



wieland

Circuit Breakers



Excerpt from Master Catalogue
Circuit Breakers

Specifically For You



Hydraulic-magnetic Circuit Breakers

Branch Protection AC



Hydraulic-magnetic technology ensures reduced nuisance

tripping with temperature variance

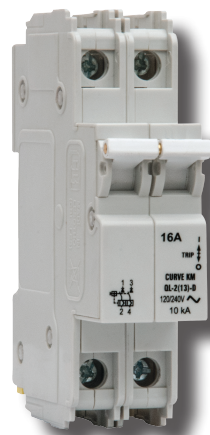
Always holds 100% rated current

Wide range of trip curves & operating currents

Ultra compact - 13 mm width module

Trip indication with mid trip handle position

Reset possible immediately after overload



Approved to UL 489 / CSA 22 No. 5 for Branch Applications

Type	MCB-QL-1P	MCB-QL-1P	MCB-QL-2P	MCB-QL-2P
Size	1 pole	1 pole	2 pole	2 pole
Wire Size	18 - 10 AWG	18 - 10 AWG	18 - 10 AWG	18 - 10 AWG
Voltage	240 Vac	240 Vac	240 Vac	240 Vac
Trip Curve	KM - MEDIUM	9 - LONG	KM - MEDIUM	9 - LONG
Width	13 mm	13 mm	26 mm	26 mm
Approvals				

1 Amp	34.211.1013.2	34.211.1013.9	34.212.1013.2	34.212.1013.9
2 Amp	34.211.1023.2	34.211.1023.9	34.212.1023.2	34.212.1023.9
5 Amp	34.211.1033.2	34.211.1033.9	34.212.1033.2	34.212.1033.9
10 Amp	34.211.1043.2	34.211.1043.9	34.212.1043.2	34.212.1043.9
15 Amp	34.211.1053.2	34.211.1053.9	34.212.1053.2	34.212.1053.9
20 Amp	34.211.1063.2	34.211.1063.9	34.212.1063.2	34.212.1063.9
25 Amp	34.211.1073.2	34.211.1073.9	34.212.1073.2	34.212.1073.9

Type	MCB-QL-3P	MCB-QL-3P
Size	3 pole	3 pole
Wire Size	18 - 10 AWG	18 - 10 AWG
Voltage	240 Vac	240 Vac
Trip Curve	KM - MEDIUM	9 - LONG
Width	39 mm	39 mm
Approvals		

1 Amp	34.213.1013.2	34.213.1013.9		
2 Amp	34.213.1023.2	34.213.1023.9		
5 Amp	34.213.1033.2	34.213.1033.9		
10 Amp	34.213.1043.2	34.213.1043.9		
15 Amp	34.213.1053.2	34.213.1053.9		
20 Amp	34.213.1063.2	34.213.1063.9		
25 Amp	34.213.1073.2	34.213.1073.9		

Hydraulic-magnetic Circuit Breakers

Branch Protection DC



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Approved to UL 489 A

Type	MCB-QY-1P	MCB-QY-1P	MCB-QY-2P	MCB-QY-2P
Size	1 pole	1 pole	2 pole	2 pole
Wire Size	18 - 6 AWG	18 - 6 AWG	18 - 6 AWG	18 - 6 AWG
Voltage	80 Vdc	80 Vdc	80 Vdc	80 Vdc
Trip Curve	U2 - MEDIUM	9 - LONG	U2 - MEDIUM	9 - LONG
Width	13 mm	13 mm	26 mm	26 mm
Approvals				

0.5 Amp	34.211.2001.2	34.211.2001.9	34.212.2001.2	34.212.2001.9
1 Amp	34.211.2011.2	34.211.2011.9	34.212.2011.2	34.212.2011.9
2 Amp	34.211.2021.2	34.211.2021.9	34.212.2021.2	34.212.2021.9
5 Amp	34.211.2031.2	34.211.2031.9	34.212.2031.2	34.212.2031.9
10 Amp	34.211.2041.2	34.211.2041.9	34.212.2041.2	34.212.2041.9
15 Amp	34.211.2051.2	34.211.2051.9	34.212.2051.2	34.212.2051.9
20 Amp	34.211.2061.2	34.211.2061.9	34.212.2061.2	34.212.2061.9
25 Amp	34.211.2071.2	34.211.2071.9	34.212.2071.2	34.212.2071.9
30 Amp	34.211.2081.2	34.211.2081.9	34.212.2081.2	34.212.2081.9
40 Amp	34.211.2101.2	34.211.2101.9	34.212.2101.2	34.212.2101.9
50 Amp	34.211.2111.2	34.211.2111.9	34.212.2111.2	34.212.2111.9
60 Amp	34.211.2121.2	34.211.2121.9		
63 Amp	34.211.2131.2	34.211.2131.9		
80 Amp			34.211.2141.2	34.211.2141.9
100 Amp			34.211.2151.2	34.211.2151.9

