DIN Ready Solid State Relay



HIGHLIGHTS

- INPUT: DC CONTROL (TTL or CMOS COMPATIBLE)
- OUTPUT: BACK-TO-BACK SCR
- OPTO ISOLATION 2500 VAC (4000 V optional)
- ZERO VOLTAGE TURN-ON or RANDOM TURN-ON
- BUILT IN SAFETY COVER
- REVERSE VOLTAGE PROTECTION FOR DC/AC RELAYS
- BUILT IN SNUBBER FOR HIGH DV/DT
- DIN MOUNT OR BACK PLATE MOUNTING
- LED INDICATOR SHOWING RELAY 'ON' STATUS

(J: Zero voltage turn-on; K: Random turn-on)

ELECTRICAL SPECIFICATIONS

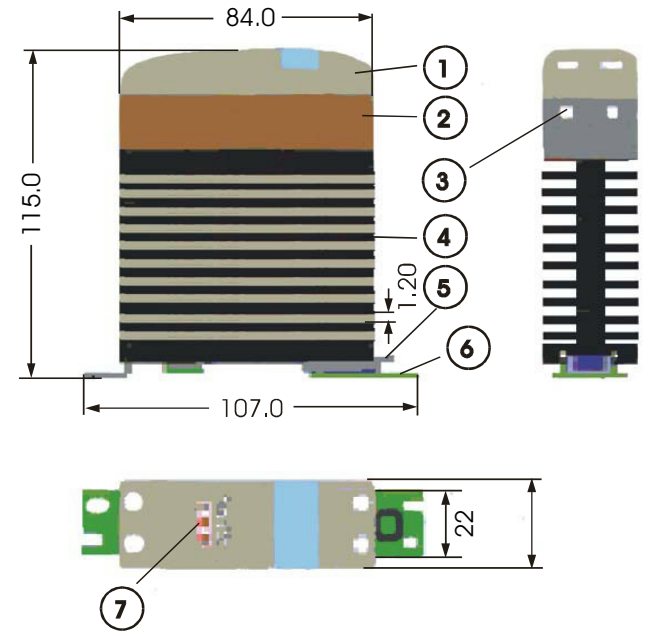
Parameter	Symbol	Type				Unit
		PSB DIN 30D 661000	PSB DIN 30D 661600	PSB DIN 30D 662500	PSB DIN 30D 664000	
DC CONTROL						
Control voltage range		4-32	4-32	4-32	4-32	Vdc
Control current range		8-30	8-30	8-30	8-30	mA
Pick-up voltage		3.0	3.0	3.0	3.0	Vdc
Drop-out voltage		1.0	1.0	1.0	1.0	Vdc
Input resistance		Current regulator				
OUTPUT						
Mains control voltage	V_{RMS}	48-660	48-660	48-660	48-660	Vac
Repetitive peak off state voltage	V_{DRM}	1200	1200	1200	1200	Vpk
RMS on-state current	I_T	10	16	25	40	A
Zero turn-on voltage		35	35	35	35	Vac
On-state voltage drop	V_{TM}	1.6	1.6	1.8	1.8	Vac
Off-state leakage current @ rated voltage	I_{DRM}	5	5	5	5	mA
Peak one cycle surge current (non-Rrep)	I_{TSM}	100	250	1000	1000	A
Holding current	I_H	75	120	250	250	mA
Critical rate of rise of off-state voltage	dv/dt	200	200	700	700	V/µs
Thermal resistance (junction to case)	R_{thjc}	1.8	1.3	0.43	0.43	K/W
Frequency range	f	47-63	47-63	47-63	47-63	Hz
Storage temperature	To	-30 to +100	-30 to +100	-30 to +100	-30 to +100	°C
Operating temperature	T_O	-30 to +80	-30 to +80	-30 to +80	-30 to +80	°C
Turn-on time	T-on	10	10	10	10	ms
Turn-off time	T-off	10	10	10	10	ms
Fusing current	I^2t	72	128	3700	5000	A^2s

ALL ELECTRICAL PARAMETERS MEASURED @ T_A= 25 DEG C

released, E 197669

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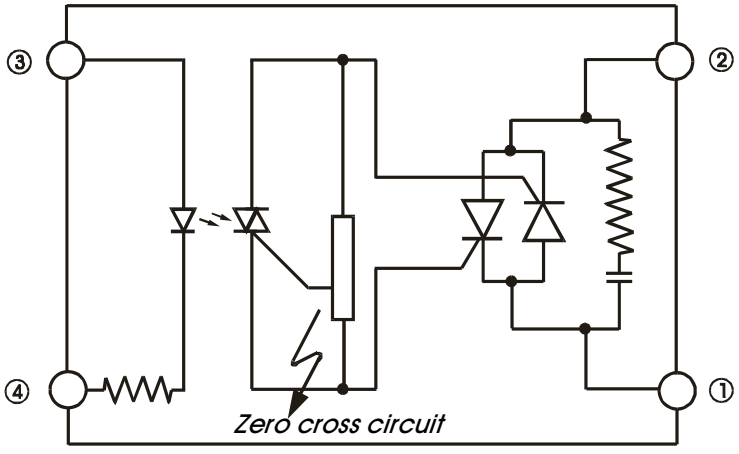
DIN Ready Solid State Relay



