

AC to AC PANEL MOUNT SOLID STATE RELAY

Features include:

- 10 to 150Amp AC
- 12-480VAC
- AC Control
- Control Input Green LED & Output Revers Red LED
- Blocking voltage 800 to 1200V
- MOV protected Output (Optional)
- Transient Immunity to 2000Vdc/ μ Sec
- Zero Cross Synchronized
- Din Rail Mounted (Optional)
- IP20 Output Cover
- 4000V Isolation
- N/O Configuration
- Free From EMI/RFI
- Noise Less Switching



Specification

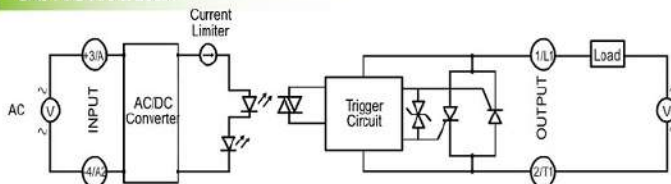
Output Load

RMS on State Current	IT	A	10	16	25	40	50	60	75	90	100	125	150
Output RMS Amp With Heatsink	IT	A	7	11	18	28	35	42	52	63	70	87	105
Main Control Output Voltage	Vrms	Vac	12-480	12-480	12-480	12-480	12-480	12-480	12-480	12-480	12-480	12-480	12-480
Peak Off state Blocking Voltage	Vdrm	Vpk	800	800	800	800	1200	1200	1200	1200	1200	1200	1200
Peak one single cycle Current, 50Hz (Non-Rep)	I _{tsm}	A	100	160	250	400	520	750	800	870	1020	1200	1450
On state Voltage Drop	V _{tm}	Vac	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Off state Leakage Current	I _{drm}	mA	5	5	5	5	5	5	5	5	5	5	5
Critical Rate of Rise off State Voltage	dv/dt	V/ μ s	400	400	500	500	500	500	500	500	500	500	500
Holding Current	I _h	mA	50	50	75	80	100	150	200	100	100	125	150
Fusing Current	I ² T	A ² S	55	144	340	880	2800	3500	7000	10000	10000	12500	15000
Turn-On (Zero/Random)	T-on	ms	40	40	40	40	40	40	40	40	40	10/0.1	10/0.1
Turn-Off (Zero/Random)	T-off	ms	80	80	80	00	00	00	70	80	80	10	10
Full Current Baseplate Temperature	Max.	°C	90	90	90	90	90	90	90	90	90	100	100
Frequency Range	F	Hz	47-63	47-63	47-63	47-63	47-63	47-63	47-63	47-63	47-63	47-63	47-63
Operating Temperature	Temp.	°C	-30/+80	-30/+80	-30/+80	-30/+80	-30/+80	-30/+80	-30/+80	-30/+80	-30/+80	-30/+80	-30/+80
Power Dissipation	Watts	Amp	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2

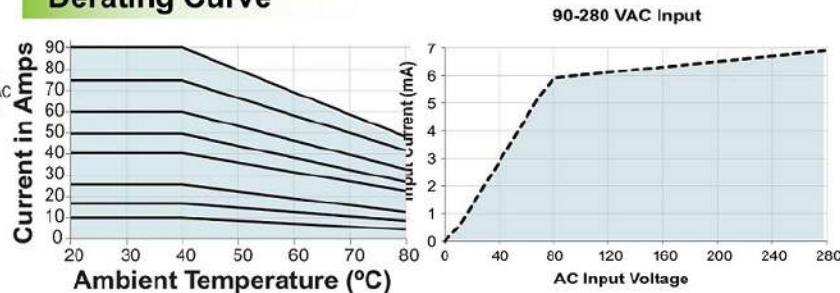
Input Signal

AC Control Voltage	VAC	90-280	90-280	90-280	90-280	90-280	90-280	90-280	90-280	90-280	90-280	90-280	90-280
AC Control Current	mA	9-25	9-25	9-25	9-25	9-25	9-25	9-25	9-25	9-25	9-25	9-25	9-25
Pick-up Voltage	VAC	90	90	90	90	90	90	90	90	90	90	90	90
Drop-out Voltage	VAC	45	45	45	45	45	45	45	45	45	45	45	45
Input Resistance (K)	Ohms	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	11	11

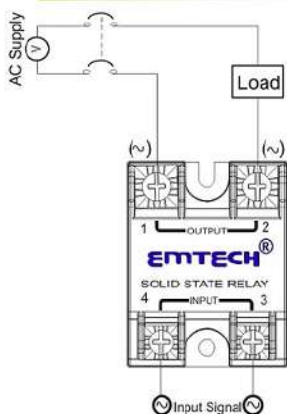
Schematic



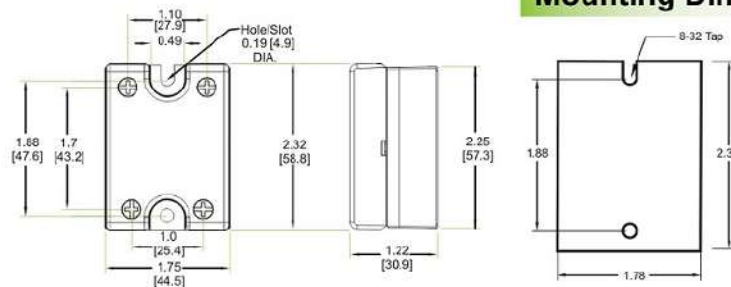
Derating Curve



Wiring Diagram



Mounting Dimension



General, All Models

Case Material	UL V0 Lexan
Output Terminal Torque	20 in/lbs
Control Terminal Torque	6 in/lbs
Mounting Screw Torque	15 in/lbs
Ambient Temperature	-40°C to 85°C
Wire Gauge, Output	(2) 8 awg Max.
Wire Gauge, Control	(2) 12 awg Max.

Precaution

- * To protect SSR from short circuits, use fuse with an I²T de-rating specification less than 33% of the SSR.
- * Heatsink on vertical surface with vertical fins, 40°C free air 4" above and 1" below and TPST under SSR.