

RELAYS



GENERAL PURPOSE & POWER RELAYS



"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."



GENERAL PURPOSE MINIATURE Relays • 3/5 AMPS Resistive at 24V DC / 240VAC



MSP (5 AMPS)
Plug-in type Enclosed version
with LED indication 2 Poles



MSP (5 AMPS)
Plug-in type Enclosed version
with LED indication 3 Poles



MSP (3 / 5 AMPS)
Plug-in type Enclosed version
with LED indication 4 Poles

SPECIFICATIONS

Contact Arrangement	2, 3, 4 changeover contacts
Contact Ratings	5 Amps Resistive for 2 / 3 / 4 pole Relays with LED display
Contact Resistance	50 m-ohms. Max (Initial)
Insulation Resistance	500 Meg. Ohms at 500 VDC
Ambient Temperature	-15° to +55° C
Contact Material	Agcdo
Electrical Life	100x10 ³ at rated voltage
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
Max. Weight (in grams)	35g

APPLICATIONS

Ideal for power &
Sequence control

Instrumentation

Industrial Controls

Automation Systems

ADVANTAGES

High Reliability

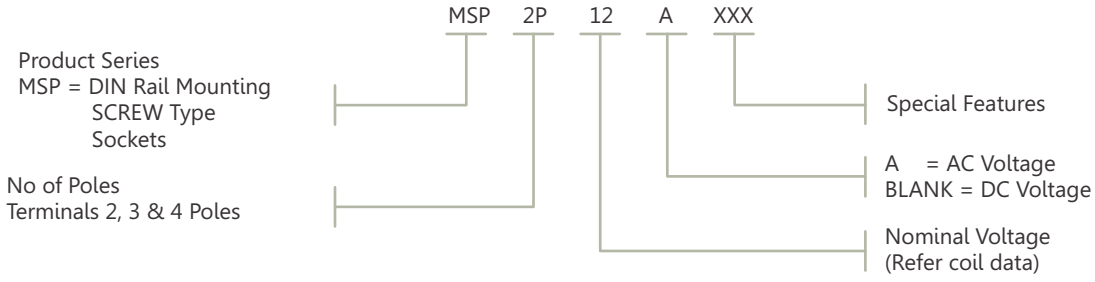
DIN RAIL mounting and
LED Indication

COIL DATA

Nominal Voltage DC & AC	Coil Resistance in Ohms + 10%		Pick-up Voltage (Max)	Release Voltage (Min)	
	DC	AC		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
60	4200	-		6.0	18
110	13200	4400	88	11	33
220 V DC/240 AC	54000	19000	176/192	22	72

All values at 25° ambient

ORDERING INFORMATION

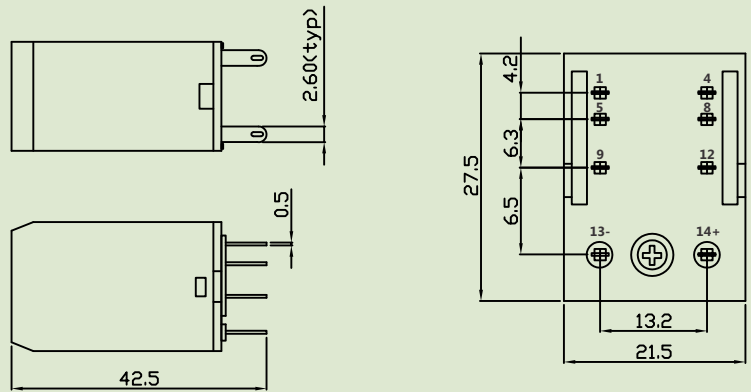


NOTE : PCB VERSION AVAILABLE ON REQUEST

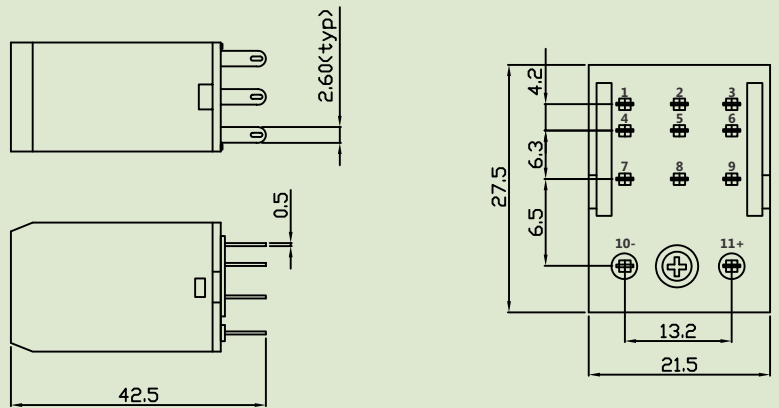
DIMENSIONS

WIRING LAYOUT (BOTTOM VIEW)

