

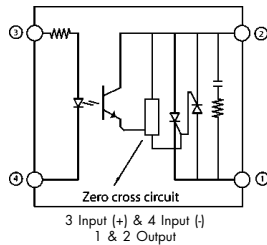
Single Phase SSR (660VAC)
50 ~ 90 Amps

INPUT : DC Control,
OUTPUT : Direct Copper Bonded Back - to - Back SCR

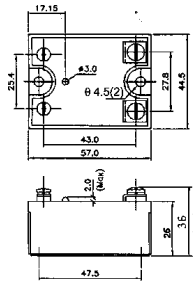
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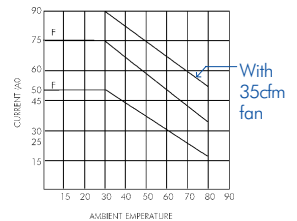
Schematic



Mechanical Drawing



Derating Curve



$$F = 0.14^{\circ}\text{C/W}$$

For Heatsink details refer to "Recommended Heatsink" chart

Salient Features

- Opto Isolation 2500 VAC • Zero Voltage Turn On/Random Turn On • Reverse Voltage Protection; TTL/CMOS Compatible (Sink mode)
- Output : NO Configuration • Safety cover provision • Built-In Snubber • Higher load cycle resistance • High thermal cycling capacity
- High Fusing current • Chassis Mountable / DIN Mountable with Integral heatsink.

Electrical Specification @ TA = 25°C

Note: For Random T - On SSR, add letter 'KD' in place of 'D'.

ELECTRICAL SPECIFICATIONS			PRODUCT PART NUMBERS		
Parameter	Symbol	Unit	020 D 125000	020 D 127500	020 D 129000
Control Volt Range		Vdc	4-32	4-32	4-32
Control Curr Range		m A	8-35	8-35	8-35
Pick-Up Voltage		Vdc	4.0	4.0	4.0
Drop-Out Voltage		Vdc	1.0	1.0	1.0
Input Resistance			Current Regulator	Current Regulator	Current Regulator
Rms On State Current	I_T	A	50	75	90
Mains Control Volt	Vrms	Vac	48-660	48-660	48-660
Peak Off State Voltage	Vdrm	Vpk	1200	1200	1200
Off State Leakage Curr	Idrm	mA	5	5	5
Zero T-On Voltage		Vpk	20	20	20
On state Voltage Drop	V _{TM}	Vac	1.6	2.0	2.0
Peak one Cycle Surge Curr(Non Rep)	I _{TSM}	A	500	1150	1350
Holding Current	I _H	m A	300	300	300
Critical Rate of Rise of Off State Voltage	dv/dt	V/μs	1000	1000	1000
Thermal Resistance	R _{TH}	°C/W	0.7	0.6	0.3
Frequency Range	f	Hz	47 ~ 63	47 ~ 63	47 ~ 63
Turn-On	T-On	ms	10	10	10
Turn-Off	T-Off	ms	10	10	10
Operating Temp	T Oper	°C	-30 to +80	-30 to +80	-30 to +80
Fusing Current	I _T ²	A ² S	1250	5000	5000

*Our policy is one of continuous development and specifications are subject to change without notice. Warranty is limited to a period of one year for relay value only.

Series : 020 D/KD

Input

Output

Single Phase SSR (660VAC)
125 ~ 205 Amps

INPUT : DC Control,
OUTPUT : Direct Copper Bonded Back - to - Back SCR

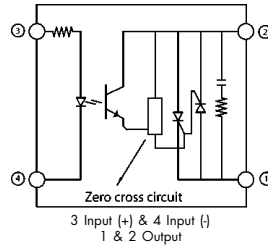
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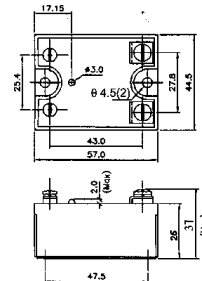
Series : 020 D/KD



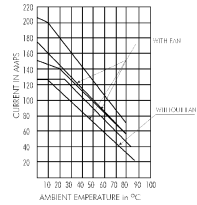
Schematic



Mechanical Drawing



Derating Curve



Heatsink $R_{th} = 0.14^{\circ}\text{C/W}$
with cooling fan of 70CFM for 125A &
100CFM for 150-205A

For Heatsink details refer to
"Recommended Heatsink" chart

Salient Features

- Opto Isolation 2500 VAC • Zero Voltage Turn On/Random Turn On • Reverse Voltage Protection; TTL/CMOS Compatible (Sink mode)
- Output : NO Configuration • Safety cover provision • Built-In Snubber • Higher load cycle resistance • High thermal cycling Capacity
- High Fusing current • Chassis Mountable / DIN Mountable with Integral heatsink.

Electrical Specification @ $T_A = 25^{\circ}\text{C}$

Note: For Random T - On SSR, add letter 'KD' in place of 'D'.

ELECTRICAL SPECIFICATIONS			PRODUCT PART NUMBERS			
Parameter	Symbol	Unit	020 D 1212500	020 D 1215000	020 D 1217500	020 D 1220500
Control Volt Range		Vdc	4-32	4-32	4-32	4-32
Control Curr Range		m A	8-35	8-35	8-35	8-35
Pick-Up Voltage		Vdc	4.0	4.0	4.0	4.0
Drop-Out Voltage		Vdc	1.0	1.0	1.0	1.0
Input Resistance			Current Regulator	Current Regulator	Current Regulator	Current Regulator
Rms On State Current	I_T	A	125	150	175	205
Mains Control Volt	Vrms	Vac	48-660	48-660	48-660	48-660
Peak Off State Voltage	Vdrms	Vpk	1200	1200	1200	1200
Off State Leakage Curr	Idrms	mA	5	5	5	5
Zero T-On Voltage		Vpk	20	20	20	20
On state Voltage Drop	V_{TM}	Vac	2.0	2.0	2.0	2.0
Peak one Cycle Surge Curr(Non Rep)	I_{TSM}	A	1350	1350	1500	2250
Holding Current	I_H	m A	300	500	500	500
Critical Rate of Rise of Off State Voltage	dv/dt	V/ μ s	1000	1000	1000	1000
Thermal Resistance	R_{TH}	$^{\circ}\text{C/W}$	0.35	0.35	0.25	0.1
Frequency Range	f	Hz	47 ~ 63	47 ~ 63	47 ~ 63	47 ~ 63
Turn-On	T-On	ms	10	10	10	10
Turn-Off	T-Off	ms	10	10	10	10
Operating Temp	T Oper	$^{\circ}\text{C}$	-25 to +80	-25 to +80	-25 to +80	-25 to +80
Fusing Current	I_T^2	A ² S	5000	8000	15000	25000

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Input

Output