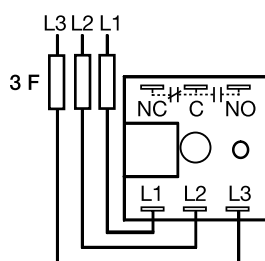


CE



F = 2A Fast acting fuses are recommended, but not required

MODEL	LINE VOLTAGE	VOLTAGE UNBALANCE	TRIP DELAY	RESTART DELAY
TVM208A100.5S3S	208VAC	10%	0.5s	3s
TVM230A101S1S	230VAC	10%	1s	1s
TVM460A41S5M	460VAC	4%	1s	5m
TVM460A75S2M	460VAC	7%	5s	2m
TVM480A45S5S	480VAC	4%	5s	5s
TVM480A100.5S3S	480VAC	10%	0.5s	3s

FEATURES	BENEFITS
Proprietary microcontroller based circuitry	Constant monitoring to protect against phase loss, phase reversal; over, under, and unbalanced voltage; short cycling
Compact design measures 2 in. (50.8mm) square	Perfect for OEM applications where cost, size and ease of installation are important
LED indication	Provides diagnostics of relay, fault and time delay status
Encapsulated	Protects against shock, vibration and humidity

TVM SERIES

Accessories



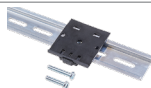
LPSM003ZXID (Indicating), LPSM003Z (Non-indicating) Fuse Holders
Littelfuse POWR-SAFE Dead Front holders provide optimum protection to personnel for Class CC and Midget-Style fuses. 600 VAC/DC



OKLK002.T Midget Fuse (2 Amp)
10 x 38 fast acting, high-interrupting capacity, current-limiting type fuse. 600 Vac/500 Vdc



P1015-13 (AWG 10/12), P1015-64 (AWG 14/16), P1015-14 (AWG 18/22) Female Quick Connect
These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



P1023-20 DIN Rail Adapter
Allows module to be mounted on a 35 mm DIN type rail with two #10 screws.



VRM6048 Voltage Reduction Module
Allows the voltage monitor to monitor a 3-phase 550 to 600VAC Line.

Specifications

Line Voltage Type

3-phase delta or wye with no connection to neutral

Input Voltage

208 to 480VAC

AC Line Frequency

50 - 100 Hz

Phase Sequence

ABC

Power Consumption

Approx. 2W for 240V units
Approx. 3W for 480V units

Overvoltage, Undervoltage, & Voltage Unbalance

Overvoltage & Undervoltage

Voltage detection with delay trip & automatic reset

Undervoltage Trip Point

88 - 92% of the selected line voltage

Reset Voltage

≅ +3% of trip voltage

Overvoltage Trip Point

109 - 113% of the selected line voltage

Reset Voltage

≅ -3% of trip voltage

Trip Variation vs Temperature

≤ ±2%

Voltage Unbalance

Factory fixed from 4 - 10%

Reset On Balance

≅ -0.7% unbalance

Tripping Delay Range

Fixed from 0.2 - 100s ±15% or ±0.1s, whichever is greater

Restart Delay Range

Fixed from 0.5s - 999m ±15% or ±0.2s, whichever is greater

Phase Reversal & Phase

Loss Response

≤ 200ms; automatic reset

Phase Loss

≥ 25% unbalance

Output

Type

Isolated SPDT relay contacts

Rating

208 to 240VAC (55°C)

10A resistive @ 125VAC, 5A @ 250VAC, 1/4 hp @ 125VAC

380 to 480VAC

10A resistive @ 240VAC, 1/4 hp @ 125VAC, 1/3 hp @ 250VAC, max. voltage 277VAC
Mechanical - 1 x 10⁶; Electrical - 1 x 10⁵

Life

Protection

Phase Reversal/Failure

ASME A17.1 Rule 210.6

Motors and Generators

NEMA MG1 14.30, 14.35

Surge

IEEE C62.41-1991 Level B

Dielectric Breakdown

208 to 240VAC

≥ 1500V RMS input to output terminals

380 to 480VAC

≥ 2500V RMS input to output terminals

Mechanical

Mounting

Surface mount with one #8 (M5 x 0.8) screw

Dimensions

H 50.8 mm (2.0"); **W** 50.8 mm (2.0");

D 31.75 mm (1.25")

Termination

0.25 in. (6.35 mm) male quick connect terminals

Environmental

Operating/Storage

Temperature

-40° to 55°C / -40° to 85°C

Humidity

95% relative, non-condensing

Weight

≅ 2.8 oz (79 g)