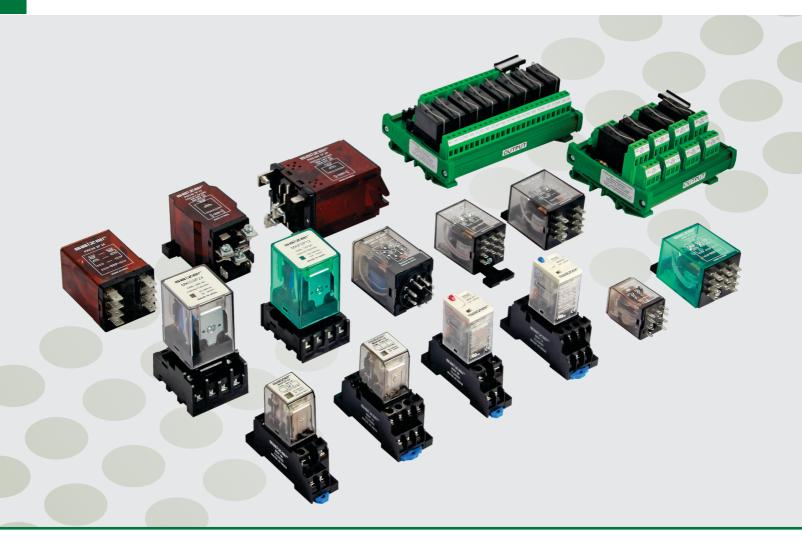


RELAYS



GENERAL PURPOSE & POWER RELAYS

 ϵ



"Manufactured with Strict Quality and having undergone stringent Post-Production testing Procedures,

these relays meet the requirement of our customers. The fact that these relays are manufactured by

Salzer Electronics limited is your guarantee of quality and service."





Index

Plugin Relay MSP	4
Plugin Relay MSP with test button	6
Plugin Relays MKG/MKP with test button	8
Miniature Relay MSC/PCB	10
Medium Power Relay HSC/HSR	12
Power Relay PRC	14
Relay Module	17

3



GENERAL PURPOSE MINIATURE Relays



MSP - 2Pole

Plug-in type Enclosed version

with LED indication



MSP -3Pole

Plug-in type Enclosed version

with LED indication



MSP - 4Pole

Plug-in type Enclosed version

with LED indication

SPECIFICATIONS

Contact Arrangement	2, 3 & 4 changeover contacts
Contact Ratings	5 Amps Resistive @ 240V AC/24V DC
Insulation Resistance	500 Meg. Ohms at 500 VDC
Mechanical Life	1 Million
Electrical Life	1 Lakh
Dielectric strength	As under
Between Contacts	1000V RMS
Between contact and coil	2000V RMS
Operate time at nominal voltage	< 20 m.secs
Release time at nominal voltage	< 10 m.secs
Coil Consumption	0.9W/1.2Va

APPLICATIONS

Ideal for power & Sequence control
Instrumentation, Industrial Controls &
Automation Systems

ADVANTAGES

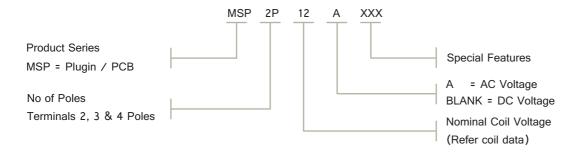
LED Indication

DIN RAIL mounting Socket &

PCB socket options

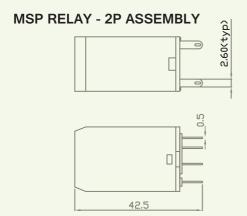
Nominal	Coil Resistance in	il Resistance in Ohms + 10% Release Voltaç		oltage (Min)	
Voltage DC & AC	DC	AC	Pick-up Voltage (Max)	DC	AC
06	41	13	4.8	0.6	1.8
12	165	53	9.6	1.2	3.6
18	330	-	14.4	1.8	5.4
24	660	210	19.2	2.4	7.2
48	2640	540	38.4	4.8	14.4
110	13200	4400	88	11	33
220	54000	-	176	22	72
240	54000	19000	192	22	72

