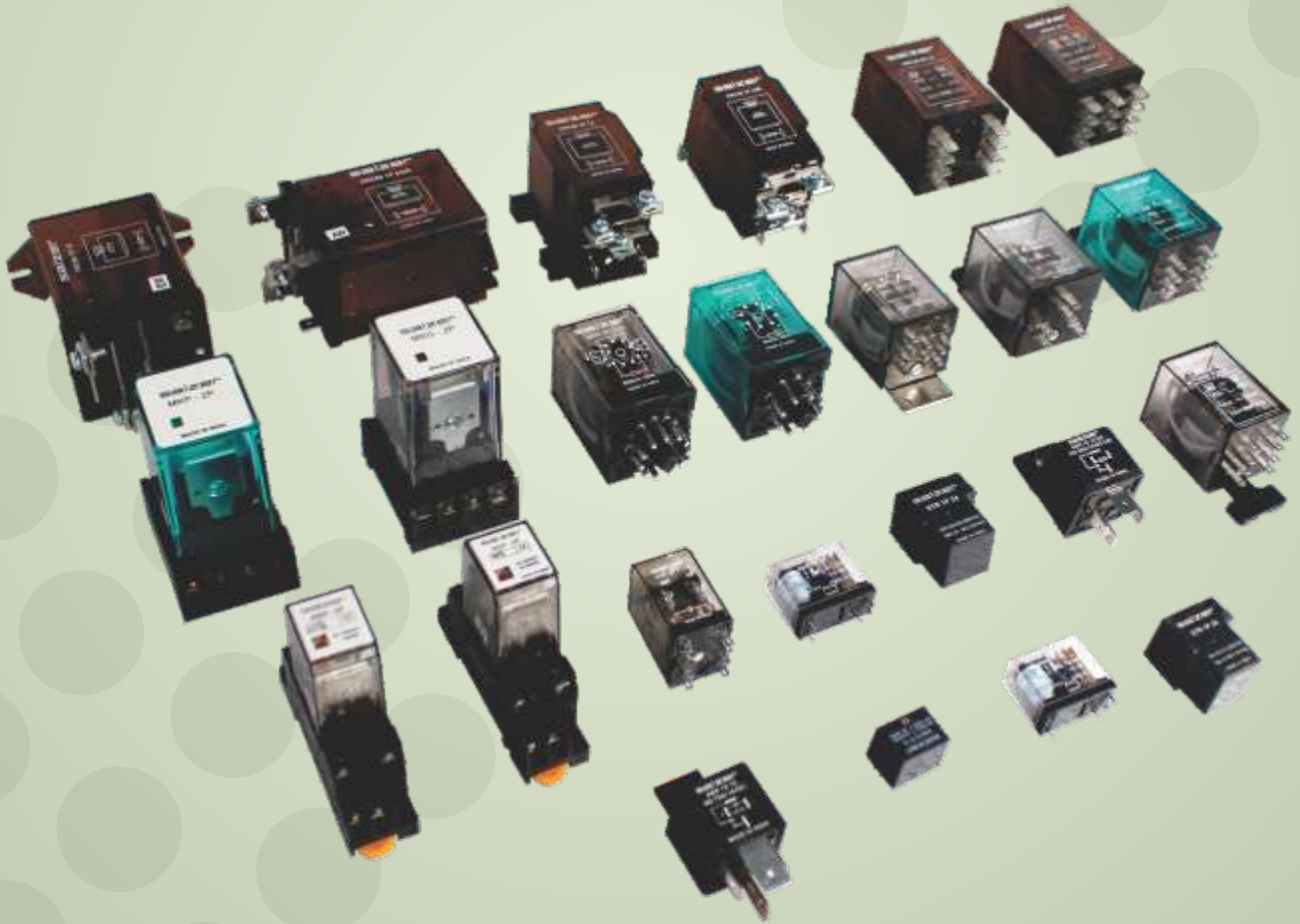


salzer

RELAYS



GENERAL PURPOSE & POWER RELAYS



www.salzergroup.com

“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 pole/3pole & 3 / 5 Amps for 4 pole Relays with LED display
Contact Resistance	50 m-ohms. Max (Initial)
Insulation Resistance	500 Meg. Ohms at 500 VDC 25° C, 50 RH
Ambient Temperature	-40° +70° 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