Type	MCB-QY-3P	MCB-QY-3P	MCB-QY-4P	MCB-QY-4P
Size	3 pole	3 pole	4 pole	4 pole
Wire Size	18 - 6 AWG	18 - 6 AWG	18 - 6 AWG	18 - 6 AWG
Voltage	80 Vdc	80 Vdc	80 Vdc	80 Vdc
Trip Curve	U2 - MEDIUM	9 - LONG	U2 - MEDIUM	9 - LONG
Width	39 mm	39 mm	39 mm	39 mm
Approvals				

150 Amp	34.211.2161.2	34.211.2161.9		
200 Amp			34.211.2171.2	34.211.2171.9

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Branch Protection DC

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Trip indication with mid trip handle position

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Approved to UL 489 A

Type	MCB-QY-1P	MCB-QY-1P	MCB-QY-2P	MCB-QY-2P
Size	1 pole	1 pole	2 pole	2 pole
Wire Size	18 - 6 AWG	18 - 6 AWG	18 - 6 AWG	18 - 6 AWG
Voltage	125 Vdc	125 Vdc	125 Vdc	125 Vdc
Trip Curve	U2 - MEDIUM	9 - LONG	U2 - MEDIUM	9 - LONG
Width	13 mm	13 mm	26 mm	26 mm
Approvals				

0.5 Amp	34.211.3002.2	34.211.3002.9	34.212.3002.2	34.212.3002.9
1 Amp	34.211.3012.2	34.211.3012.9	34.212.3012.2	34.212.3012.9
2 Amp	34.211.3022.2	34.211.3022.9	34.212.3022.2	34.212.3022.9
5 Amp	34.211.3032.2	34.211.3032.9	34.212.3032.2	34.212.3032.9
10 Amp	34.211.3042.2	34.211.3042.9	34.212.3042.2	34.212.3042.9
15 Amp	34.211.3052.2	34.211.3052.9	34.212.3052.2	34.212.3052.9
20 Amp	34.211.3062.2	34.211.3062.9	34.212.3062.2	34.212.3062.9
25 Amp	34.211.3072.2	34.211.3072.9	34.212.3072.2	34.212.3072.9
30 Amp	34.211.3082.2	34.211.3082.9	34.212.3082.2	34.212.3082.9
40 Amp	34.211.3102.2	34.211.3102.9	34.212.3102.2	34.212.3102.9
50 Amp	34.211.3112.2	34.211.3112.9	34.212.3112.2	34.212.3112.9
60 Amp	34.211.3122.2	34.211.3122.9		
63 Amp	34.211.3132.2	34.211.3132.9		
80 Amp			34.211.3142.2	34.211.3142.9
100 Amp			34.211.3152.2	34.211.3152.9

Type	MCB-QY-3P	MCB-QY-3P	MCB-QY-4P	MCB-QY-4P
Size	3 pole	3 pole	4 pole	4 pole
Wire Size	18 - 6 AWG	18 - 6 AWG	18 - 6 AWG	18 - 6 AWG
Voltage	125 Vdc	125 Vdc	125 Vdc	125 Vdc
Trip Curve	U2 - MEDIUM	9 - LONG	U2 - MEDIUM	9 - LONG
Width	39 mm	39 mm	52 mm	52 mm
Approvals				

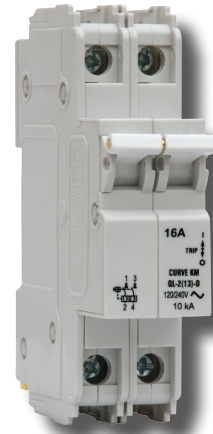
150 Amp	34.211.3162.2	34.211.3162.9		
200 Amp			34.211.3172.2	34.211.3172.9

Hydraulic-magnetic Circuit Breakers

Supplementary Protection AC

selos

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Approved to UL1077 / CSA 235-M89