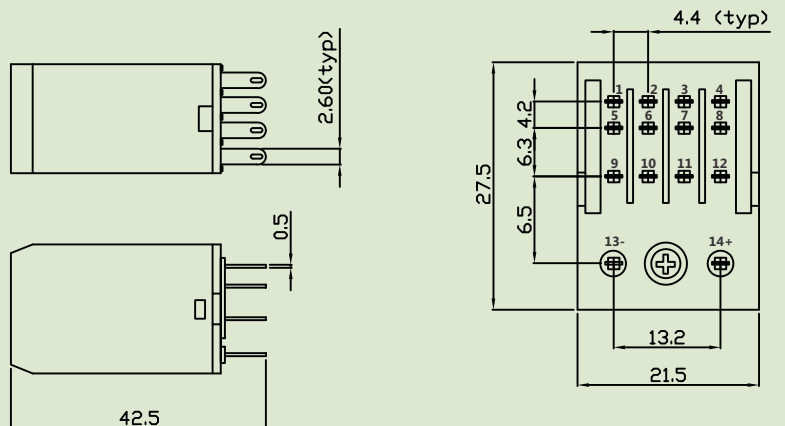
MSP RELAY - 2P ASSEMBLY



MSP RELAY - 3P ASSEMBLY



MSP RELAY - 4P ASSEMBLY



GENERAL PURPOSE MINIATURE Relays • 15 AMPS, 10 AMPS resistive at 24V DC / 240VAC



MSF (15 AMPS)
Plug-in type Enclosed version,
PCB 1 Pole



MSF (10 AMPS)
Plug-in type Enclosed version,
PCB 2,3 & 4 Pole

SPECIFICATIONS

Contact Arrangement	1, 2, 3, 4 changeover contacts
Contact Ratings	15 Amps Resistive for 1 pole 10 Amps for 2, 3 & 4 pole
Contact Resistance	100 m-ohms. Max (Initial)
Insulation Resistance	500 Meg. Ohms at 500 VDC
Ambient Temperature	-15° to +55° C
Contact Material	Agcdo
Electrical Life	100x10 ³ at rated voltage
Dielectric strength	As under
Between Contacts	1000V RMS
Between contact and coil	1500V RMS
Operate time at nominal voltage	< 15 m.secs
Release time at nominal voltage	< 10 m.secs
Max. Weight (in grams)	1, 2 Pole 35g, 3 Pole 50g, 4 Pole 65g

APPLICATIONS

Ideal for power &
Sequence control

Instrumentation

Industrial Controls

Automation Systems

ADVANTAGES

High Reliability

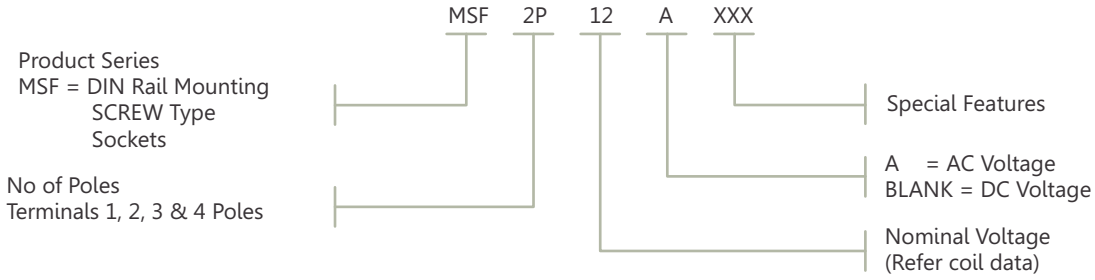
DIN RAIL mounting and
LED Indication

COIL DATA

Nominal Voltage DC & AC	Coil Resistance in Ohms + 10%					Pick-up Voltage (Max)	Release Voltage (Min)	
	DC		AC				DC	AC
	1P/2P	3P/4P	1P/2P	3P	4P			
06	40	24	12	6	5	4.8	0.6	1.8
12	160	96	48	23	19	9.6	1.2	3.6
24	640	384	192	92	77	19.2	2.4	7.2
48	2560	1536	768	365	308	38.4	4.8	14.4
110	13400	8060	4035	1936	1615	88	11	33
220 V DC/240 AC	53800	32260	19200	9216	7680	176/192	22	72

All values at 25° ambient

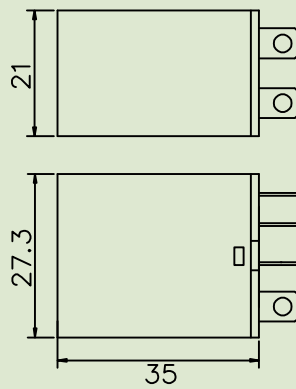
ORDERING INFORMATION



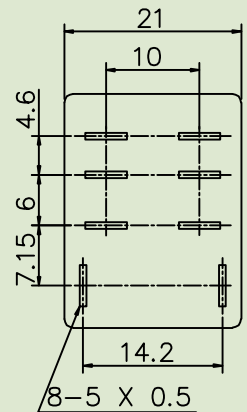
NOTE : PCB VERSION AVAILABLE ON REQUEST

MSF RELAY - 1 & 2P ASSEMBLY

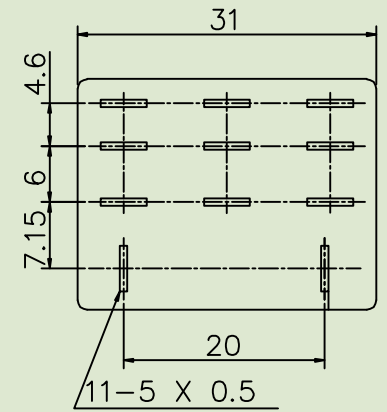
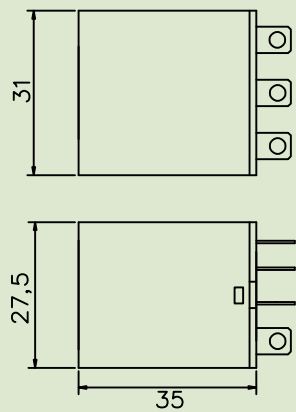
DIMENSIONS