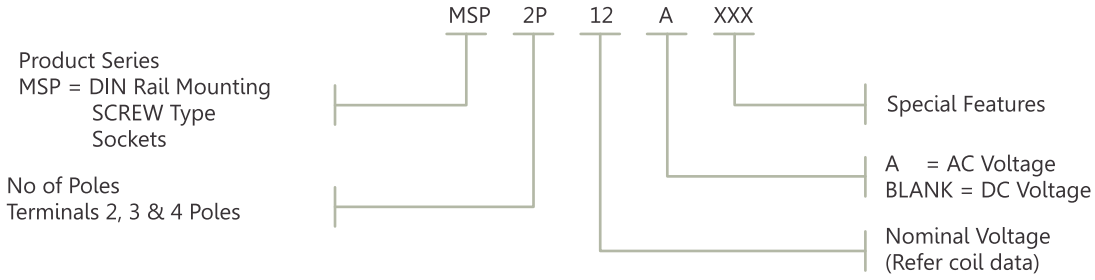
DIN RAIL mounting and
LED Indication

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	05	0.6	1.8
12	165	53	10	1.2	3.6
18	330	-	15	1.8	5.4
24	660	210	20	2.4	7.2
48	2640	840	40	4.8	14.4
60	4200	-		6.0	18
110	13200	4400	90	11	33
220 V DC/240 AC	54000	19000	176/190	24	72

