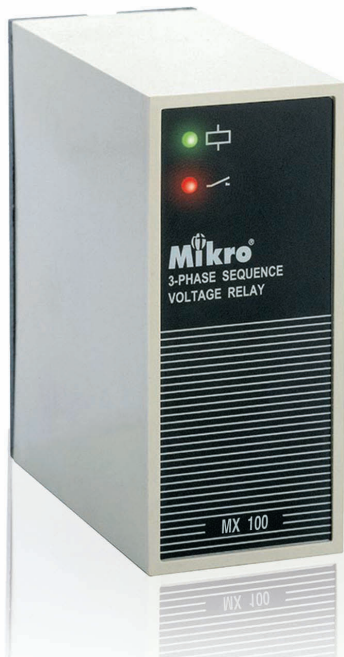


# MX100 50



## Features

- Electronic monitoring relay
- Phase sequence monitoring\*
- Phase failure monitoring
- Plug-in type module
- Indicators for power and alarm status
- ANSI Code : 47

## Product Description

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.

## Technical Data

### POWER SUPPLY INPUT

Phase-to-phase voltage	: 230 V AC $\pm$ 20%
	: 400 V AC $\pm$ 20%
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

### OUTPUT CONTACTS

Rated voltage	: 250 V AC
Contact rating	: 5 A
Expected electrical life	: 100,000 operations at rated current
Expected mechanical life	: $5 \times 10^6$ operations

### INDICATORS

Power supply ON	: Green indicator
Output ON	: Red indicator

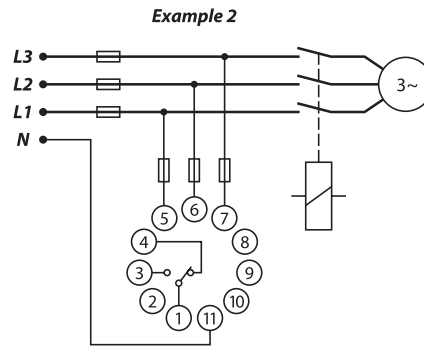
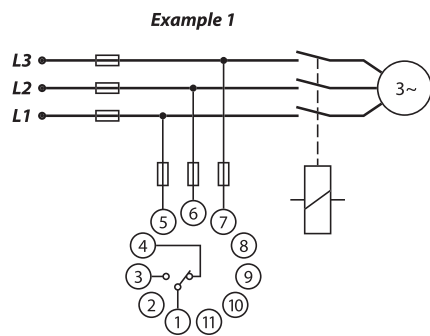
### ENVIRONMENTAL CONDITIONS

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

### MECHANICAL

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

## Wiring Diagram

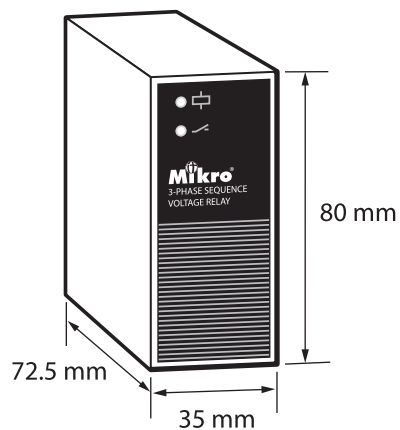


## Function Table

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

\* Applicable to MX100 model only

## Case Dimensions



## Ordering Information

MODEL	DESCRIPTION
MX100 - 230	Auxiliary voltage 184~276 V AC
MX100 - 400	Auxiliary voltage 320~480 V AC
MX50 - 230	Auxiliary voltage 184~276 V AC
MX50 - 400	Auxiliary voltage 320~480 V AC