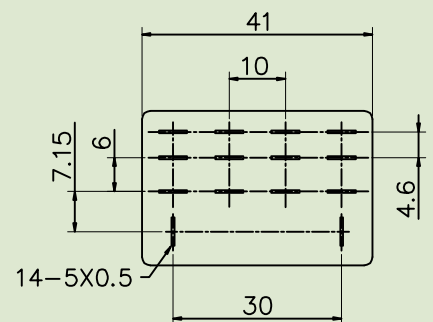
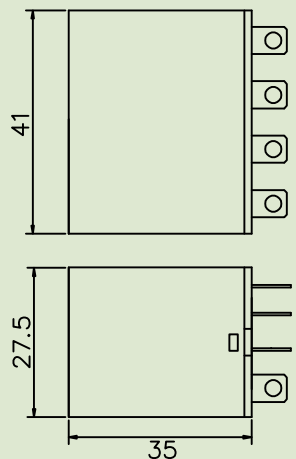
WIRING LAYOUT (BOTTOM VIEW)



MSF RELAY - 3P ASSEMBLY



MSF RELAY - 4P ASSEMBLY



MINIATURE Relays • 5/10 AMPS Plug-in Relays at 24V DC / 240VAC



TYPE MKG/MKP (5/10 AMPS)
Plug-in type Enclosed version
with LED indication



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	5 / 10 Amps Resistive at 24V DC / 240V AC
Contact Resistance	50 milli ohms Max (Initial)
Insulation Resistance	500 Meg. Ohms at 500 VDC
Ambient Temperature	-15° to +55° C
Contact Material	Agcdo
Electrical Life	10 ⁵ Operations at rated voltage
Mechanical Life	10 ⁷ 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
Max. Weight (in grams)	MSC – 80g., MK – 95g., PCB – 80g
Coil Consumption	1.2 Watt / 2.4 VA

APPLICATIONS

UPS
Inverters
Voltage stabilizers
Process Control systems
Instrumentation
Industrial Controls
Automation Systems
Vending Machines
Machine Tools
Textile Machineries

ADVANTAGES

High reliability
Solder, Plug – in & PCB
Version

Meeting JSS 50711 Specs

COIL DATA

Nominal Voltage DC & AC	Coil Resistance in Ohms + 10%		Pick-up Voltage (Max)	Release Voltage (Min)	
	DC	AC		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
220V DC/240V AC	34K	9700	176/192	22	72

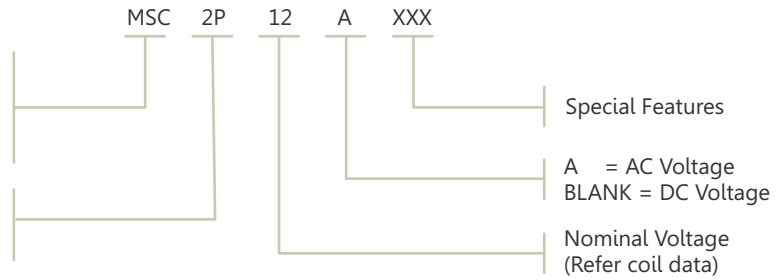
All values at 25° ambient

NOTE: For 220V DC Coil Voltage 45K Resistor Can be offered on Request

Product Series

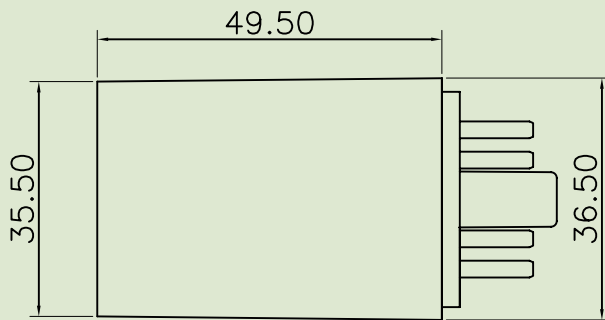
MSC = Solder Connections
 MKG = Plug - in Connections
 MKP = Plug - in Connection
 PCB = Direct PCB typer

No of Poles
 Terminals 1, 2, & 34 Poless

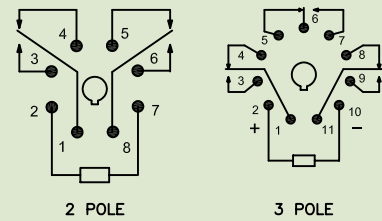


WIRING LAYOUT FOR MK RELAYS

(All Dimensions are in mm)

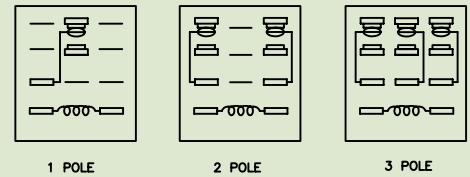
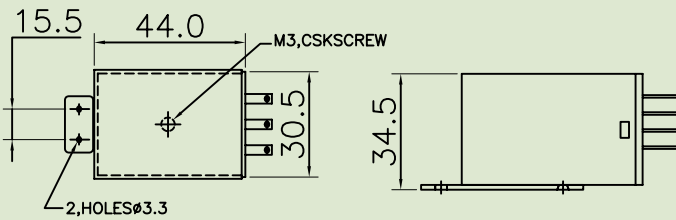


