

MX23 Series

MANUAL RESET CIRCUIT PROTECTOR, MINIATURE, EXPANSION TYPE



MX23 Series Miniature Circuit Protectors are the ideal choice for the protection of critical circuits requiring ultra-precise, rapid and chatter-free tripping as well as applications where sensitivity to varying ambient temperatures would adversely affect trip characteristics.

EXAMPLES OF MX23 SERIES APPLICATIONS include:

- Commercial Appliances
 - Household Appliances
 - Office Equipment
 - Video Equipment
 - Computer Peripherals
 - Medical Equipment
 - Portable Generators
- ...and many more

OTHER MX23 SERIES FEATURES include:

- Extremely compact and simple design.
- Trip-free mechanism.
- Immediate manual reset capability.
- Constant contact voltage drop up to trip-point.
- Insensitive to frequency variation due to use of non-inductive sensing element.

SPECIFICATIONS

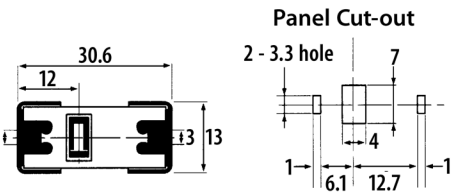
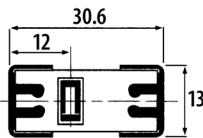
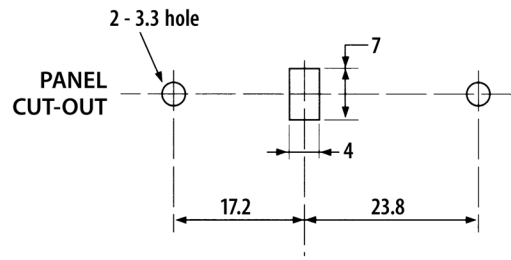
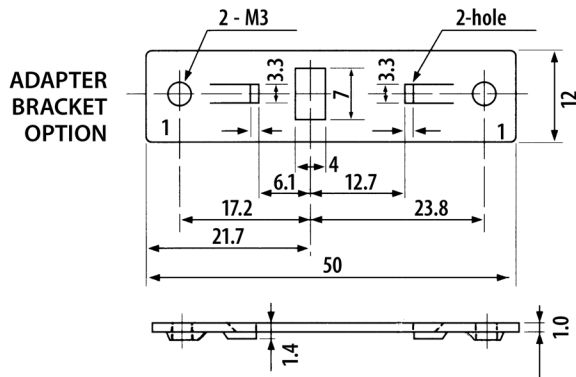
- **Trip Time vs. Overload at 25°C**
At 100% of rated current: no trip
At 175% of rated current: trip within 2 minutes
At 300% of rated current: trip in less than 2 seconds
- **Current and Voltage Ratings**
0.4A–6.3A, 125VAC, 50/60 Hz. UL/CSA
0.4A–3.15A, 250VAC, 50/60 Hz (no approvals)
0.4A–6.3A, 12VDC (no approvals)
0.4A–5.0A, 24VDC (no approvals)
0.4A–3.15A, 48VDC (no approvals)
- **Interrupt Capacity**
1000A at 125V AC per UL 1416
100A at 250VAC and 48VDC
500A at 12VDC and 24VDC
- **Resettable Overload Capacity**
6 times rated current for protectors rated at 4.0A or less
4 times rated current for protectors rated at 5.0A–6.3A
- **Dielectric Strength**
> 1500 volts RMS
- **Voltage Drop**
< 1.2V measured between input and output terminals at 100% of rated current
- **Temperature Rise at Terminal Block**
50°C maximum with 100% of rated current applied continuously
- **Reset Time**
Unit is immediately resettable.
No cool down time is necessary.
- **Derating Factors for Ambient Temperature**
MX23 Series circuit protectors are unaffected by ambient temperature within an operating range of -20°C to +65°C.

- **Vibration**
No opening of closed contacts or closing of open contacts during 2 hour vibration test at 33 Hz (approx. 6 G) and 3 mm amplitude applied in three planes.
- **Soldering Recommendation**
No longer than 5 seconds with 60 watt maximum soldering iron.
- **Termination Options**
Printed circuit board pins
.187" quick connects
.205" quick connects
- **Mounting Options**
Panel mounting bracket

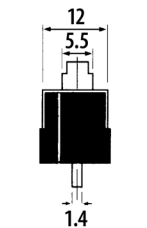
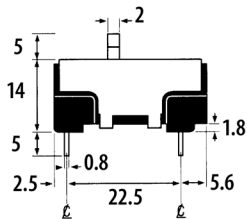
MAXIMUM RESISTANCE vs CURRENT RATING at 25°C

Current Rating (Amps)	PCB Pins (Ohms)	Quick Connects (Ohms)
0.4	1.77	2.07
0.5	1.57	1.60
0.63	1.41	1.35
0.8	1.28	1.07
1.0	1.13	.68
1.25	.86	.63
1.6	.67	.46
2.0	.53	.41
2.5	.38	.34
3.15	.23	.23
4.0	.09	.09
5.0	.06	.07
6.3	.05	.06

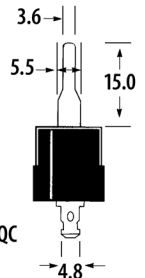
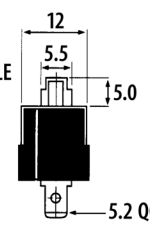
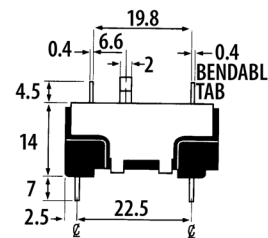
DIMENSIONS in mm



MX23 with Printed Circuit Board Pins



MX23 with Quick Connect Terminals



OPTIONS SELECTION

Series	Amps select by letter	Volts select by letter	Terminals select by number	Actuator select by letter	Mounting Hardware select by number
MX23 Manual Reset Expansion Type Miniature Circuit Protectors	A 0.40	A 125VAC/12VDC <i>0.40–6.60 amps</i>	1 PCB Pins 2 .205" Quick Connects 3 .187" Quick Connects	A Short 5mm B Medium 10mm C Long 15mm	1 None 2 Adapter Bracket
	B 0.50				
	C 0.63				
	D 0.80	B 250VAC/48VDC <i>0.40–3.15 amps</i>	Example: MX23 JB 1 A 2 <i>MX23, 2.5Amps, 250VoltsAC/48VoltsDC, PCB pin terminals, 10mm actuator, Adapter bracket</i>		
	E 1.00				
	F 1.25				
	G 1.60	C 24VDC <i>0.40–5.0 amps</i>			
	H 2.00				
	J 2.50				
	K 3.15				
	L 4.00				
	M 5.00				
	P 6.30				