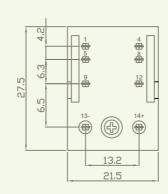


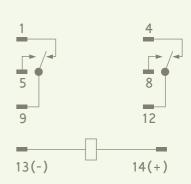


DIMENSIONS

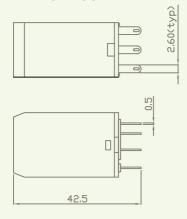
WIRING LAYOUT (BOTTOM VIEW)

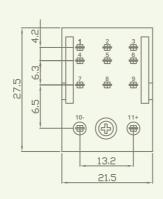


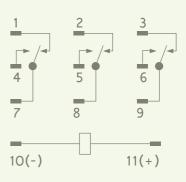




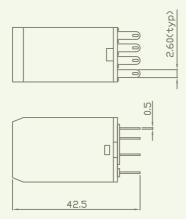
MSP RELAY - 3P ASSEMBLY

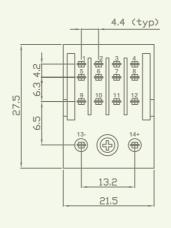


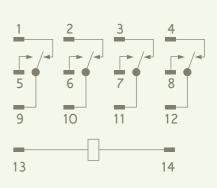




MSP RELAY - 4P ASSEMBLY







NOTE: PCB VERSION SOCKET AVAILABLE ON REQUEST



GENERAL PURPOSE MINIATURE Relays. Mechanical Test Button & Flag Indication

Approvals





MSP - 2Pole (12Amps)
Plug-in type Enclosed version,
LED indication with test Button



MSP - 4Pole (7Amps)
Plug-in type Enclosed version,
LED indication with test Button

SPECIFICATIONS

Contact Arrangement	2 & 4 changeover contacts
Contact Ratings	2 Pole-12Amps at 277VAC/30V DC 4 Pole-7Amps at 277VAC/30V DC
Insulation Resistance	500 Meg. Ohms at 500 VDC
Mechanical Life	1 Million
Electrical Life	1 Lakh
Dielectric strength	As under
Between Contacts	1500V RMS
Between contact and coil	1500V RMS
Operate time at nominal voltage	< 20 m.secs
Release time at nominal voltage	< 10 m.secs
Coil Consumption	0.9W/1.2Va

APPLICATIONS

Elevator Control Panels,
Ideal for power & Sequence control
Instrumentation, Industrial Controls &
Automation Systems

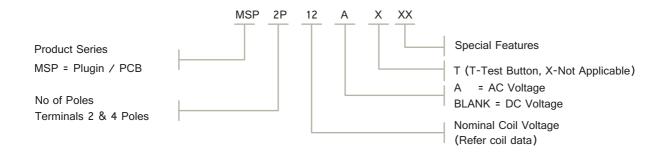
ADVANTAGES

Mechanical Test Button,
Flag Indication, LED Indication,
DIN RAIL mounting Socket &
PCB socket available

Nominal	Coil Resistance in	Ohms + 10%		Release Voltage (Mir	
Voltage DC & AC	DC	AC	Pick-up Voltage (Max)	DC	AC
06	41	13	4.8	0.6	1.8
12	165	53	9.6	1.2	3.6
18	330	-	14.4	1.8	5.4
24	660	210	19.2	2.4	7.2
48	2640	540	38.4	4.8	14.4
110	13200	4400	88	11	33
120		-	-	-	-
220	54000	-	176	22	72
240	-	19000	192	22	72

^{*}Supplied with socket is ${}_{\ensuremath{\mathbf{Q}}_{\ensuremath{\mathbf{S}}}}$ marked & without socket is ${}_{\ensuremath{\mathbf{S}}}$ Marked

