



DataSheet PCB Mount

PF Series

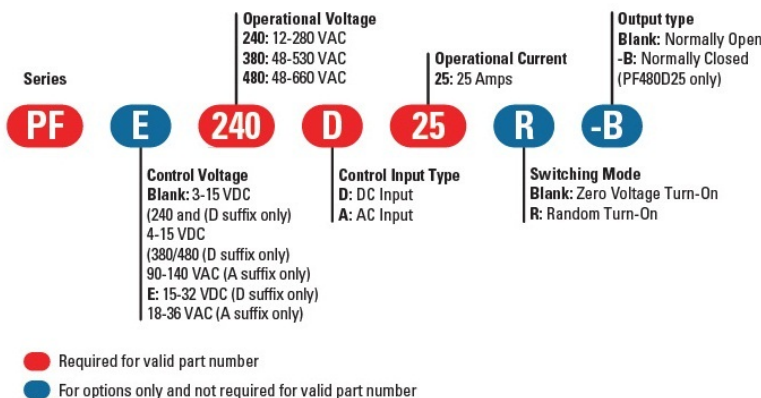


- SIP SSR
- Ratings to 25A (forced air) @ 480 VAC
- SCR output for heavy industrial loads
- AC or DC control
- Zero-crossing (resistive loads) or random-fire (inductive loads) output

PRODUCT SELECTION

Control Voltage	25A	25A	25A
3-15 VDC	PF240D25		
4-15 VDC		PF380D25	PF480D25
15-32 VDC	PFE240D25	PFE380D25	PFE480D25
18-36 VAC	PFE240A25		
90-140 VAC	PF240A25		

AVAILABLE OPTIONS



OUTPUT SPECIFICATIONS (1)

Description	PF240	PF380	PF480
Operating Voltage (47-63Hz) [Vrms]	12-280	48-530	48-660
Transient Overvoltage [Vpk]	600	1200	1200
Maximum Off-State Leakage Current @ Rated Voltage [mA]	0.1	0.1	0.1
Minimum Off-State dv/dt @ Maximum Rated Voltage [V/μsec] (2)	500	500	500
Maximum Load Current (Convection Air) [Arms] (3)	10	10	10
Maximum Load Current (Forced Air) [Arms] (3)	25	25	25
Minimum Load Current [Arms]	0.06	0.06	0.06
Maximum Surge Current (16.6ms) [A _{pk}]	250	250	250
Maximum On-State Voltage Drop @ Rated Current [Vpk]	1.6	1.6	1.6
Maximum I ² t for fusing (8.3 msec) [A ² sec]	260	260	260
Minimum Power Factor (with Maximum Load)	0.5	0.5	0.5



PCB Mount DataSheet

INPUT SPECIFICATIONS (1)

Description	PF240D25	PF380D/480D	PFE _{xx} D25	PF240A25	PFE240A25
Control Voltage Range	3-15 VDC	4-15 VDC	15-32 VDC	90-140 VAC	18-36 VAC
Maximum Turn On Voltage	3.0 VDC	4.0 VDC	15.0 VDC	90.0 Vrms	18.0 Vrms
Minimum Turn-Off Voltage	1.0 VDC	1.0 VDC	1.0 VDC	10.0 Vrms	2.0 Vrms
Typical Input Current @ Nominal Voltage	15 mAdc	15 mAdc	15 mAdc	10 mAdc	10 mAdc
Nominal Input Impedance	300 Ohm	240 Ohm	1500 Ohm	14.1 k Ohm	2.1 k Ohm
Maximum Turn-On Time [msec] (4)	1/2 Cycle	1/2 Cycle	1/2 Cycle	10	10
Maximum Turn-Off Time [msec]	1/2 Cycle	1/2 Cycle	1/2 Cycle	40	40

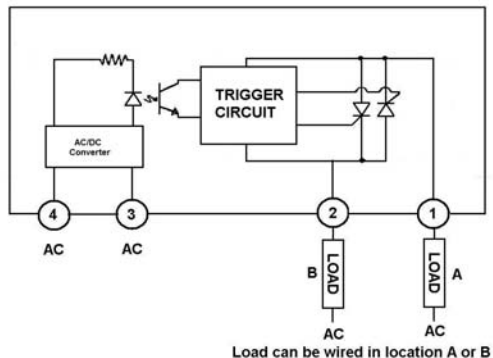
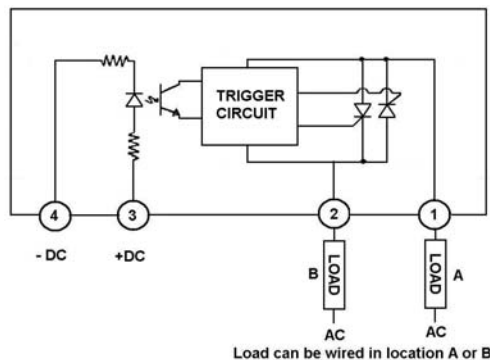
GENERAL SPECIFICATIONS

