240VAC Three Phase Transient Voltage Filters

TFD

Specifications

Electrical

Input Voltage:
up to 240VAC, 3Ø Max.
Frequency:
50/60 Hz
Resistor: 7 watts
Bleeding Resistor: 1 megohms, 1/2 watt
Power Consumption: 37 watts @ 600VAC

Physical

Mounting: Din Rail or Surface
Termination: Terminal Block or #16 Stranded Wire Leads
Packaging: Dust Cover
Weight: 12 Oz.

Ambient Temperatures

Operating: -40°C to 85°C
Storage: -40°C to 85°C

- Din Rail or Surface Mounting
- 240 Volt UL Type Approval
- Delta Configuration
- Three Phase (3Ø) Applications
- Bleeding Resistor Option
- Terminal Block or Leads

c UL us
E71902
STANDARD 508

Ordering Information

TF D R - 220 .5 - 30

R-K Model

Arrangement
D - Delta

Case
R - Din Rail
S - Surface Mount

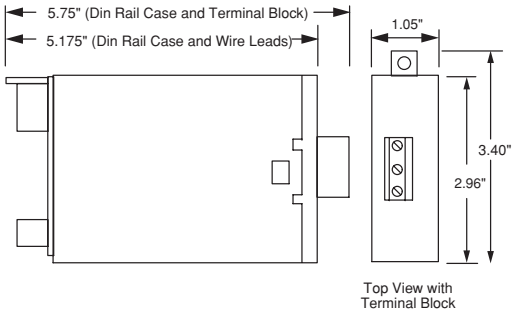
Resistor
220 - 220 Ohms
100 - 100 Ohms
18 - 18 Ohms

Capacitor
.5 - 0.47 microfarad
.3 - 0.33 microfarad
.2 - 0.22 microfarad
.1 - 0.10 microfarad

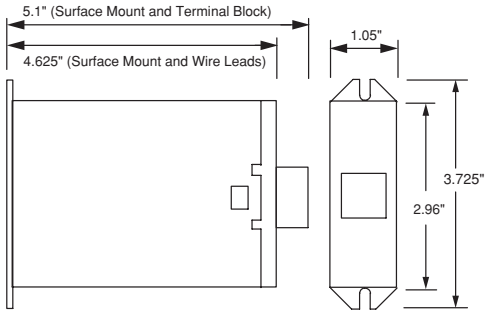
Lead Length
30 - 30 Inches
__ - Specify Lead Length
TB - Terminal Block

Resistor Option
R - Bleeding Resistor

Dimensions

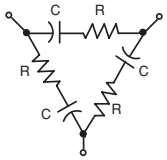


Top View with Terminal Block

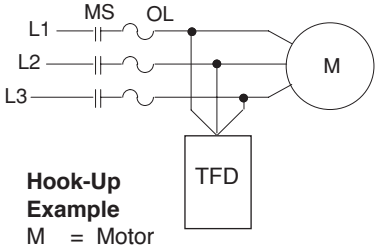


Top View with Wire Leads

Connections



TFD_-_-_



Hook-Up Example
M = Motor
MS = Motor Starter
OL = Overloads

Operation

Transient Voltage Filters
TVFs are applied to circuits where transient electrical voltage spikes can cause a malfunction or damage in solid state controls or control systems (PLCs, CNCs, NCs, Solid State Counters, etc.). The TFD is typically applied in parallel with three phase inductive loads (motors) to absorb the transients generated when the load is disconnected from the line. It also absorbs electrical noise while the load is operating. The Bleeding Resistor allows the voltage that builds up on the capacitor in the TFD to bleed off after voltage is removed. The Bleeding Resistor is typically used in applications where the control with the TFD may be operated (tested) without the load (motor) connected.