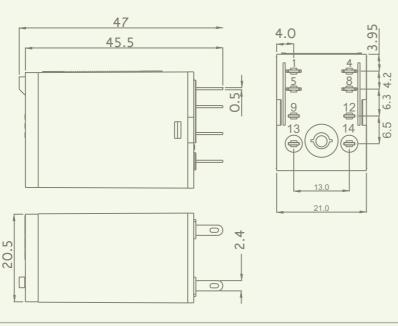


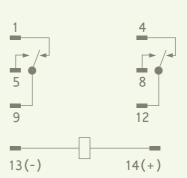


DIMENSIONS

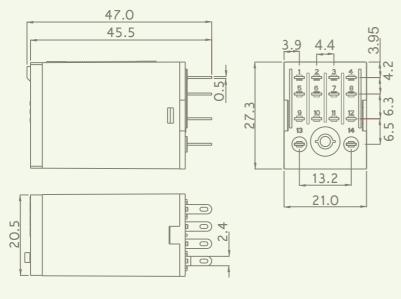
WIRING LAYOUT (BOTTOM VIEW)

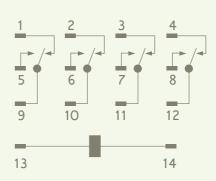
MSP RELAY - 2P ASSEMBLY





MSP RELAY - 4P ASSEMBLY





NOTE: PCB VERSION SOCKET AVAILABLE ON REQUEST FOR 4 POLE



MINIATURE Relays - Plug-in Relays



MKG -5AMPS

Plug-in type Enclosed version with LED indication



MKP-10 AMPS

Plug-in type Enclosed version with LED indication



MKG-5AMPS / MKP-10 AMPS Test Button Relay

Plug-in type Enclosed version with LED indication

SPECIFICATIONS

Contact Arrangement	1,2 or 3 changeover contacts	
Contact Ratings	MKG 5 Amps Resistive at 240V AC/24V DC MKP 10 Amps Resistive at 240V AC/24V DC	
Insulation Resistance	500 Meg. Ohms at 500 VDC	
Electrical Life	1 Lakh Operations	
Mechanical Life	1 Million Operations	
Dielectric strength	As under	
Between Contacts	1500V RMS	
Between contact and coil	2000V RMS	
Operate time at nominal voltage	< 20 m.secs	
Release time at nominal voltage	< 10 m.secs	
Coil Consumption	1.2 Watt / 2.4 VA	

APPLICATIONS

UPS, Inverter, Voltage stabilizers,
Process Control systems,
Instrumentation, Industrial Controls,
Automation Systems,
Vending Machines, Machine Tools,
Textile Machineries &
FRTU RTU/SCADA Panels

ADVANTAGES

MKG/MKP Relays are PGCIL Approved Meeting JSS 50711/50703, IEC60255/ 61810 Specs Heavy Duty / Latch Relays Can be offered on request

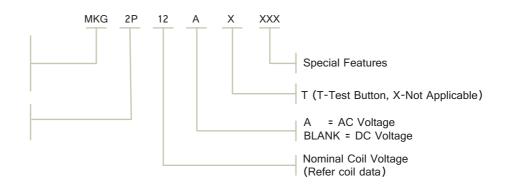
Nominal	Coil Resistance in O	Resistance in Ohms + 10% Release Voltage (Itage (Min)	
Voltage DC & A	AC DC	AC	Pick-up Voltage (Max)	DC	AC
06	30	07	4.8	0.6	1.8
12	1P, 2P-200 / 3P-150	30	9.6	1.2	3.6
18	390	55	14.4	1.8	5.4
24	2P, 3P-500 / 1P-600	110	19.2	2.4	7.2
48	2250	440	38.4	4.8	14.4
60	3400	-	48	6.0	18
110	10K	2400	88	11	33
220	34K	-	176	22	72
240	-	9700	192	22	72
220	34K	-	176	22	