Description	Parameters
Dielectric Strength, Input/Output/Base (50/60Hz)	4000 Vrms
Minimum Insulation Resistance (@ 500 VDC)	10 ⁹ Ohm
Maximum Capacitance, Input/Output	8 pF
Ambient Operating Temperature Range	-30 to 80°C
Ambient Storage Temperature Range	-30 to 125°C
Weight (typical)	0.85 oz. (25g)
Encapsulation	Thermally Conductive Epoxy

GENERAL NOTES

- 1) All parameters at 25°C unless otherwise specified.
- 2) Off-State dv/dt test method per EIA/NARM standard RS-443,13.11.1
- 3) Heatsink temperature 85°C Maximum for 25A forced air cooling.
- 4) Turn-On Time for Random Turn-On versions 0.1 msec (DC Control Models)

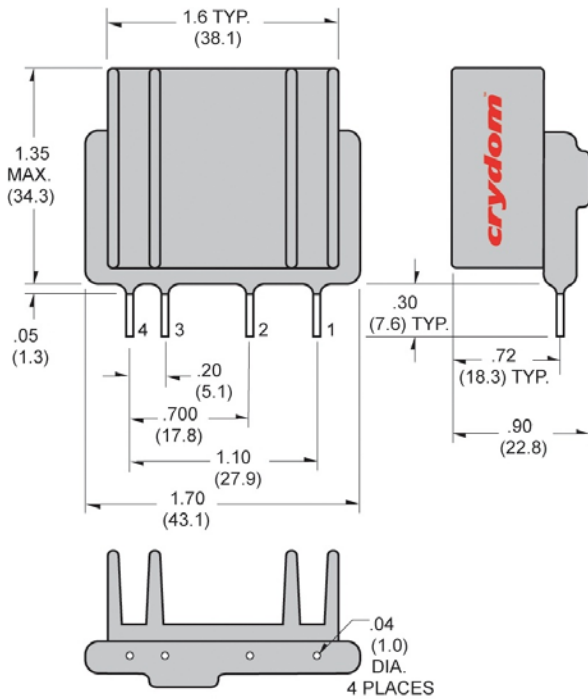
WIRING DIAGRAM





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MECHANICAL SPECIFICATIONS



All dimensions are in inches (millimeters)

THERMAL DERATE INFORMATION

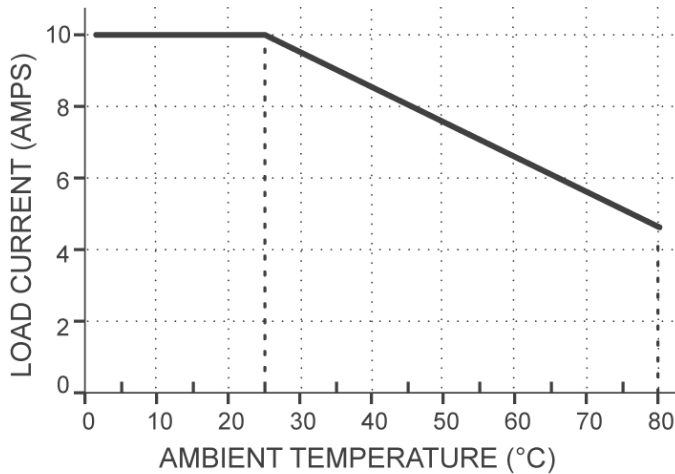


Fig.1 Convection Cooling

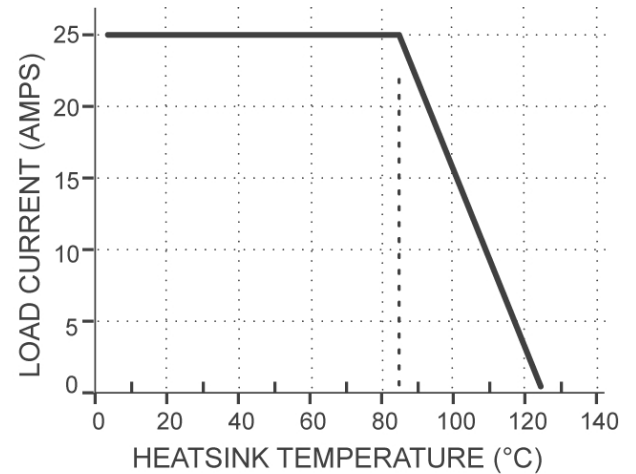
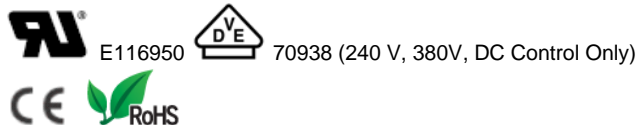


Fig.2 Forced Air Cooling

AGENCY APPROVALS



Rev. 112911