1. COVER
2. CASE
3. SPACER
4. HEAT SINK
5. CLIP ASSEMBLY
6. CLAMP
7. LED LOCATION

Features of DIN Ready SSR

- AC SOLID STATE CONTRACTOR IN 30 mm HOUSING
- ZERO SWTICHING FOR HEATING AND MOTOR APPLICATIONS/RANDOM SWITICHING
- RATED OPERATIONAL CURRENT 10 A, 16 A & 25 A (40 A WITH FORCED COOLING
- RATED OPERATIONAL VOLTAGE 120/230 VAC, 400/480/660
- TRANSIENT OVER VOLTAGE PROTECTION (OPTICAL)
  LED INDICATOR SHOWING RELAY ‘‘ON’’ STATUS
- IP 20 PROTECTION
- DIN – RAIL AND BACK PLATE MPONTABLE
- CONNECTING TERMINALS LAYOUT AS CONTRACTOR OR SSR STANDARD
- OPTO-ISOLATION > 400 V
- BUILT IN SNUBBER

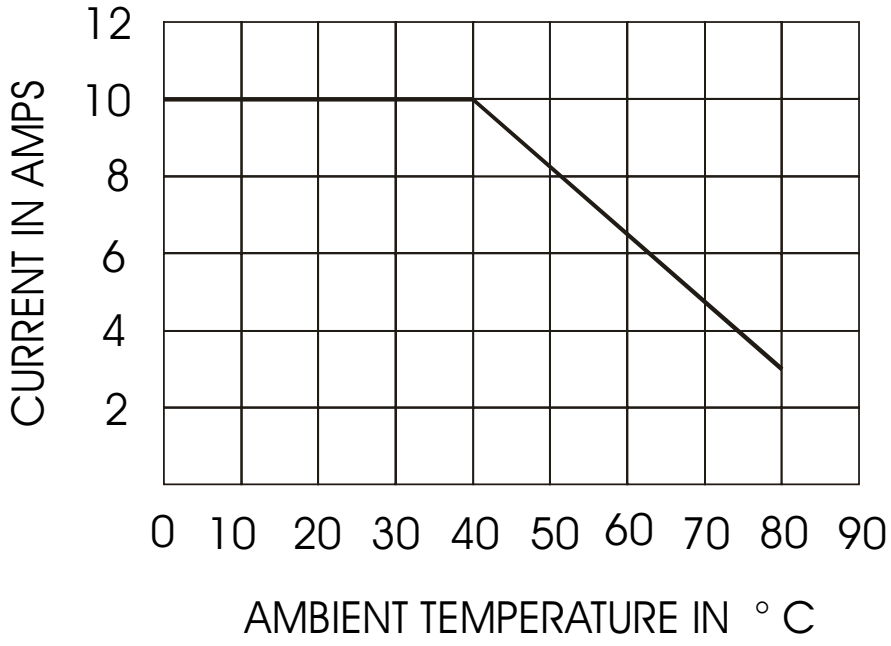


1 Output 3 Input (+)
2 Output 4 Input (-)

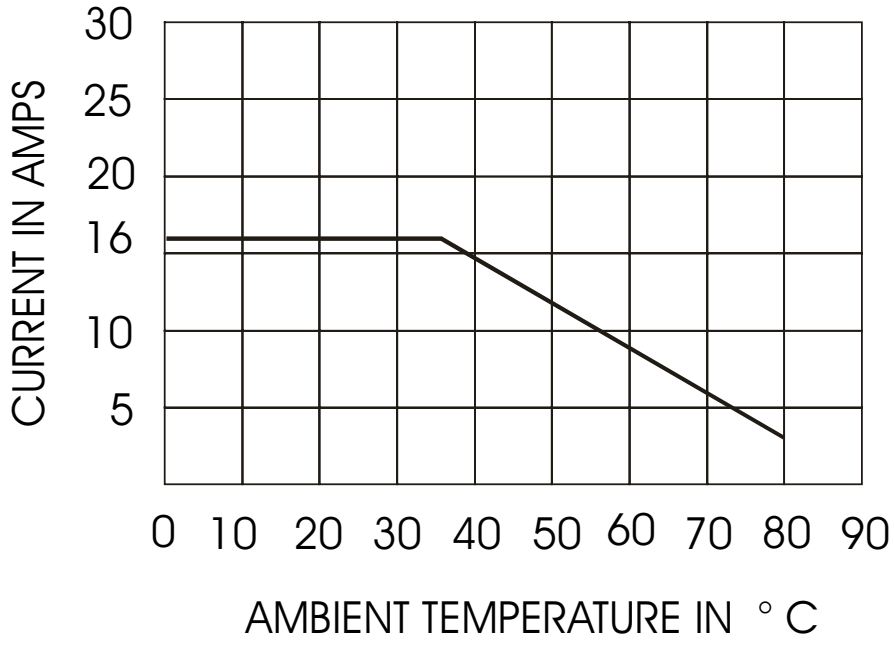
SCHEMATIC OF J & K SERIES
DC / AC RELAYS *DIN SSR's*

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DERATING CURVE FOR 10 A DIN SSR

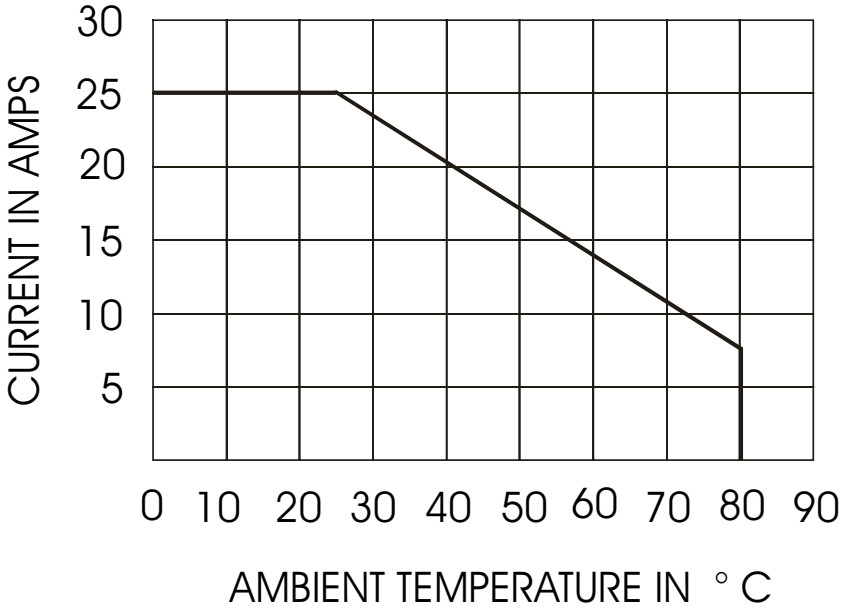


DERATING CURVE FOR 16 A DIN SSR

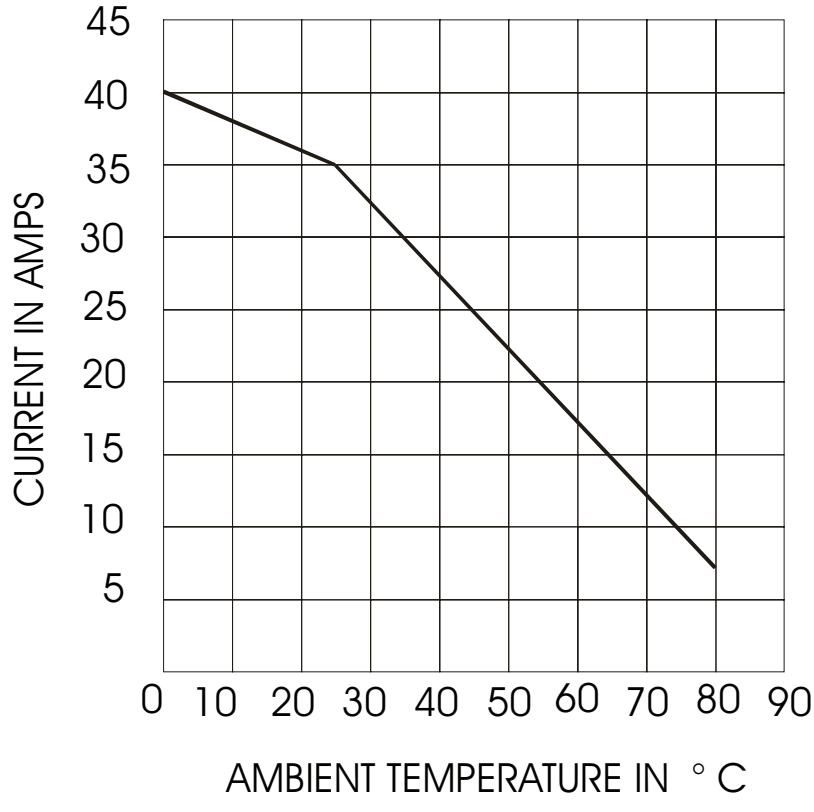


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DERATING CURVE FOR 25 A DIN SSR



DERATING CURVE FOR 40 A DIN SSR



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