Product Series

MKG = Plug - in Connection MKP = Plug - in Connection

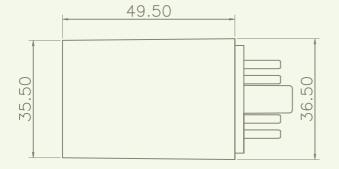
> No of Poles Terminals 1,2&3 Poles



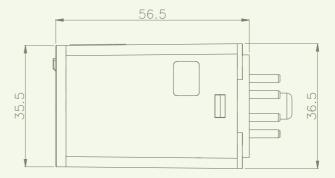
DIMENSIONS

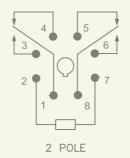
WIRING LAYOUT (All Dimensions are in mm)

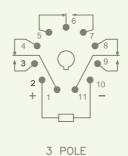
MKG/MKP



MKP-T









MINIATURE Relays



MSC (5 AMPS)

Enclosed version Solder connection with LED indication 2 Poles



TYPE PCB (5 AMPS)

Enclosed version for PCB

SPECIFICATIONS

Contact Arrangement	1,2 or 3 changeover contacts	
Contact Ratings	MSC 5 Amps Resistive at 240V AC/24V DC PCB 5 Amps Resistive at 240V AC/24V DC	
	240V AC/24V DC	
Insulation Resistance	500 Meg. Ohms at 500 VDC	
Electrical Life	1 Lakh Operations	
Mechanical Life	1 Million Operations	
Dielectric strength	As under	
Between Contacts	1500V RMS	
Between contact and coil	2000V RMS	
Operate time at nominal voltage	< 20 m.secs	
Release time at nominal voltage	< 10 m.secs	
Coil Consumption	1.2 Watt / 2.4 VA	

APPLICATIONS

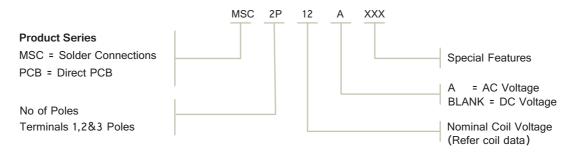
UPS, Inverter, Voltage stabilizers, Process Control systems, Instrumentation, Industrial Controls, Automation Systems, Vending Machines & Machine Tools

ADVANTAGES

Solder Connection Enclosed Version for PCB

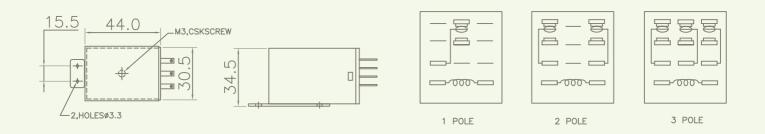
Nominal	Coil Resistance in Ohms + 10%			Release Vo	oltage (Min)
Voltage DC & AC	DC	AC	Pick-up Voltage (Max)	DC	AC
06	30	07	4.8	0.6	1.8
12	1P, 2P-200 / 3P-150	30	9.6	1.2	3.6
18	390	55	14.4	1.8	5.4
24	2P, 3P-500 / 1P-600	110	19.2	2.4	7.2
48	2250	440	38.4	4.8	14.4
60	3400	-	48	6.0	18
110	10K	2400	88	11	33
220	34K	-	176	22	72
240	-	9700	192	22	72



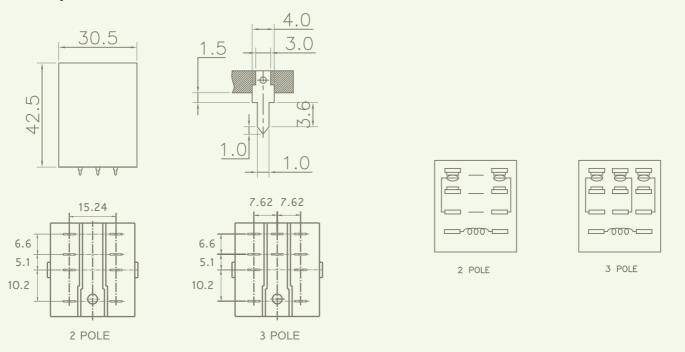


DIMENSIONS WIRING LAYOUT (All Dimensions are in mm)

