



MX200A/180A/160A

WIRING DIAGRAM

Features

- · Electronic monitoring relay
- Voltage monitoring for single / 3-phase system
- · Phase failure monitoring
- · Adjustable voltage limit
- · Adjustable delay time
- · Indicators for voltage fault
- · Indicators for power and output ON

Product Description

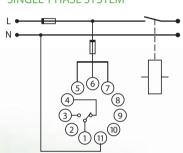
MX160A, MX180A & MX200A are single or 3-phase monitoring relays. The relays are designed for application where it required to maintain the voltage within set limits. A built-in adjustable time delay prevents nuisance tripping.

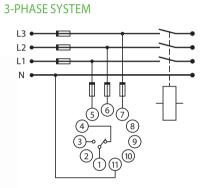
onder a over voltage neta



MX180A

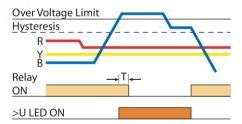
SINGLE-PHASE SYSTEM



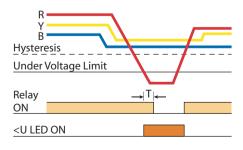


OPERATIONS DIAGRAM

i) Over Voltage Function**



ii) Under Voltage Function*





Moving Technology

Technical Data

POWER SU PPLY INPUT

3-Phase / Single phase : 415 V AC \pm 20% / 240 VAC \pm 20%

> $400 \text{ V AC} \pm 20\% / 230 \text{ VAC} \pm 20\%$ $380 \text{ V AC} \pm 20\% / 220 \text{ VAC} \pm 20\%$

Frequency range : 45 to 65 Hz :3 VA

Max. power consumption

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 * : 78% - 98% Upper voltage limit ** : 102% - 122% Delay time, T : 0.1 - 10s

HYSTERESIS 1% of rms - value

CONTACT OUTPUT

Cotact arrangement : SPDT change-over contacts. Contact rating :5A, 250 V AC (cos = 1)

Contact material : Silver alloy

Expected electrical life : 100,000 operations at rated current

:5 x 10⁶ operations Expected mechanical life

INDICATORS

Power supply ON : Green indicator **Output ON** : Red indicator Under voltage limit (U<) * : Red indicator Over voltage limit (U>) ** : Red indicator

MECHANICAL

Mounting : Circular 11-pin plug-in socket

Approximate weight : 0.25kg

ENVIRONMENTAL CONDITIONS

: -5 C t o +55 C Temperature

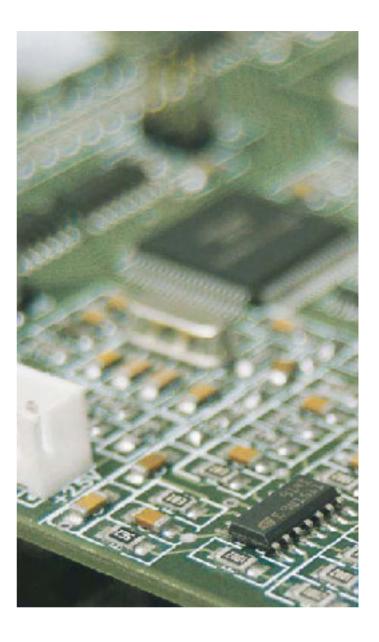
Humidity : 56 days at 93% RH and 40 C

non-condensing

- * Applicable to MX160A and MX200A only
- ** Applicable to MX180A and MX200A only
- *** For single phase connection, short pin 5,6 & 7

CASE DIMENSIONS





Ordering Information

MODEL	FUNC Under Voltage Monitoring	Over Voltage	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