WIRING LAYOUT



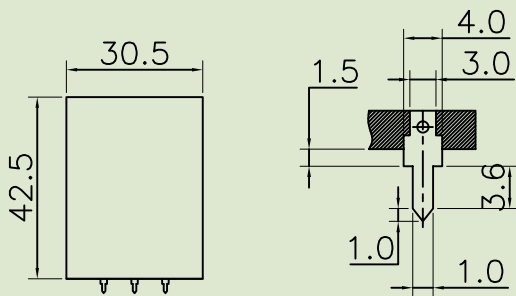
WIRING LAYOUT FOR MSC RELAYS

(All Dimensions are in mm)

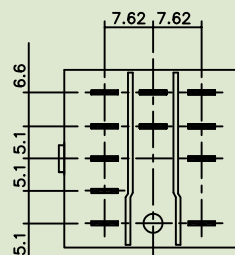
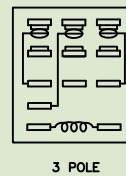


WIRING LAYOUT FOR PCB RELAYS

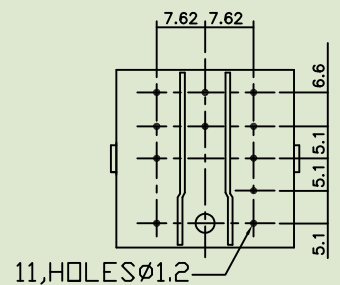
(All Dimensions are in mm)



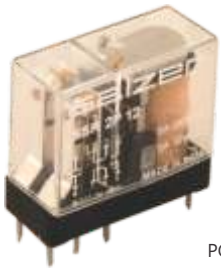
WIRING LAYOUT



MOUNTING DETAIL



PCB MOUNTING Relays 5 Amps / 10 Amps Resistive at 30VDC / 240VAC equivalent to G2R



SSR (5 AMPS)
PCB Mounting Relay Enclosed version 2 Pole Contact
Transparent Sealed Dust Proof Cover



SSR (10 AMPS)
PCB Mounting Relay Enclosed version 1 Pole Contact
Transparent Sealed Dust Proof Cover

SPECIFICATIONS

Contact Arrangement	1 and 2 changeover contacts
Contact Ratings	10 Amps Resistive for SPDT & 5 Amps Resistive for DPDT contacts at 30VDC / 250 VAC.
Contact Resistance	≤50 milli ohms.
Insulation Resistance	500 Meg. Ohms at 500 VDC
Contact Material	Agcdo
Dielectric strength	Between open contacts : 1000 vrms Between coil to contact : 5000 vrms
Nominal Coil- voltage	6-48 VDC
Nominal Coil Power	DC : <0.53 W
Life (Electrical)	10 ⁵ Operations
(Mechanical)	1 X 10 ⁷ Operations
Weight	Approx : 17g
Operating Temp	-15° to +55° C
Mounting	PCB Mounting

APPLICATIONS

Relay Modules
PLCS
Automation System
Power and Sequence
Control applications

ADVANTAGES

A PCB Relay for a
Variety of Purpose
Automation System
Universal Standard
Specifications
SPDT/DPDT Contacts
available

COIL DATA

Nominal Voltage DC & AC	Pick-up Voltage (Max)	Release Voltage (Min)
06	4.8	0.6
12	9.6	1.2
18	14.4	1.8
24	19.2	2.4
48	38.4	4.8

All values at 25° ambient

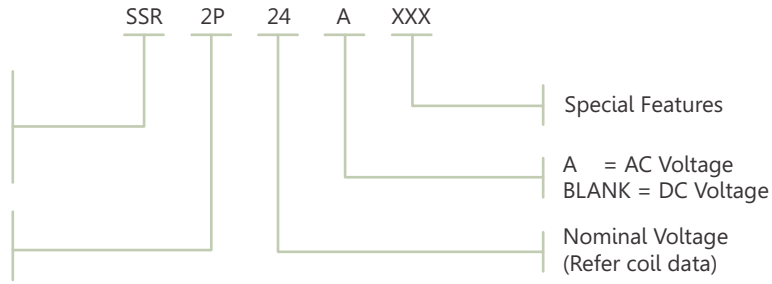
ORDERING INFORMATION

Product Series

SSR = PCB Mounting
 Relay Enclosed
 Version Transparent
 Sealed Dust Proof Cover

No of Poles

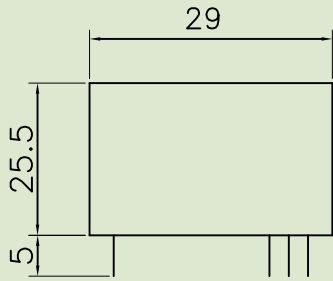
1 : 10 Amps
 2 : 05 Amps



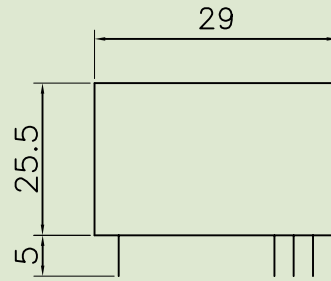
DIMENSIONS

(All Dimensions are in mm)