Type	MCB-QZ-1P	MCB-QZ-1P	MCB-QZ-2P	MCB-QZ-2P
Size	1 pole	1 pole	2 pole	2 pole
Wire Size	18 - 4 AWG	18 - 4 AWG	18 - 4 AWG	18 - 4 AWG
Voltage	277 Vac	277 Vac	277 / 480 Vac	277 / 480 Vac
Trip Curve	2 - MEDIUM	9 - LONG	2 - MEDIUM	9 - LONG
Width	13 mm	13 mm	26 mm	26 mm
Approvals				

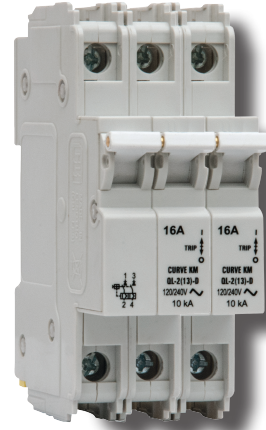
1 Amp	34.211.4014.2	34.211.4014.9	34.212.4014.2	34.212.4014.9
2 Amp	34.211.4024.2	34.211.4024.9	34.212.4024.2	34.212.4024.9
5 Amp	34.211.4034.2	34.211.4034.9	34.212.4034.2	34.212.4034.9
10 Amp	34.211.4044.2	34.211.4044.9	34.212.4044.2	34.212.4044.9
15 Amp	34.211.4054.2	34.211.4054.9	34.212.4054.2	34.212.4054.9
20 Amp	34.211.4064.2	34.211.4064.9	34.212.4064.2	34.212.4064.9
25 Amp	34.211.4074.2	34.211.4074.9	34.212.4074.2	34.212.4074.9
30 Amp	34.211.4084.2	34.211.4084.9	34.212.4084.2	34.212.4084.9
35 Amp	34.211.4094.2	34.211.4094.9	34.212.4094.2	34.212.4094.9
40 Amp	34.211.4104.2	34.211.4104.9	34.212.4104.2	34.212.4104.9
50 Amp	34.211.4114.2	34.211.4114.9	34.212.4114.2	34.212.4114.9
60 Amp	34.211.4124.2	34.211.4124.9	34.212.4124.2	34.212.4124.9

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Approved to UL1077 / CSA 235-M89



Type	MCB-QZ-3P	MCB-QZ-3P
Size	3 pole	3 pole
Wire Size	18 - 4 AWG	18 - 4 AWG
Voltage	277 / 480 Vac	277 / 480 Vac
Trip Curve	2 - MEDIUM	9 - LONG
Width	39 mm	39 mm
Approvals		

1 Amp	34.213.4014.2	34.213.4014.9		
2 Amp	34.213.4024.2	34.213.4024.9		
5 Amp	34.213.4034.2	34.213.4034.9		
10 Amp	34.213.4044.2	34.213.4044.9		
15 Amp	34.213.4054.2	34.213.4054.9		
20 Amp	34.213.4064.2	34.213.4064.9		
25 Amp	34.213.4074.2	34.213.4074.9		
30 Amp	34.213.4084.2	34.213.4084.9		
35 Amp	34.213.4094.2	34.213.4094.9		
40 Amp	34.213.4104.2	34.213.4104.9		
50 Amp	34.213.4114.2	34.213.4114.9		
60 Amp	34.213.4124.2	34.213.4124.9		

