring applications. High 10kA interrupting rating is maintained up to 63A. They are available in a wide variety of amp ratings and trip curves so they can be matched to the circuit requirements. Branch MCBs can be used in place of Supplemental protectors.
Supplemental Protection type Type: MCB-S	Supplemental breakers and are intended for the overload and short circuit protection of individual control components. Supplemental devices are typically used on the load side of branch circuit devices to 'Supplement' the branch rated device. They are available in a wide range of current ratings and trip characteristics that allow them to be matched to the protection requirements of individual control devices. They are not intended to be used in applications requiring a Branch rated device.

C Trip Curve C type discription	Normal Trip (5-10x range) Mixed loads with some motor, transformer or solenoid content. Examples: General small panel control with mixed devices; HVAC control; Lighting control panels; Machine tools; Mobile equipment; trailers; Vending machines; ATM's; Marine electrical systems.
D Trip Curve D type discription	Slow Blow Trip (10-20x rating), Circuits consisting primarily of motor, transformer or solenoid/coil content. Examples: Motor starters; Pump control panels; Compressor and pump panels; Generator panels; Capacitor applications; Transformer primary protection; Solenoids.

Thermal-Magnetic Circuit Breakers
Technical Data

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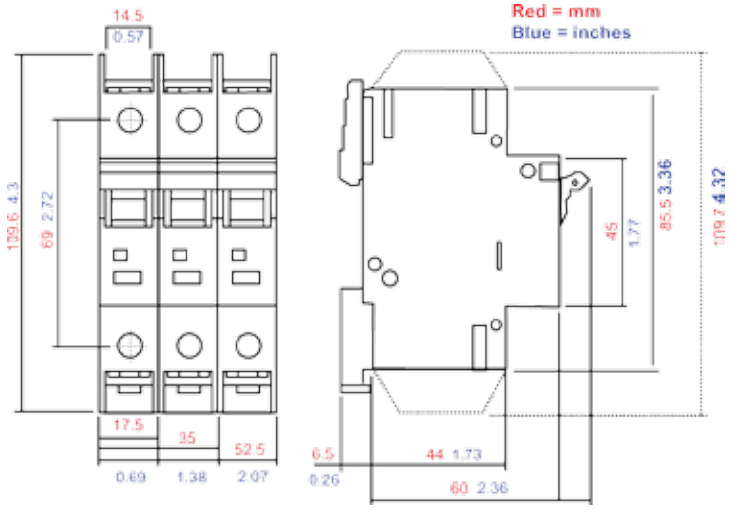
Max Voltage		
Branch		480 Vac (PH-PH) 277 Vac (Ph - Gnd). for 0.2 - 32 A / 240 Vac for 33 to 63 A Self certified for 48 Vdc.
Supplemental		480 Vac (PH-PH) / 277 Vac (Ph - Gnd). Self certified for 48 Vdc
Wire Size		14 AWG – 4A WG @ 2.0 Nm (17.5 in lb) 8 AWG – 3 AWG @ 2.8 Nm (25 in lb)
Amperage		0.5 - 63 A, other sized available on request
Approvals		cULus
Branch		cURus for general purpose
Supplemental		cULus per UL508 for motor controllers.
Temperature		-25 to 60
IP Rating		IP20
Mechanical life		100 000 cycles
Electrical life		6000 cycles
Max Vibration		3 G / 8-50 Hz
Interrupt Ratings		
Branch		10kA for 0.5 - 63 A 10kA for 0.5 - 6 A
Supplemental		5kA for 7 - 63 A, without fuse 10kA for 7 - 63 A, with fuse

Dimensions



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contacts are green.

Industrial technology

Solutions for the control cabinet

- DIN rail terminal blocks
  - Screw and spring clamp technology
  - Wire cross sections up to 240 mm^2
  - Numerous special functions
  - Software solutions interfacing to CAE systems
- Safety
  - Safety sensors
  - Safety relays
  - Modular safety systems with fieldbus link
- PLC and fieldbus components
  - Standard applications in IP20
  - Increased environmental conditions with railroad and ship approvals
- Interface
  - Coupling relays, semiconductor switches
  - Measuring and monitoring relays
  - Timer and switching relays
  - Analog modules
  - Passive interfaces
  - Power supply units
  - Overvoltage protection

Solutions for field applications

- Remote automation technology
  - Power distribution
  - Fieldbus interfaces and motor starters
- Connectors for industrial applications
  - Square and round connectors
  - Aluminum or plastic housings
  - Degree of protection up to IP68
  - Current-carrying capacity up to 100A
  - Connectors for hazardous areas
  - Modular, application specific technology

PC board terminals and connectors

- Screw or spring clamp connection technology
- Spacings: 3.5mm to 10.16mm
- Reflow or wave soldering process

Building and installation technology

- Building installation systems
  - Main power supply connectors IP20/IP65 ... IP68
  - Bus connectors
  - Combined connectors
  - Low-voltage connectors
  - Power distribution system with flat cables
  - Distribution systems
  - Bus systems in KNX, LON and radio technology
  - DIN rail terminal blocks for electrical installations
  - Overvoltage protection

Product Range