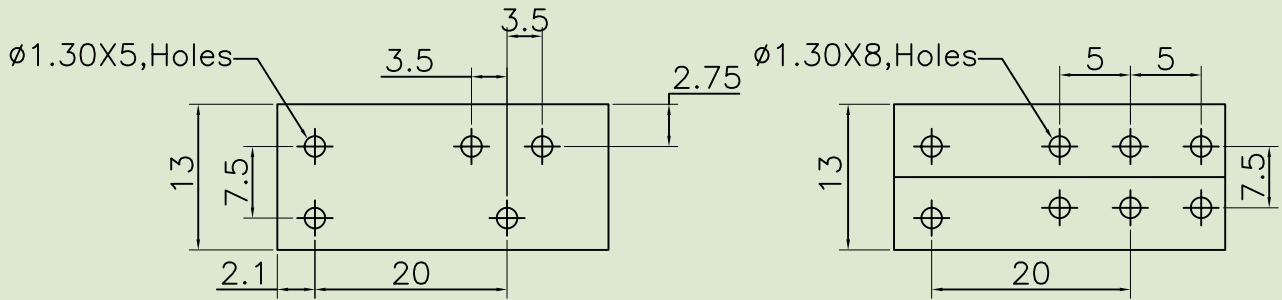
SSR RELAY - 1P ASSEMBLY



SSR RELAY - 2P ASSEMBLY



MOUNTING DETAIL



WIRING LAYOUT



MEDIUM POWER Relays •10 / 16 AMPS Resistive at 24V DC / 240V AC

TYPE HSC (10 Amps)
Enclosed version Solder connection



TYPE HSR (16 Amps)
Enclosed version Solder connection

SPECIFICATIONS

Contact Arrangement	1,2 or 3 changeover contacts
Contact Ratings	10 / 16 Amps Resistive at 24V DC / 240V AC
Contact Resistance	50 milli ohms Max
Insulation Resistance	500 Meg. Ohms at 500 VDC
Ambient Temperature	-15° to +55° C
Contact Material	Agcdo
Electrical Life	10 ⁵ Operations at rated load
Mechanical Life	10 ⁷ Operations
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
Max. Weight (in grams)	90g
Coil Consumption	1.2 watts / 2.4 VA

APPLICATIONS

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

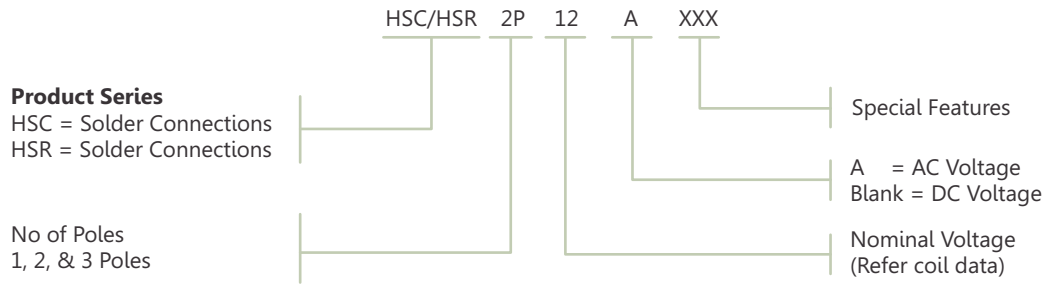
All values at 25° ambient

COIL DATA

Nominal Voltage DC & AC	Coil Resistance in Ohms + 10%		Pick-up Voltage (Max)	Release Voltage (Min)	
	DC	AC		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
220V DC/240V AC	34K	9700	176 / 192	22	72

NOTE: For 220V DC Coil Voltage 45K Resistor Can be offered on Request

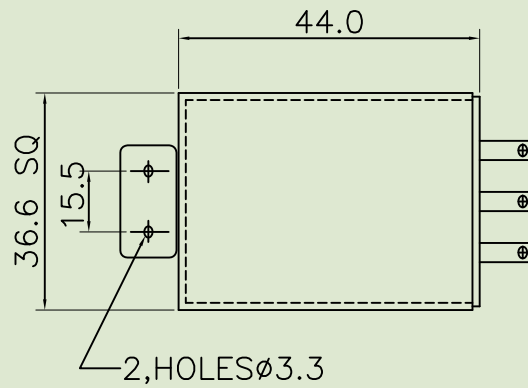
ORDERING INFORMATION



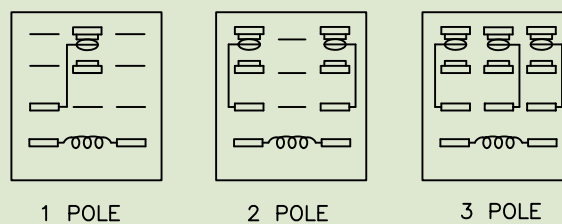
Note : Plug - in Version with LED available in 10 Amps Rating

DIMENSIONS FOR SERIES HSC/HSR RELAYS

(All Dimensions are in mm)