For MSC Relays



For PCB Relays





MEDIUM POWER Relays •10 / 16 AMPS Resistive at 240VAC / 24VDC



HSC (10 Amps)
Enclosed version Solder connection



HSR (16 Amps)
Enclosed version Solder connection

SPECIFICATIONS

Contact Arrangement	1,2 or 3 changeover contacts
Contact Ratings	HSC 10 Amps resistive at 240V AC/24V DC HSC 16 Amps Resistive at 240V AC/24V DC
Insulation Resistance	500 Meg. Ohms at 500 VDC
Electrical Life	1 Lakh Operations
Mechanical Life	1 Million
Dielectric strength	As under
Between Contacts	1500V RMS
Between contact and coil	2000V RMS
Operate time at nominal voltage	< 25 m.secs
Release time at nominal voltage	< 15 m.secs
Coil Consumption	1.2 watts / 2.4 VA

APF	PLICAT	IONS
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Voltage Stabilizers

UPS

Control Panels

Control Systems

Industrial Controls

Air Conditioners

ADVANTAGES

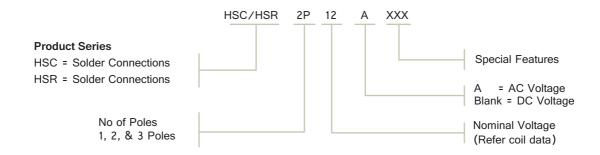
Elegant, Sturdy and light Weight

Versatile Relay satisfying

Low to Medium Power Sources

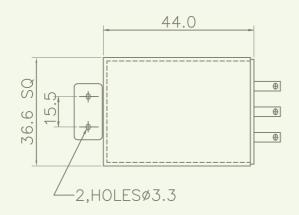
Nominal	Coil Resistance	in Ohms + 10%		Release Voltage (Min)		
Voltage DC & AC	DC	AC	Pick-up Voltage (Max)	DC	AC	
06	30	7	4.8	0.6	1.8	
12	120	30	9.6	1.2	3.6	
18	270	-	14.4	1.8	5.4	
24	480	110	19.2	2.4	7.2	
48	2250	-	38.4	4.8	14.4	
110	10K	2400	88	11	33	
220	34K	-	176	22	72	
240	-	9700	192	22	72	

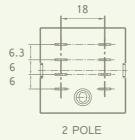


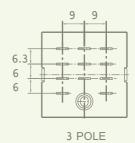


DIMENSIONS FOR HSC/HSR RELAYS

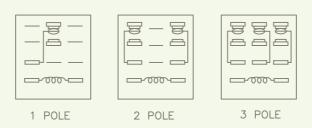
(All Dimensions are in mm)







WIRING FOR HSC/HSR RELAYS





POWER Relays



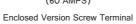
PRC 30
(30 AMPS)
Enclosed Version Solder Terminal



PRC 40
(40 AMPS)
Enclosed Version Screw Terminal



PRC 60 (60 AMPS)





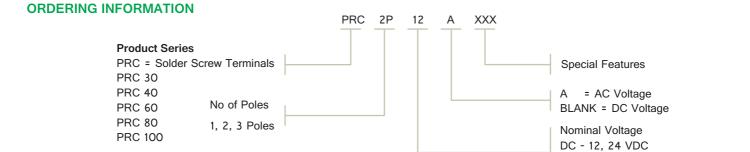
PRC 80/100 (80/100 AMPS) Enclosed Version Screw Terminal

APPLICATIONS	ADVANTAGES
Inverter UPS Voltage stabilizer Automation Equipment Vending machines	High Reliability Solder & Screw Terminal 40 Amps Metal Plate mounting/Dinrail mounting

