

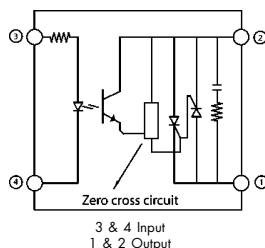
Single Phase SSR (660VAC)
50 ~ 90 Amps

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

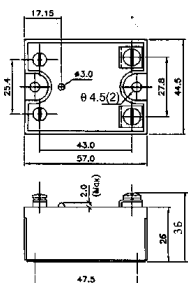
ERI®



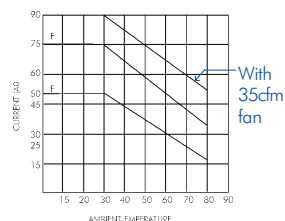
Schematic



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 • 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 'KA' in place of 'A'.

ELECTRICAL SPECIFICATIONS			PRODUCT PART NUMBERS		
Parameter	Symbol	Unit	020 A 125028	020 A 127528	020 A 129028
Control Volt Range		Vac	90-280	90-280	90-280
Control Curr Range		m A	9-18	9-18	9-18
Pick-Up Voltage		Vac	90	90	90
Drop-Out Voltage		Vac	45	45	45
Input Resistance		K Ohms	20.0(Typ)	20.0(Typ)	20.0(Typ)
Rms On State Current	I_T	A	50	75	90
Mains Control Volt	V _{rms}	Vac	48-660	48-660	48-660
Peak Off State Voltage	V _{drm}	Vpk	1200	1200	1200
Off State Leakage Curr	I _{drm}	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	40	40	40
Turn-Off	T-Off	ms	80	80	80
Operating Temp	T Oper	°C	-25 to +80	-25 to +80	-25 to +80
Fusing Current	I _T ²	A²S	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.

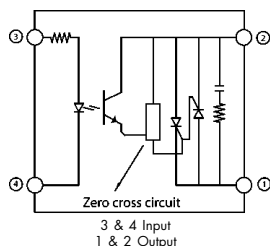
Series : 020 A/KA

Input

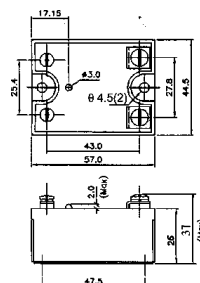
Output



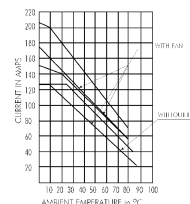
Schematic



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

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Electrical Specification @ TA = 25°C

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

ELECTRICAL SPECIFICATIONS			PRODUCT PART NUMBERS			
Parameter	Symbol	Unit	020 A 1212528	020 A 1215028	020 A 1217528	020 A 1220528
Control Volt Range		Vac	90-280	90-280	90-280	90-280
Control Curr Range		m A	9-18	9-18	9-18	9-18
Pick-Up Voltage		Vac	90	90	90	90
Drop-Out Voltage		Vac	45	45	45	45
Input Resistance		K Ohms	20.0(Typ)	20.0(Typ)	20.0(Typ)	20.0(Typ)
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	Vdr _m	Vpk	1200	1200	1200	1200
Off State Lekage Curr	Idrm	mA	5	5	5	5
Zero T-On Voltage			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/μs	1000	1000	1000	1000
Thermal Resistance	R _{TH}	°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	40	40	40	40
Turn -Off	T- Off	ms	80	80	80	80
Operating Temp	T Oper	°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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