WIRING FOR SERIES HSC/HSR RELAYS



PCB Mounting Relay 20 Amps (C/O) 30 Amps (N/O) Resistive at 30VDC / 240VAC



STR PCB

Enclosed Version Sealed Dust Proof

SPECIFICATIONS

Contact Arrangement	1 N/O Contact & 1 Changeover Contacts
Contact Ratings	30 Amps Resistive for 1 N/O 20 Amps Resistive for 1 C/O At 30VDC / 240VAC
Contact Resistance	≤100 milli ohms.
Insulation Resistance	1000 Meg. Ohms @ 500 VDC
Dielectric strength	Between open contacts : 1500 vrms Between coil to contact : 2500 vrms
Nominal Coil - voltage	12 & 24 VDC
Nominal Coil Power	DC : <0.93 W
Life (Electrical)	1 X 10 ⁵ Operations at rated voltage
(Mechanical)	1 X 10 ⁷ Operations
Weight	Approx : 33g
Operating Temp	-15° to +55° C
Mounting	PCB Mounting

APPLICATIONS

Domestic application
Automotive application
Varied PCB
low cost Applications

ADVANTAGES

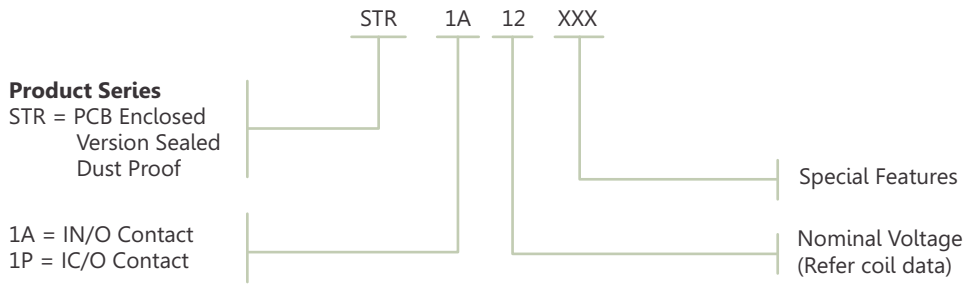
A power Relay for a
Variety of Purpose
Universal Standard
Specifications Compact,
sealed dust proof cover
Small size high rating

COIL DATA

Nominal Voltage DC & AC	Pick-up Voltage (Max)	Release Voltage (Min)
12	9.6	1.2
24	19.2	2.4

All values at 25° ambient

ORDERING INFORMATION

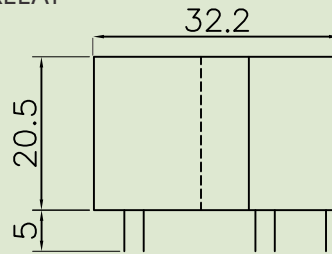


Note : PCB Version available on Request

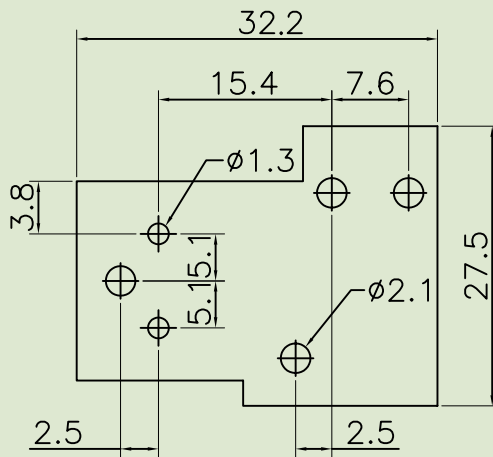
DIMENSIONS

(All Dimensions are in mm)