Insulated Copper Bus Bar Accessories




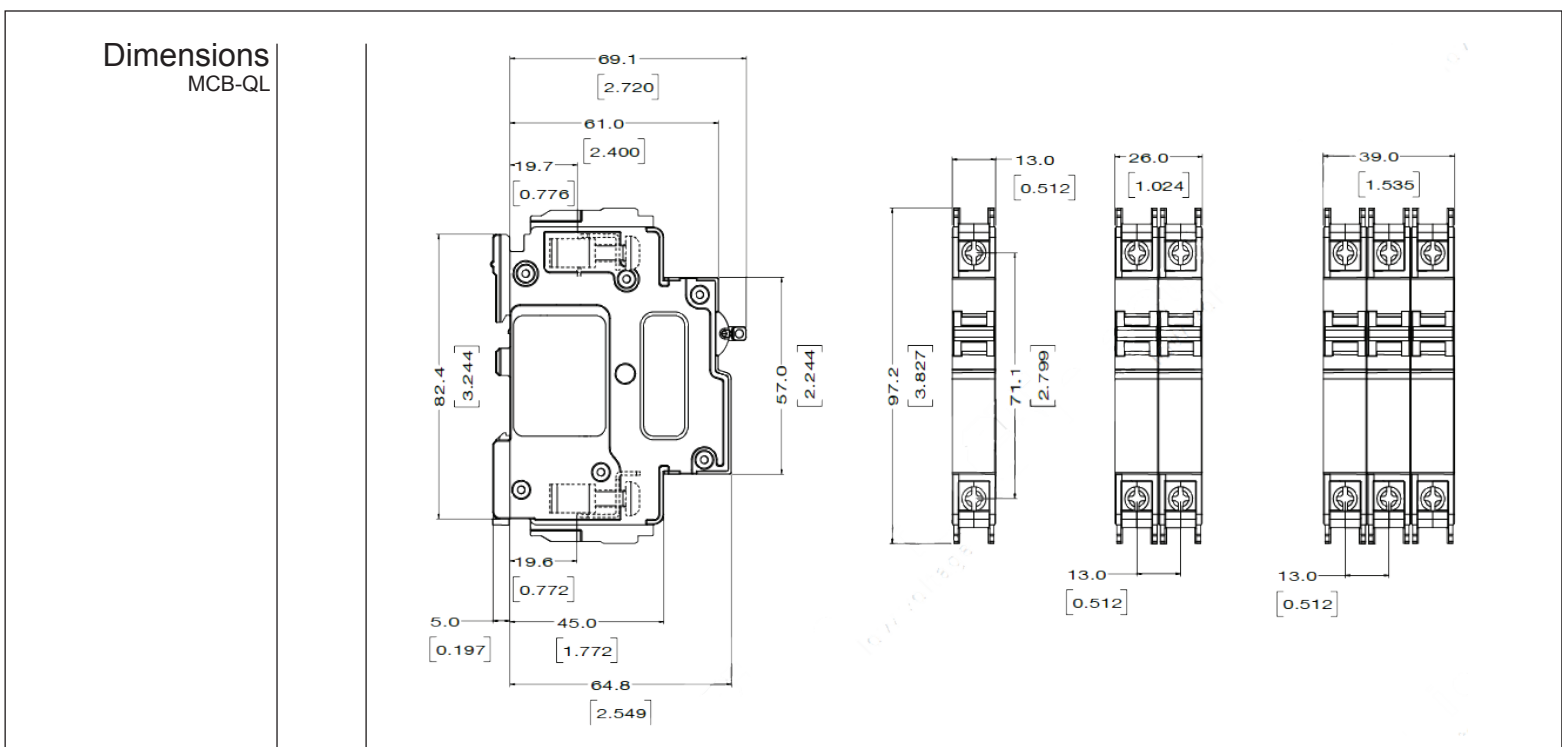
Bus Bar Poles Length Amperage Voltage Cross Section Approvals	1 phase 75 x 1 pole 1 meter 80 A 690 V 16 mm ²	2 phase 38 x 2 pole 1 meter 80 A 690 V 16 mm ²	3 phase 25 x 3 pole 1 meter 80 A 690 V 16 mm ²
Bus Bar End Cover	34.211.9000.0 34.211.9100.0	34.212.9000.0 34.213.9100.0	34.213.9000.0 34.213.9100.0

Hydraulic-magnetic Circuit Breakers

Technical Information

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Max Voltage Branch Supplemental	240 Vac (0.1 - 25 A) 480 Vac (PH-PH) / 277 Vac (Ph - Gnd).
Wire Size	18 AWG – 4 AWG @ 2.8 Nm (25 in lb))
Amperage	0.5-63A at 80/125VDC single pole. 0.1A to 25A UL489 Listed at 120/240 and 240VAC. 0.1A to 60A at 277/480VAC UL Recognised.
Approvals	
Temperature	-40 to 65 °C
IP Rating	IP20
Mechanical life	10 000 cycles
Electrical life	6000 cycles
Max Vibration	3 G / 8-50 Hz
Interrupt Ratings Branch Supplemental	10kA for 0.1 - 25 A 5kA for 0.1 - 60 A

