



Technical Data

POWER SUPPLY INPUT 3-Phase System

Phase-to-phase voltage $: 380 \text{ V AC} \pm 20\%$ $400 \text{ VAC} \pm 20\%$

Single Phase

Phase-to-neutral voltage : 220 V AC \pm 20% $230\,V\,AC\pm20\%$ $240\,V\,AC\pm20\%$: 45 to 65 Hz Frequency range Max. power consumption: 3 VA

415 V AC ± 20%

Input Connections

For 3-phase model	: Phase L1, L2, L3 to
	pin 5, 6, & 7
	Neutral to pin 11
For single-phase model	: Phase L to pin 5, 6 &
	7***
	Neutral to pin 11

SETTING RANGES

Lower voltage limit * Upper voltage limit ** Delay time, T

:78% - 98% :102% - 122% : 0.1 - 10s

HYSTERESIS

≤1% of rms - value

OUTPUT CONTACTS

Rated voltage : 250 V AC Contact rating :5A Expected electrical life: 100,000 operations at rated current Expected mechanical life: 5 x 10⁶ operations

INDICATORS

Power supply ON Output ON Under voltage limit (U<) * Over voltage limit (U>) **

180A

60A

Electronic monitoring relay Voltage monitoring for single

Phase failure monitoring Adjustable voltage limit Adjustable delay time Indicators for voltage fault

ANSI Code : 27, 47, 59

Indicators for power and output ON

3-phase system

: Green indicator : Red indicator : Red indicator : Red indicator

ENVIRONMENTAL CONDITIONS

Temperature	: -5°C to +55°C
Humidity	: 56 days at 93% RH and
	40°C non-condensing

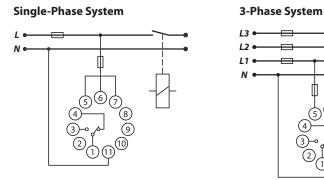
MECHANICAI

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Mounting	:	Circular 11-pin plug-in
		socket
Dimension (mm)	:	35(w) x 80(h) x 72.5(d)
Approximate weight	:	0.3 kg

* Applicable to MX160A and MX200A only

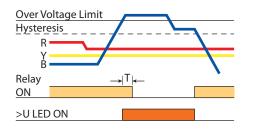
- ** Applicable to MX180A and MX200A only
- *** For single phase connection, short pin 5,6 & 7

Wiring Diagram

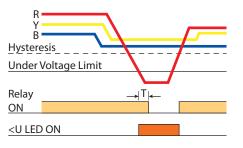


Operations Diagram





ii) Under Voltage Function*

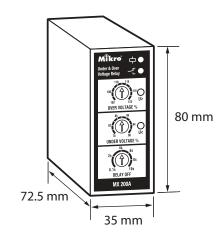


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IMPORTANT

The setting for this relay is a potentiometer knob or analogue/mechanical in nature. User will need to confirm the accuracy of the settings by using a relay test set and injecting a reference voltage and check the pick up value and the tripping timing during commissioning. To have a precise setting model, user can consider to switch to digital setting type relay.

Case Dimensions



Ordering Information

FUNCTION						
MODEL	Under Voltage Monitoring	Over Voltage Monitoring	Supply Voltage V AC			
MX160A - 380	YES	NO	380			
MX160A - 400	YES	NO	400			
MX160A - 415	YES	NO	415			
MX180A - 380	NO	YES	380			
MX180A - 400	NO	YES	400			
MX180A - 415	NO	YES	415			
MX200A - 380	YES	YES	380			
MX200A - 400	YES	YES	400			
MX200A - 415	YES	YES	415			