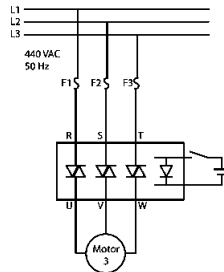


Three Phase SSR (480VAC)  
10 ~ 40 Amps

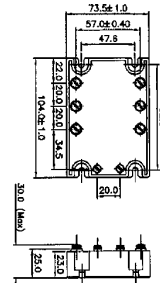
INPUT : AC Control,  
OUTPUT : Triac



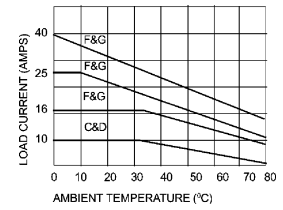
Schematic



Mechanical Drawing



Derating Curve



C & D = 0.5°C/W  
F & G = 0.14°C/W

For Heatsink details refer to  
"Recommended Heatsink" chart

### Salient Features

- Opto Isolation 2500 VAC
- Voltage Range 50 to 480 Vac
- Load Current 3x10A/16A/25A/40A

Electrical Specification @ TA = 25°C

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

ELECTRICAL SPECIFICATIONS			PRODUCT PART NUMBERS			
Parameter	Symbol	Unit	012 JAA 481028	012 JAA 481628	012 JAA 482528	012 JAA 484028
Control Volt Range		Vac	90-280	90-280	90-280	90-280
Control Curr Range		m A	8-80	8-80	8-80	8-80
Pick-Up Voltage		Vac	90	90	90	90
Drop-Out Voltage		Vac	45	45	45	45
Input Resistance		K Ohms	13.0(Typ)	13.0(Typ)	13.0(Typ)	13.0(Typ)
<b>Rms On State Current</b>	<b>I<sub>T</sub></b>	<b>A</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>40</b>
Mains Control Volt	V <sub>rms</sub>	Vac	50-480	50-480	50-480	50-480
Peak Off State Voltage	V <sub>drm</sub>	Vpk	800 ~ 1200	800 ~ 1200	800 ~ 1200	800 ~ 1200
Off State Leakage Curr	I <sub>drm</sub>	mA	10	10	10	10
Zero T-On Voltage		Vpk	20	20	20	20
On state Voltage Drop	V <sub>TM</sub>	Vac	1.6	1.6	1.85	1.85
Peak one Cycle Surge Curr(Non Rep)	I <sub>TSM</sub>	A	100	160	250	350
Holding Current	I <sub>H</sub>	mA	250	250	200	200
Critical Rate of Rise of Off State Voltage	dv/dt	V/μs	200	200	250	250
Thermal Resistance	R <sub>TH</sub>	°C/W	3.5	2.5	1.5	1.0
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	- 30 to + 80	- 30 to + 80	- 30 to + 80	- 30 to + 80
Fusing Current	I <sub>T</sub> <sup>2</sup>	A²S	50	120	260	610

\*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 : 012 J/K

Input

Output

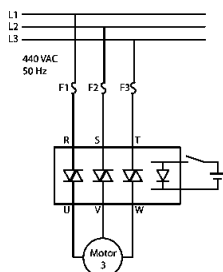
Three Phase SSR (480VAC)  
50 ~ 90 Amps

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

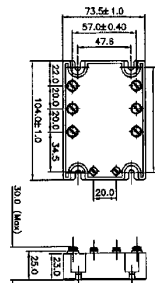
ERI®



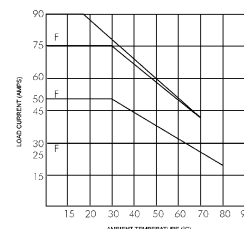
Schematic



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
- Voltage Range 50 to 480 Vac
- Load Current 3x50A/75A/90A

Electrical Specification @ TA = 25°C

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

ELECTRICAL SPECIFICATIONS			PRODUCT PART NUMBERS		
Parameter	Symbol	Unit	012 SJAA 485028	012 SJAA 487528	012 SJAA 489028
Control Volt Range		Vac	90-280	90-280	90-280
Control Curr Range		m A	8-80	8-80	8-80
Pick-Up Voltage		Vac	90	90	90
Drop-Out Voltage		Vac	45	45	45
Input Resistance		K Ohms	13.0(Typ)	13.0(Typ)	13.0(Typ)
<b>Rms On State Current</b>	<b>I<sub>T</sub></b>	<b>A</b>	<b>50</b>	<b>75</b>	<b>90</b>
Mains Control Volt	Vrms	Vac	50-480	50-480	50-480
Peak Off State Voltage	Vdrms	Vpk	800 ~ 1200	800 ~ 1200	800 ~ 1200
Off State Leakage Curr	Idrm	mA	10	10	10
Zero T-On Voltage		Vpk	35	35	35
On state Voltage Drop	V <sub>TM</sub>	Vac	2	2	2
Peak one Cycle Surge Curr(Non Rep)	I <sub>TSM</sub>	A	500	1150	1150
Holding Current	I <sub>H</sub>	m A	250	300	300
Critical Rate of Rise of Off State Voltage	dv/dt	V/μs	1000	1000	1000
Thermal Resistance	R <sub>TH</sub>	°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	- 30 to + 80	- 30 to + 80	- 30 to + 80
Fusing Current	I <sub>T</sub> <sup>2</sup>	A <sup>2</sup> S	1250	5000	5000

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