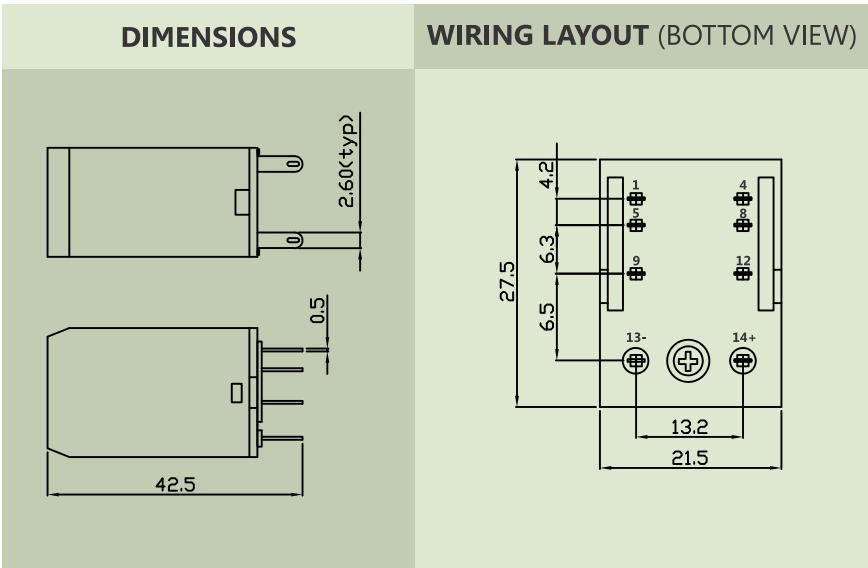
All values at 25° ambient

ORDERING INFORMATION

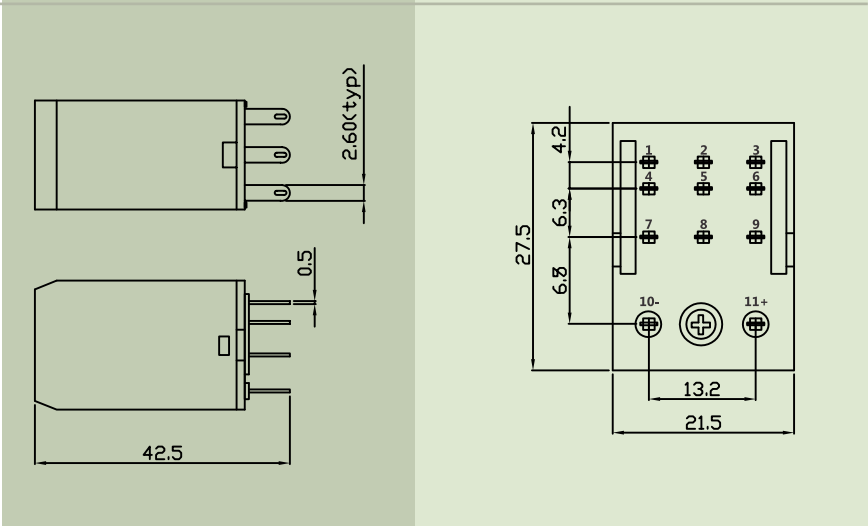


NOTE : PCB VERSION AVAILABLE ON REQUEST

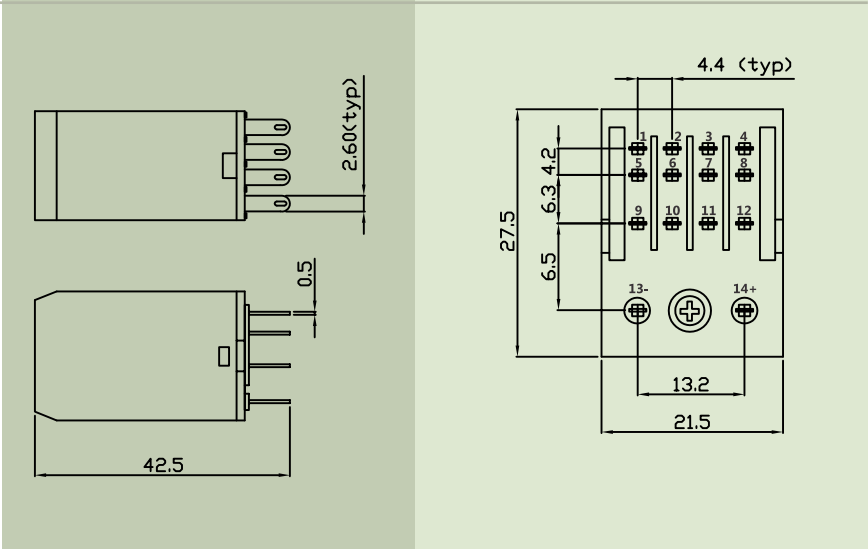
MSP RELAY - 2P ASSEMBLY



MSP RELAY - 3P ASSEMBLY



MSP 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 25° C
Ambient Temperature	-40° +70° 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	5	0.6	1.8
12	1P, 2P-200 / 3P-150	30	10	1.2	3.6
18	390	55	15	1.8	5.4
24	2P, 3P-500 / 1P-600	110	20	2.4	7.2
48	2250	440	40	4.8	14.4
60	3400	-	48	6.0	18
110	10K	2400	90	11	33
220V DC/240V AC	34K	9700	176/190	24	72

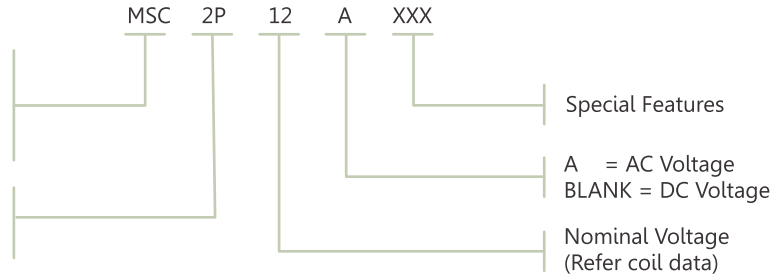
All values at 25° ambient

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

Product Series

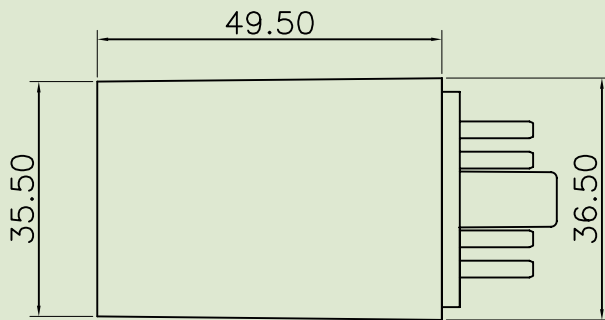
MSC = Solder Connections
 MKG = Plug - in Connections
 MKP = Plug - in Connection
 PCB = Direct PCB typer

No of Poles
 Terminals 1, 2, & 34 Poless

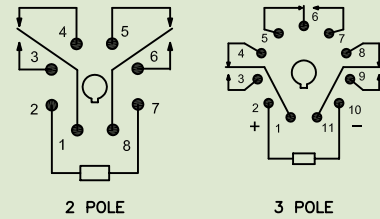


WIRING LAYOUT FOR MK RELAYS

(All Dimensions are in mm)

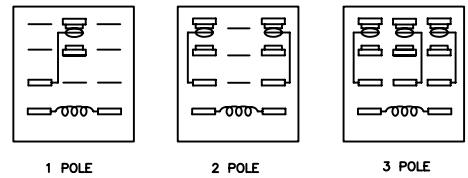
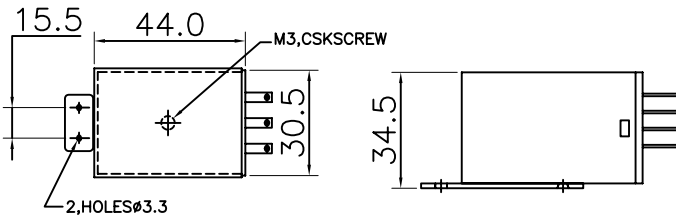