SPECIFICATIONS

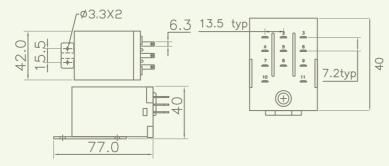
S.No	Tech Data	PRC 30	PRC 40	PRC 60	PRC 80/100	
1	Size (mm)	42 X 51 X 67	78 X 48 X 50	78 X 48 X 50	83 X 48 X 72	
2	Contact capacity AC DC	30A/240V 30A/24V	40A/240V 40A/24V	60A/240V 60A/24V	80A / 100A / 240V 80A / 100A / 24V	
3	Contact Arrangement	1P / 2P / 3P	1P	1P	1P	
4	Electrical life - Operations	1 Lakh	1 Lakh	1 Lakh	1 Lakh	
5	Mechanical life - Operations	1 Million	1 Million	1 Million	1 Million	
6	Insulation resistance (milli ohms)	500 at 500V DC	500 at 500V DC	500 at 500V DC	500 at 500V DC	
7	Dielectric Strength Bet. Open Contacts Bet. Coil to Contact	1500 VAC 2500 VAC	1500 VAC 2500 VAC	1500 VAC 2500 VAC	1500 VAC 2500 VAC	
8	Coil nominal Voltage AC DC	240V / 24V 12V / 24V	240V /24V 12V / 24V	240V / 24V 12V / 24V	240V / 24VAC 12V / 24V	
9	Coil nominal power	DC 2W	DC 2W	DC 2.5W	<3.5W	



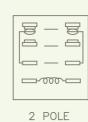


DIMENSIONS WIRING LAYOUT

POWER RELAY 30AMPS

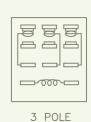




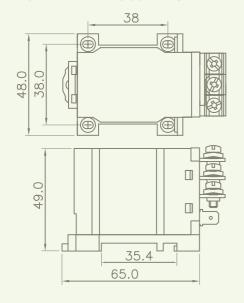


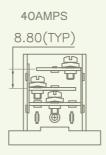
AC - 240VAC

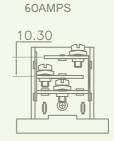
(other Coil Voltages on request)

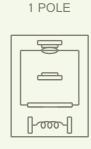


POWER RELAY 40/60 AMPS

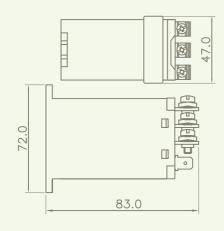


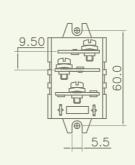


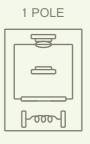




POWER RELAY 80/100AMPS

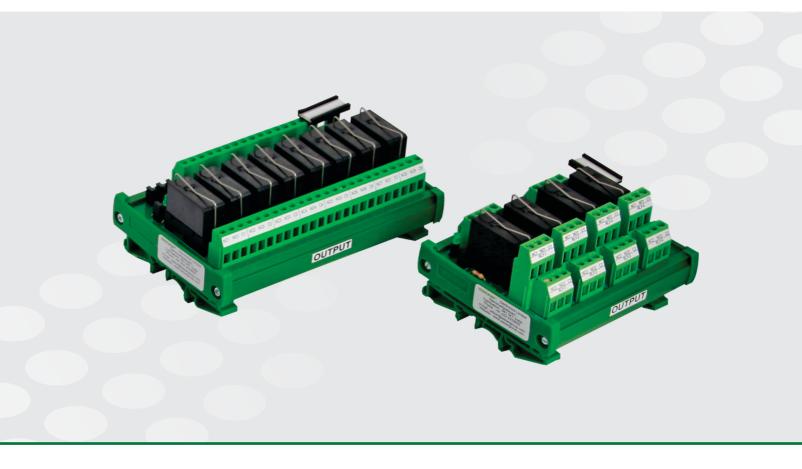








Relay Modules





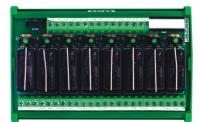
1 C/O Modules with Jumper for Coil Looping & Reverse Blocking Diodes



