MX100/50

MX100
Phase Sequence &
Phase Failure monitoring

MX50
Phase Failure monitoring

Features

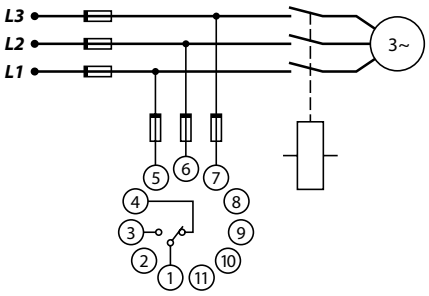
- Electronic monitoring relay
- Phase sequence monitoring*
- Phase failure monitoring
- Plug-in type module
- Indicators for power and alarm status

Introduction

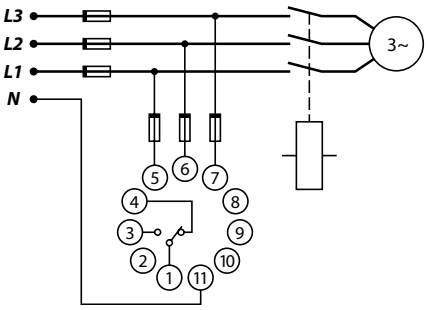
This phase sequence and phase failure relay is designed for application where the 3-phase supply needs to be continuously monitored for proper sequencing and phase loss. Commonly used to protect a 3-phase motor.

WIRING DIAGRAMS

Example 1



Example 2



FUNCTION TABLE

Condition	Pin 5	Pin 6	Pin 7	Relay	Remark
1	L1	L2	L3	ON	System healthy
2	Loss	L2	L3	OFF	Phase failure
3	L1	Loss	L3	OFF	Phase failure
4	L1	L2	Loss	OFF	Phase failure
5	L2	L1	L3	OFF	Sequence fault*
6	L3	L2	L1	OFF	Sequence fault*

* Applicable to MX100 model only

Technical Data

POWER SUPPLY INPUT

Phase-to-phase voltage	: 415 V AC ±15%
	: 400 V AC ±15%
	: 380 V AC ±15%
	: 220 V AC ±15%
Frequency range	: 45 to 65 Hz
Max power consumption	: 3 VA
Input connections	: Phase L1 to pin 5
	Phase L2 to pin 6
	Phase L3 to pin 7
	Neutral (optional) to pin 11

CONTACT OUTPUT

Contact arrangement	: SPDT change-over contacts
Contact rating	: 5 A, 250 V AC (cosφ = 1)
Contact material	: Silver alloy
Expected electrical life	: 100,000 operations at rated current
Expected mechanical life	: 5 x 10^6 operations

INDICATORS

Power supply ON	: Green indicator
Output ON	: Red indicator

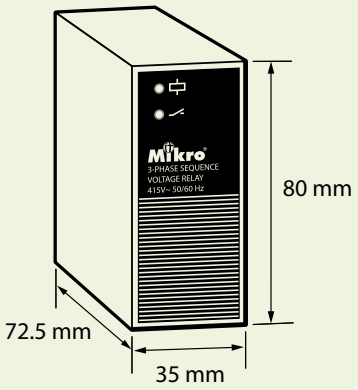
MECHANICAL

Mounting	: Circular plug-in socket
Approximate weight	: 0.25 kg

ENVIRONMENTAL CONDITIONS

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

CASE DIMENSIONS



Ordering Information

MODEL	DESCRIPTION
MX100 - 220	Auxiliary voltage 220 V AC
MX100 - 380	Auxiliary voltage 380 V AC
MX100 - 400	Auxiliary voltage 400 V AC
MX100 - 415	Auxiliary voltage 415 V AC
MX50 - 220	Auxiliary voltage 220 V AC
MX50 - 380	Auxiliary voltage 380 V AC
MX50 - 400	Auxiliary voltage 400 V AC
MX50 - 415	Auxiliary voltage 415 V AC