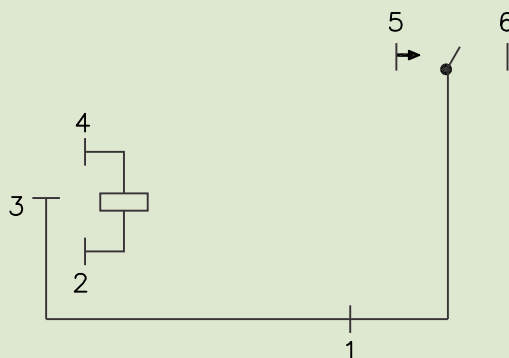
STR RELAY



MOUNTING DETAIL



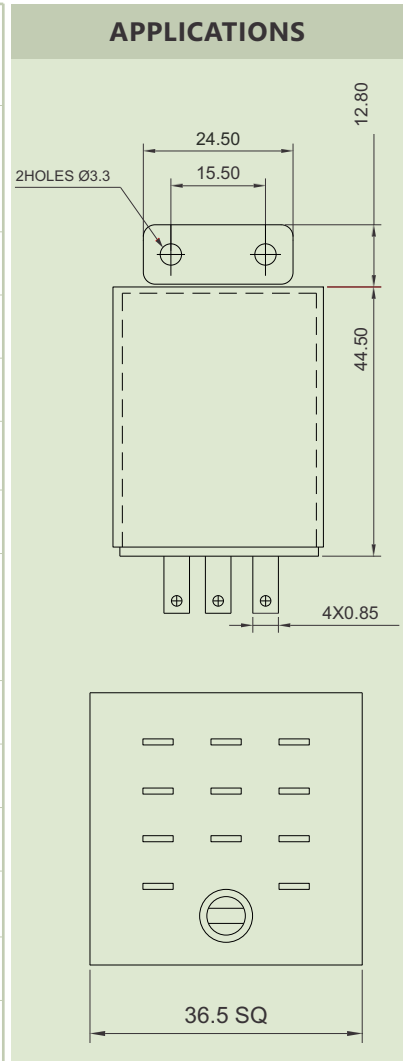
WIRING LAYOUT



SPECIFICATIONS

25 Amp, SPDT & DPDT, AC & DC Relays

Contact Arrangement	1 Changeover contacts (Terminal Screw Type) 1&2 Changeover contacts (Solderable type)
Contact Materials	Silver cadmium oxide (or) gold flash coat (Optional)
Contact Ratings	25 Amps Resistive at 28 VDC / 250 VA
Contact Resistance	15 m-Ohms.max
Insulation Resistance	500 meg.Ohms at 500 VDC
Ambient Temperature	-15° to +55°C
Nominal Coil Power	1.2 Watts
Electrical Life	5x10 ⁴ operations at rated load
Mechanical Life	10 ⁷ operation
Dielectrical strength	As under
Between open contacts	1500 VRMS
Pole to Pole	2000 VRMS
Body to contact and coil	2000 VRMS
Operate time at nominal voltage	< 25 msecs
Release time at nominal voltage	< 15 msecs

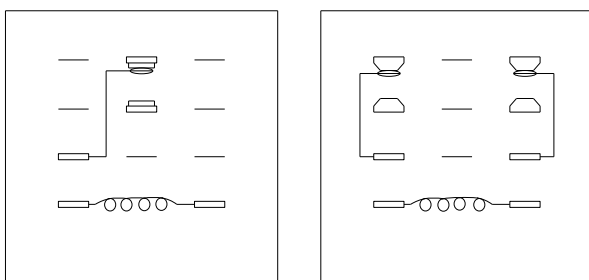


COIL DATA

Nominal Voltage DC & AC	Coil Resistance in Ohms + 10%		Pick-up Voltage (Max)	Release Voltage (Min)	
	DC	AC		DC	AC
06	30	7	4.8	0.6	1.8
12	120	30	9.6	1.2	3.6
24	480	110	19.2	2.4	7.2
48	2250	440	38.4	4.8	14.2
110	10K	2.4	88	11	33
220/240 AC	34K	9.7K	176 / 192	22	72

NOTE: For 220V DC Coil Voltage 45K Resistor Can be offered on Request

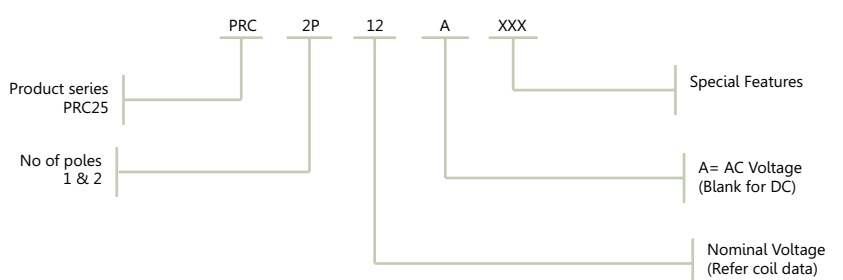
WIRING LAYOUT FOR PRC25



1 POLE

2 POLE

ORDERING INFORMATIONS



POWER Relays •30/40/60/80/100 AMPS Resistive AT 28V DC / 240V AC



TYPE PRC 30
(30 AMPS)
Enclosed Version Solder Terminal



TYPE PRC 40 & 60
(40 & 60 AMPS)
Enclosed Version Screw Terminal



TYPE PRC 80
(80 AMPS)
Enclosed Version Screw Terminal

APPLICATIONS

Inverter
UPS
Voltage stabilizer
Automation Equipment
Vending machines

ADVANTAGES

High Reliability
Solder & Screw Terminal

SPECIFICATIONS

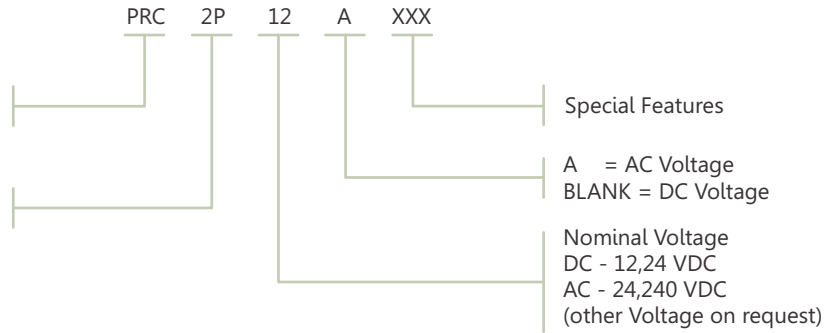
S.No	Tech Data	PRC-30-1/2/3P	PRC-40-1P	PRC-60-1P	PRC-801p/100-1P
1	Size (mm)	42 X 51 X 67	78 X 48 X 50	78 X 48 X 50	83 X 48 X 72
2	Contact capacity	AC 30A/240V DC 30A/28V	AC 40A/240V DC 40A/28V	AC 60A/240V DC 60A/28V	AC 80A / 100A / 240V DC 80A / 100A / 28V
3	Contact Resistance	50 Initial	50 Initial	50 Initial	50 Initial
4	Contact configuration	1P / 2P / 3P	1P	1P	1P
5	Insulation resistance (mohms)	500 at 500V DC	500 at 500V DC	500 at 500V DC	500 at 500V DC
6	Dielectric Strength				
	Bet. Open Contacts	1500 VAC	1500 VAC	1500 VAC	1500 VAC
	Bet. Coil to Contact	2500 VAC	2500 VAC	2500 VAC	2500 VAC
7	Coil nominal Voltage	AC 240V / 24V DC 12V / 24V	AC 240V / 24V DC 12V / 24V	AC 240V / 24V DC 12V / 24V	AC 240V / 24V DC 12V / 24V
8	Coil nominal power	DC 2W	DC 2W	DC 2.5W	<3.5W
9	Electrical life - Operations	10 ⁵	10 ⁵	0.5 X 10 ⁵	0.1 X 10 ⁵
10	Mechanical life - Operations	10 ⁷	10 ⁷	10 ⁷	10 ⁷
11	Weight (g)	105	135	135	225

