

# 3PHASE (DC TO AC / AC TO AC) (BACK TO BACK SCR/ ALTERNISTOR TRIAC)

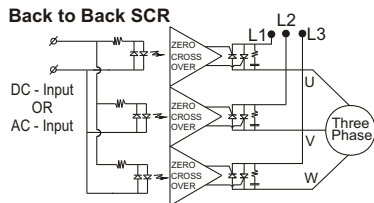
701 3PH model



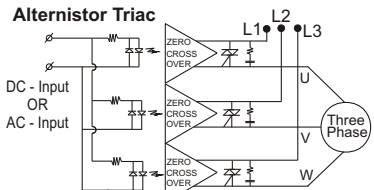
705 3PH model



**Back to Back SCR**



**Alternistor Triac**



- ⇓ Panel mounted S.S.R.,
- ⇓ Input -output opto Isolation
- ⇓ 2500Vrms
- ⇓ True Zero Cross Over
- ⇓ Virtually free from EMI / RFI
- ⇓ Input LED indication
- ⇓ Input TTL Compatibility
- ⇓ Noise less without chattering and Fast Switching
- ⇓ Output reverse LED indication in 3Phase
- ⇓ Output to body 4kV~ isolation
- ⇓ Heat Sink + Din Rail Mounting
- ⇓ Inbuilt snubber
- ⇓ Arcless Switching
- ⇓ Reverse polarity protection
- ⇓ Output N/O configuration

Screw type  
S.S.R. Weight : @100gms.  
Enclosure Material : Glass filled nylon (Flame Retardant)

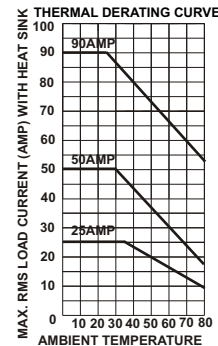
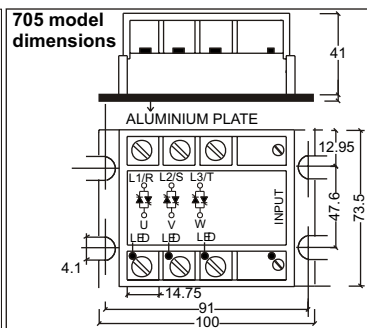
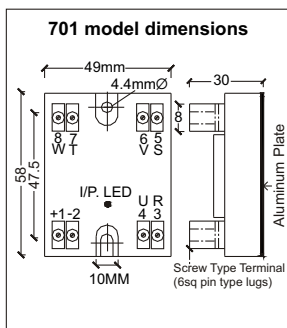
S.S.R. Weight : @280gms.

SSR TYPE NO	OUTPUT		EN-60947-4 Current Amp with Heat Sink at 55°C / AC53a	Fusing current I <sup>2</sup> T	Short Circuit Protection by "B" type M.C.B. In AC53a duty	Type of Heat Sink	Indian@ Rs./Each 100nos>	
	Voltage	Current amp AC51-20°C						
<b>DC TO AC (BACK TO BACK SCR) INPUT : 9VDC TO 32VDC, Min. 4mA - Max. 16mA</b>								
705 3PH ZDA 48 25 11	24 to	25	20	-	500A <sup>2</sup> S	-	E	1050.00
705 3PH ZDA 48 50 11	480VAC	50 AC - 1	38	15	3000A <sup>2</sup> S	16Amp	L	2000.00
705 3PH ZDA 48 90 11	PIV 1200VPK	90 AC - 1	65	30	7200A <sup>2</sup> S	32Amp	X/L	3300.00
<b>AC TO AC (BACK TO BACK SCR) INPUT : 80VAC TO 280VAC, Min. 4mA - Max. 16mA</b>								
705 3PH ZAA 48 25 28	24 to	25	20	-	500A <sup>2</sup> S	-	E	1075.00
705 3PH ZAA 48 50 28	480VAC	50 AC - 1	38	15	3000A <sup>2</sup> S	16Amp	L	2025.00
705 3PH ZAA 48 90 28	PIV 1200VPK	90 AC - 1	65	30	7200A <sup>2</sup> S	32Amp	X/L	3325.00
<b>DC TO AC (ALTERNISTOR TRIAC) INPUT : 5VDC TO 32VDC, Min 4mA-Max. 16mA</b>								
701 3PH ZDA 48 25 00	24 to	25	20	-	312A <sup>2</sup> S	-	B/J	600.00
701 3PH ZDA 48 40 00	480VAC	40	30	-	450A <sup>2</sup> S	-	C/B	950.00
	800VPK							

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**Heat Sink**  
Weight : 650gms

Type "L-100" -701/ 707 / 705model  
current up To 40Amp  
100mm(W) X 100mm(L) X 49mm(H) +SSR  
Price Rs.430+Rs.30 Din Rail



**Technical Data**

		THYRISTOR			TRIAC	
Output circuit - Switching element						
Operational voltage range		Vrms	42-480VAC/690VAC		24-330VAC	
Peak inverse voltage		Vpk	1200Vpk/1600Vpk		800Vpk	
Rated operational current	AC 51-20°C	IT	25AAC	50AAC	90AAC	25AAC
	AC53a-55°C		15AAC	30AAC		40AAC
For utilization category						
Frequency range		HZ	45-65Hz			
Max. off-state leakage current		mA	< 5 mArms			
Minimum load current holding current		IHO	175 mA	275 mA	275 mA	75 mA
Rated peak withstand current (t = 10 ms)		ITSM	320A	800A	1200A	250A
Max. Zero voltage turn on		Vpk	15	15	15	15
Max. load integral I <sup>2</sup> dt (t = 10 ms)		I <sup>2</sup> t	500A <sup>2</sup> S	3000A <sup>2</sup> S	7200A <sup>2</sup> S	312A <sup>2</sup> S
Voltage drop in on-state		VTM	1.3V	1.3V	1.3V	1.4V
Critical current gradient		di/dt	100A/μs	100 A/μs	150A/μs	50A/μs
Critical voltage gradient		Dv/dt	350 V/μs	1500 V/μs	1500 V/μs	400 V/μs
Thermal resistance Rth (Junction to case) DC		θJC	1.1	1.0	0.4	2
Power factor		Cosφ	0.5 (at 600VAC)			0.85 (at 600VAC)
Maximum barrier-layer temperature			125 °C			125 °C
Input circuit-control circuit /rated control supply voltage			9-32VDC/80-280VAC			5-32VDC
Make voltage / Break voltage			9VDC/80VAC			5VDC
Max. current consumption			16mA			16mA
Switching times max zero cross over make/break			1period/1period			1period/1period
Ambient temperature range operation			-30...+80 °C			-30...+80 °C
Test voltage between all isolated circuits (type test)			4kVA			2.5kVA
Electrical connection wire size			O/p. 16sqmm (max), I/p. 4sqmm			O/p.&I/p.6sqmm PIN