RMS021P24 2 Channel Relay Module



RMS041P24 4 Channel Relay Module



RMS081P24 8 Channel Relay Module

2 C/O Modules with Jumper for Coil Looping & Reverse Blocking Diodes



RMS022P24
2 Channel Relay Module

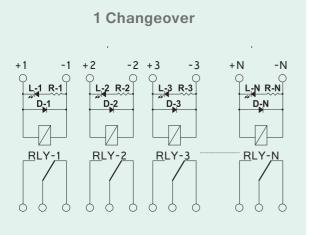


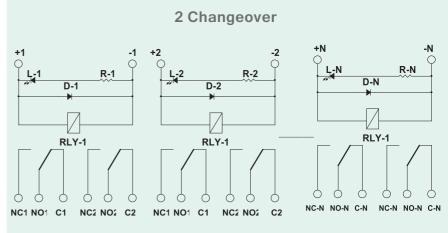
RMS042P24 4 Channel Relay Module



RMS082P24 8 Channel Relay Module

CIRCUIT DIAGRAM





Number of Channels/Relay | 1+---N+Positive supply to relay coil | 1- ---N-Negative supply to relay coil | NO-N, C-N, NC-NRelay Contacts

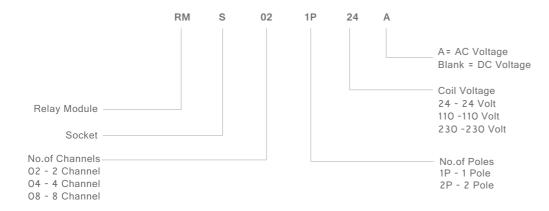


No.of Channels	1C/O Module	Dimensions WxHxD(mm)	Dimensions WxHxD(mm) 110/230VAC		
2	RMS021P24	36X85X60	39X85X70		
4	RMS041P24	66X85X60	70X85X70		
8	RMS081P24	135X85X60	145X85X70		

No.of Channels	2C/O Module	Dimensions WxHxD(mm)	Dimensions WxHxD(mm) 110/230VAC
2	RMS022P24	55X85X65	55X85X70
4	RMS042P24	100X85X65	95X85X70
8	RMS082P24	185X85X65	185X85X70

	us, Jumpers for commoning the + or - terminal of power supply, to suppress coil switching noise
--	---

					3			
		1 Changeover			2 Changeover			
1C/O & 2C	1C/O & 2C/O 2 4			4 8				
Nominal Coil Voltage		24VDC	110VAC	230VAC	24VDC	110VAC	230VAC	
Must Operate Vol	Must Operate Voltage		80% Max	80% Max	70% Max	70% Max	70% Max	
Dropout Voltage		15% Min	30% Min	30% Min	15% Min	15% Min	15% Min	
Max-Coil Voltage		110% Max@70°	110% Max@70°	110% Max@70°	110% Max@70°	110% Max@70°	110% Max@70°	
Coil Current/Cha	nnel (1)	40mA	15mA	8mA	40mA	15mA	8mA	
Operate (Set) Tir	ne	15ms Max	15ms Max	15ms Max	15ms Max	15ms Max	15ms Max	
Release (Reset)	Time	5ms Max	10ms Max	10ms Max	5ms Max	10ms Max	10ms Max	
Contact Rating	Relay	16A@30VDC/230VAC			5A@30VDC/230VAC			
Contact Nating	On Board	10A@30VDC/230VAC			53A@30VDC/230VAC			
Operating Ambie	Operating Ambient		0~55°C, 85%RH					
Storage Ambien	Storage Ambient		-20°C to 85°c					
Terminations	Coil	Screw type, for 2.5mm Sq.wire						
Terminations	Contact	Screw type, for 2.5mm Sq.wire						
Mounting		35mm DIN rail						
Endurance Electrical: 100,000 Operations Min.(at 1800 Operation/hr)								
Max-Operating Frequency Mechanical: 18000 Operations/hr Electrical: 1800 Operations/hr								
Dielectric Stren	1. Coil to coil (When isolated): 100 VAC, 50/60Hz for 1 minute. 2. Coil to contacts: 2KVAC, 50/60Hz for 1 minute 3. Contacts of same polarity: 1KVAC, 50/60Hz for 1 minute 4. Contacts-Channel to Channel: 1.5KVAC, 50/60H for 1 Minute.							



