Single Phase & Three Phase Combo Transient Voltage Filters

RCM

Specifications

Electrical

Input Voltage:
AC/AC:
1Ø: Up to 120VAC, 50/60Hz
3Ø: Up to 240VAC, 50/60Hz
DC/AC:
DC: Up to 250VDC
3Ø: Up to 240VAC, 50/60 Hz
Capacitance:
0.47 microfarads, ±10%
Resistance:
22 to 680 ohms, ±10%, 0.5 watt
Diode: 1 Amp, 1000 PIV
Power Consumption:
10VA @ 240VAC

Physical

Termination: Terminal Blocks or #18 Stranded Wire Leads
Packaging: Epoxy Filled
Weight: 6 Oz.

Ambient Temperatures

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

- **Suppress Coil & Three Phase Load**
- **AC Coil up to 120VAC, Single Phase**
- **DC Coil 6-250VDC**
- **Motor up to 240VAC Three Phase**
- **Screw Terminals or Stranded Wire Leads**

E71902
STANDARD 508

LR43414

Ordering Information

RC M 2 B B - TB

R-K Model

Arrangement
M - Single Phase & Three Phase

Voltage Series
2 - (AC/AC)
Coil 1Ø, 120VAC Nom.
Motor 3Ø, 208-240VAC Nom.
D - (DC/AC)
Coil 6-250VDC
Motor 3Ø, 208-240VAC Nom.

DIN Rail Bracket #DRB-2

3Ø Resistor
A - 220 Ohms
B - 22 Ohms
C - 33 Ohms
D - 47 Ohms
E - 68 Ohms
F - 82 Ohms
G - 100 Ohms
H - 150 Ohms
J - 180 Ohms
K - 330 Ohms
L - 470 Ohms
M - 680 Ohms

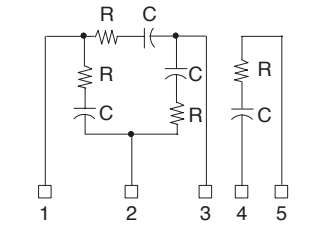
1Ø Resistor
A - 220 Ohms
B - 22 Ohms
C - 33 Ohms
D - 47 Ohms
E - 68 Ohms
F - 82 Ohms
G - 100 Ohms
H - 150 Ohms
J - 180 Ohms
K - 330 Ohms
L - 470 Ohms
M - 680 Ohms
S - 10 Ohms
W - Jumper (DC)

Termination
TB - Terminal Block
__ - Specify Lead Length in inches

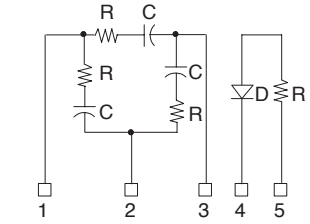
Operation

Transient Voltage Filters
The RCMs were designed for applications where a three phase network and a single phase network would be used together. The single phase would be applied in parallel with the single phase load (starter coil). The three phase network would be applied to a three phase load (motor). R-C networks are applied to circuits where transient electrical voltages can cause a malfunction or damage in solid state controls or control systems (PLCs, CNCs, NCs, Solid State Counters, etc.).

Connections

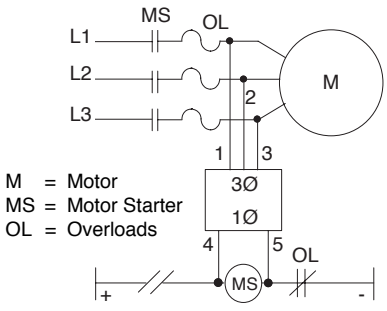


(AC/AC)



(DC/AC)

HOOK-UP EXAMPLE:
The RCM is designed so that the Three Phase network can be connected to the load side of the starter (240VAC max.) and the Single Phase network can be connected across the starter coil (MS).



M = Motor
MS = Motor Starter
OL = Overloads

Dimensions