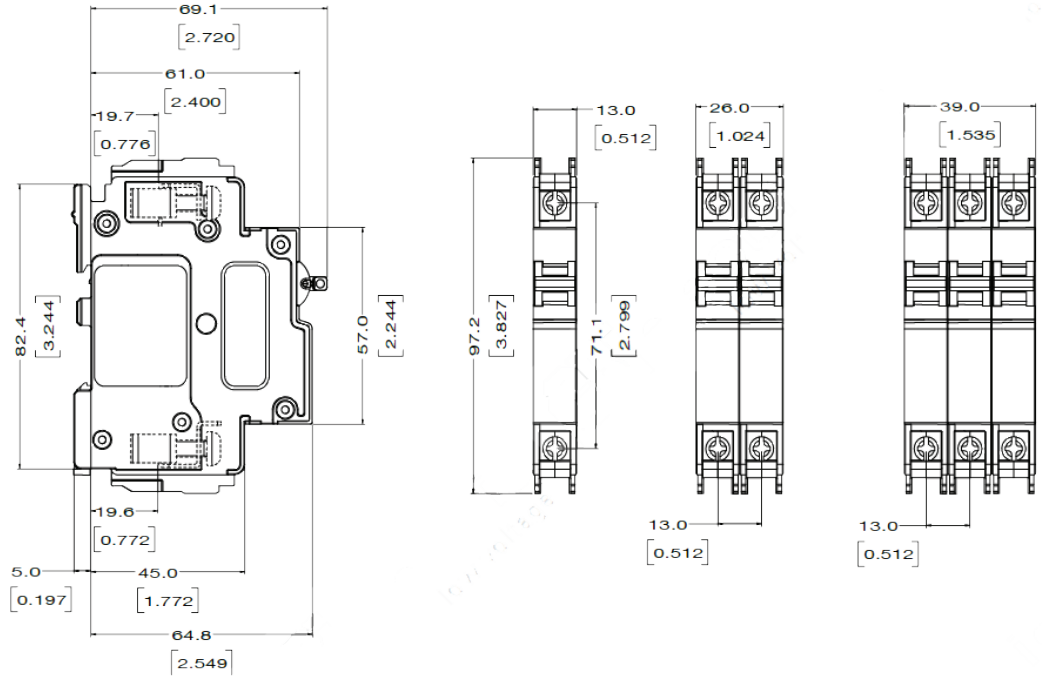


Hydraulic-magnetic Circuit Breakers

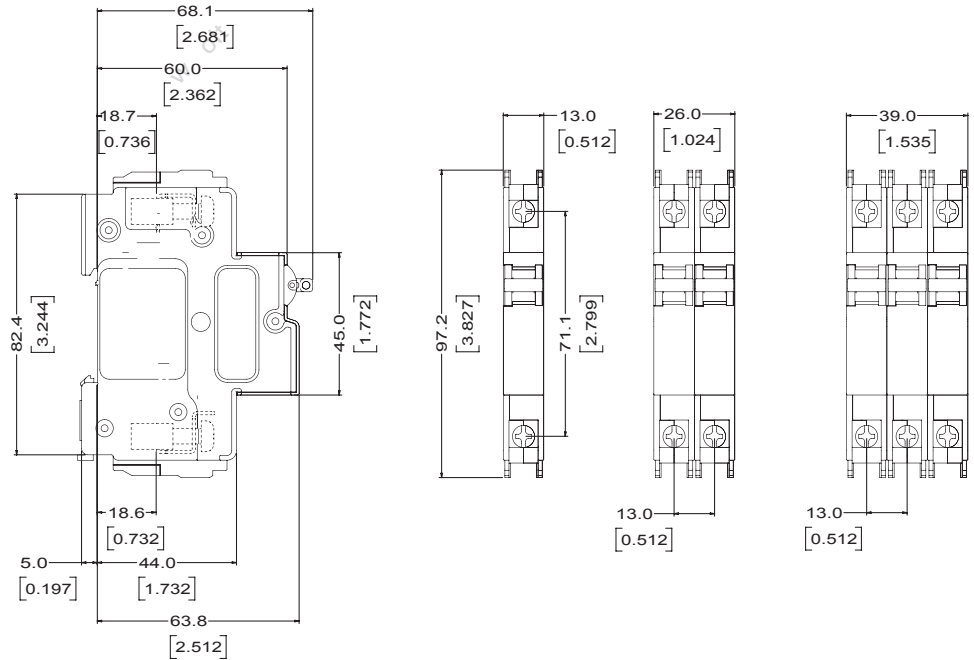
Technical Information



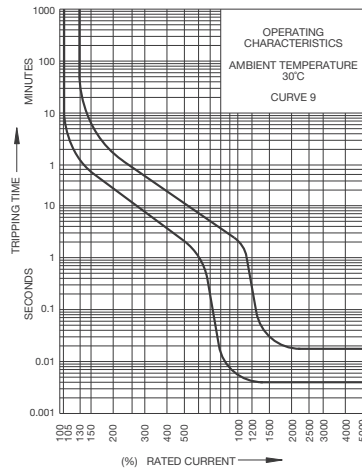
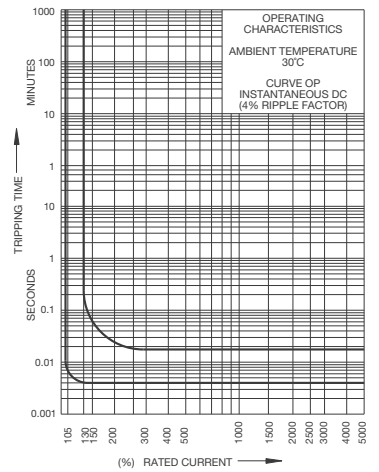
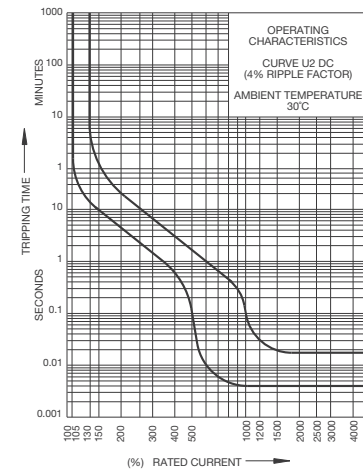
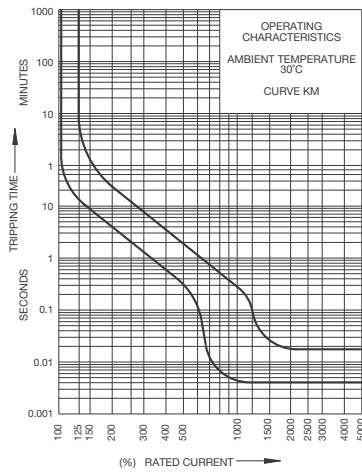
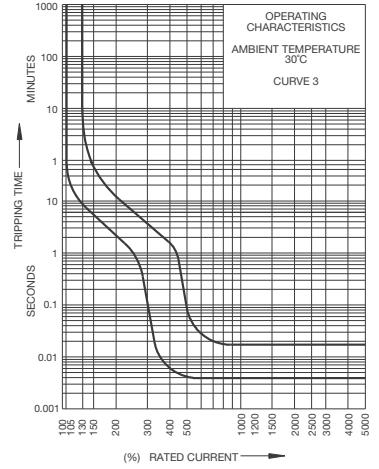
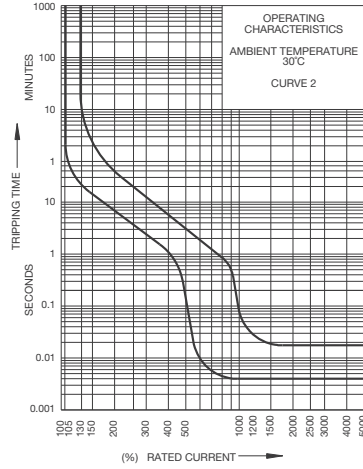
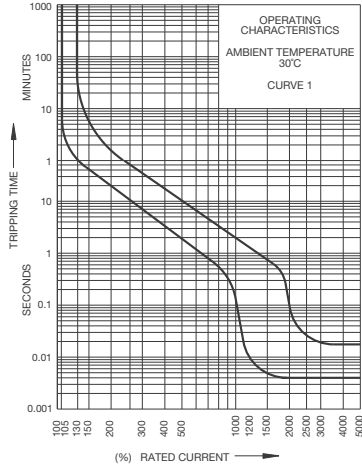
Dimensions
MCB-QY



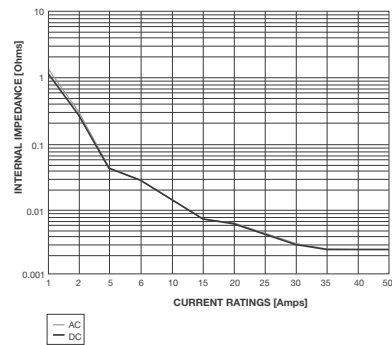
Dimensions
MCB-QZ



Trip Curve



INTERNAL IMPEDANCE vs CURRENT RATING





wieland

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Industrial technology

Solutions for the control cabinet

- DIN rail terminal blocks
 - Screw and spring clamp technology
 - Wire cross sections up to 240 mm²
 - 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 100 A
 - Connectors for hazardous areas
 - Modular, application specific technology

PC board terminals and connectors

- Screw or spring clamp connection technology
- Spacings: 3.5 mm to 10.16 mm
- 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

**contacts
are
green.**

Product Range