ORDERING INFORMATION

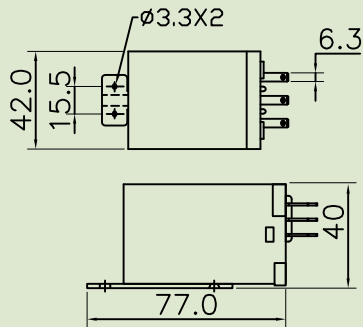
Product Series

PRC = Solder Screw Terminals

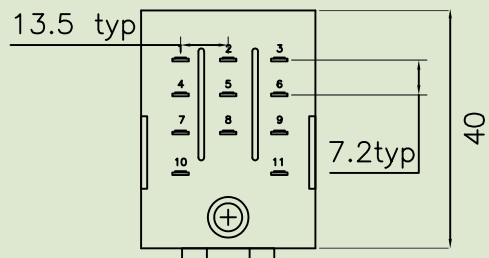
No of Poles
1, 2, 3 Poles



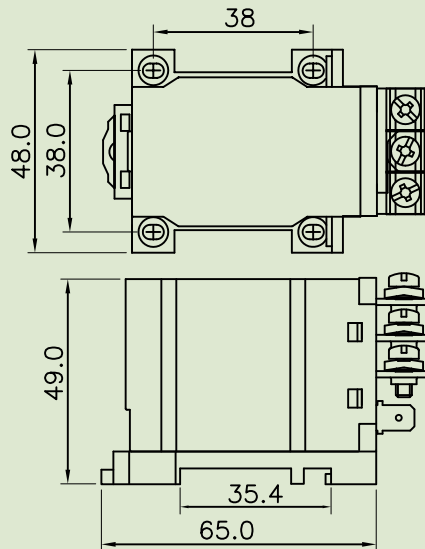
**POWER RELAY 30AMPS
OVERALL DIMENSIONS**



WIRING LAYOUT (BOTTOM VIEW)

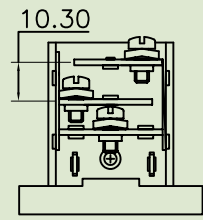
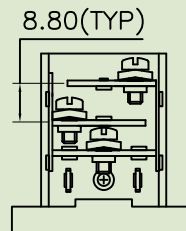


**POWER RELAY 40AMPS
OVERALL DIMENSIONS**

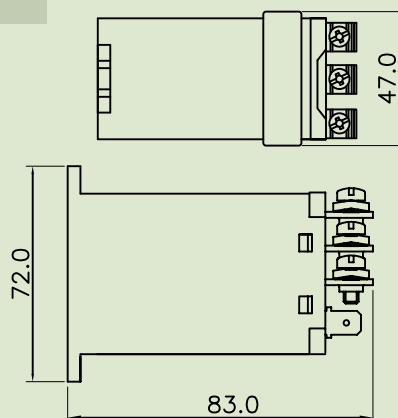


40AMPS

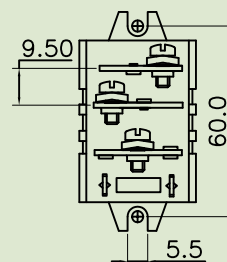
60AMPS



**POWER RELAY 80/100AMPS
OVERALL DIMENSIONS**



WIRING LAYOUT (BOTTOM VIEW)



Automotive Power Relays 70 Amps Resistive at 14V DC



SPECIFICATIONS

Contact Arrangement	1 N/0
Contact Ratings	50A, 70A at 14V DC
Contact Resistance	≤ 30 mohms.
Insulation Resistance	≤ 100 Mohms at 500 VDC
Dielectric strength	Between open contacts : 50Hz, 1000V
	Between coil to contact : 50Hz, 500V
Nominal Coil- voltage	12 – 24 VDC
Nominal Coil Power	1.6 watt
Life (Electrical)	1 X 10 ⁵ Operations
	(Mechanical)
Weight	Approx : 37g
Max Switching Power	980 Watts
Max Switching Voltage	75V Dc

APPLICATIONS

Domestic application
Automotive application
Varied PCB low cost
Applications

ADVANTAGES

A power Relay for a
Variety of Purpose

Universal Standard

Specifications Compact,
sealed dust proof cover

Small size high rating

Salzer Electronics Limited

Registered & Corporate Office: Samichettipalayam, Coimbatore - 641 047, India.

Phone: +91 422 - 2692531, 4233600 Fax: +91 422 - 2692170

e-mail: sales@salzergroup.com | salzer@salzergroup.com

www.salzergroup.com