Note:1. Current including LED current. *AC Coil Versions Available on request subject to availability.

Other Products

Rotary Switches

AC Switch: 6 Amps - 400 Amps DC Switch: 16 to 500 Amps upto 250 V DC offered in various mounting options & custom built configuration switches



Cable Ducts

Wide range from (15x15mm) upto (150x150mm)
Flame retardant UL94 VO grade material,
ROHS Compliant Ducts, offered in
various colours & slotting styles



Contactors & Overload Relays

Standard Contactors 9A to 105 Ámps Mini Contactor from 7A to 16 Amps & Control Relay 16 Amps. Bimetallic Over Load Relay from 0.28-112 Amps, with a wide range of Accessories



Transformers & Chokes / Inductors / Reactors

Dry type Magnetics - VPI, AN - AF - Water Cooling etc. Transformers Range: 1KVA to 1MVA, 1Phase and 3Phase **Chokes / Inductors / Reactors Range:** 1KVAr to 1MVA 1Phase and 3 Phase



Load Break Switches

Load Break (Isolator) range from 16 - 250 Ampere Changeover switches from 25 - 125 Amps upto 4 pole, offered with Sheet Steel, Aluminium & Plastic enclosures. IP65/NEMA rating.



Terminal Connectors

Range from 2.5 - 95 sq. mm Miniature, Double / Triple level connectors, Fuse, Ground, Disconnect, Distribution terminal Blocks & Screwless connectors



Motor Protection Circuit Breaker (MPCB)

In 32 & 63 Amps, Motor Disconnect function, Branch circuit protection, Motor control & Overload protection Relay range upto 63 Amps with UL listing



Wires & Cables

Range from 0.5 sq mm to 300 sq mm Building Wires, Flexible Wires, Multi Core Cables, Flat Cables, HRFR, FRLS, ZHFR Wires, UL Rated Wires, Shielded & Braided Wires



Photo Voltaic Isolators

Salzer

DC Isolators: Range 25A to 63A upto 1000 VDC
Standard Front Mounting, Door Interlock & Enclosure Mountings
DC Changeover: Range 25A to 63A upto 1000 VDC
Mounting Options: Standard Front Mounting, Door
Interlock & Enclosure Mountings



Limit & Foot Switches

Available in Normal / Snap action
Precision limit switches: 1NO + 1NC / 2NO +2NC

Operating force: From Light to Heavy duty applications, Versatile mounting heads, Rugged aluminum die cast housing, With Guard / Shielded version, Twin also available, Zinc die casting housing available on request



Toroidal Transformers / Current Transformers

Single Phase 15VA - 30KVA & Three Phase 1KVA - 120KVA. CT's : Accuracy Class of 0.2 to 3 with burden of 5 to 30VA, Primary Current upto 4000A & Secondary of 5A / 1A



Lan Cables

Horizontal Cable specification testing Lab, UL listed – CM Flame Rating, ETL verified to ANSI/TIA-568.2-D Cat6, FR PVC, ROHS & REACH Compliance, Unshielded product Range is Cat5e, Cat6 & Cat6A, Shielded product Range is Cat5e, Cat6, Cat6A & Cat7, Jacket material is PVC/LSZH/PE





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