WIRING LAYOUT



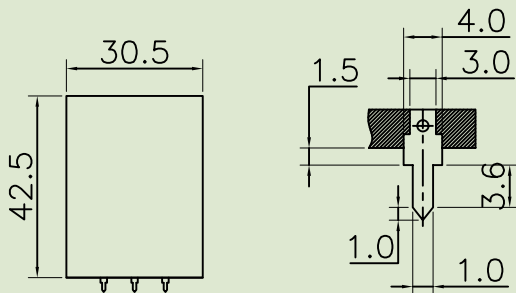
WIRING LAYOUT FOR MSC RELAYS

(All Dimensions are in mm)

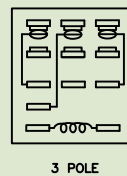


WIRING LAYOUT FOR PCB RELAYS

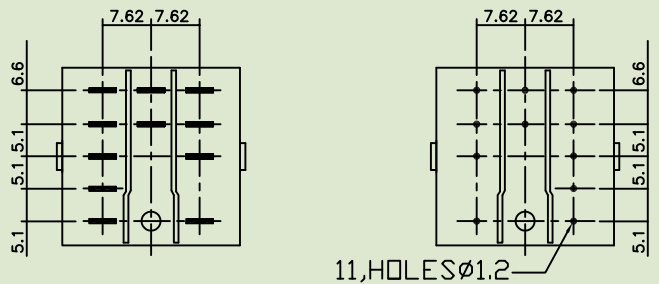
(All Dimensions are in mm)



WIRING LAYOUT



MOUNTING DETAIL



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 25°C, RH 50
Ambient Temperature	-40° +70° 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

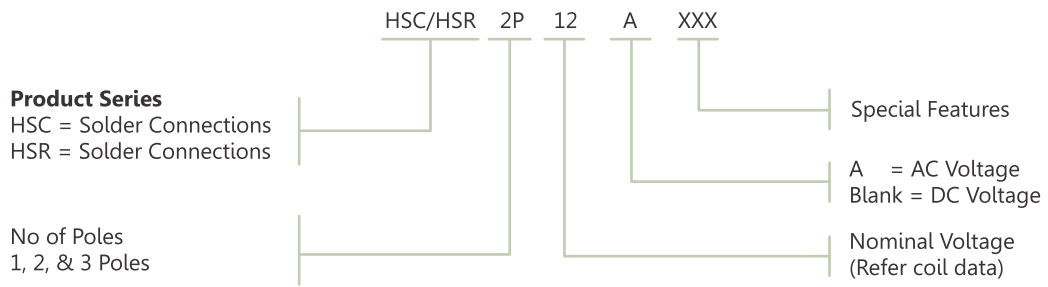
All values at 25° ambient

COIL DATA

Nominal Voltage DC & AC	Coil Resistance in Ohms + 10%		Pick-up Voltage (Max)	Release Voltage (Min)
	DC	AC		
06	30	7	5	0.6
12	120	30	10	1.2
18	270	-	15	1.8
24	480	110	20	2.4
48	2250	-	40	4.8
110	10K	2400	90	11
220V DC/240V AC	34K	9700	176 / 190	24

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

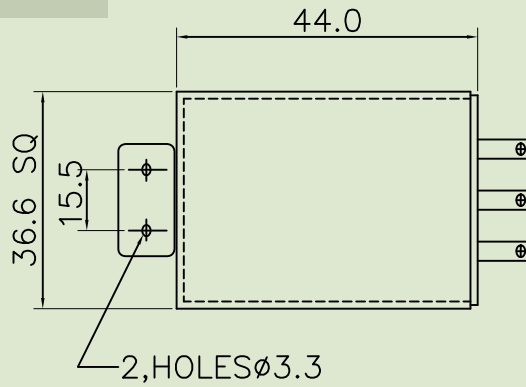
ORDERING INFORMATION



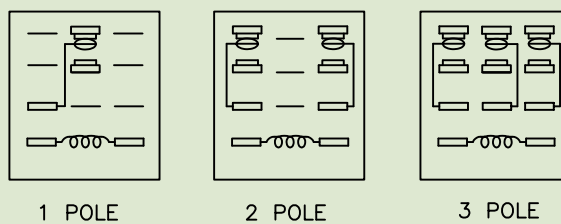
Note : Plug - in Version with LED available in 10 Amps Rating

DIMENSIONS FOR SERIES HSC/HSR RELAYS

(All Dimensions are in mm)



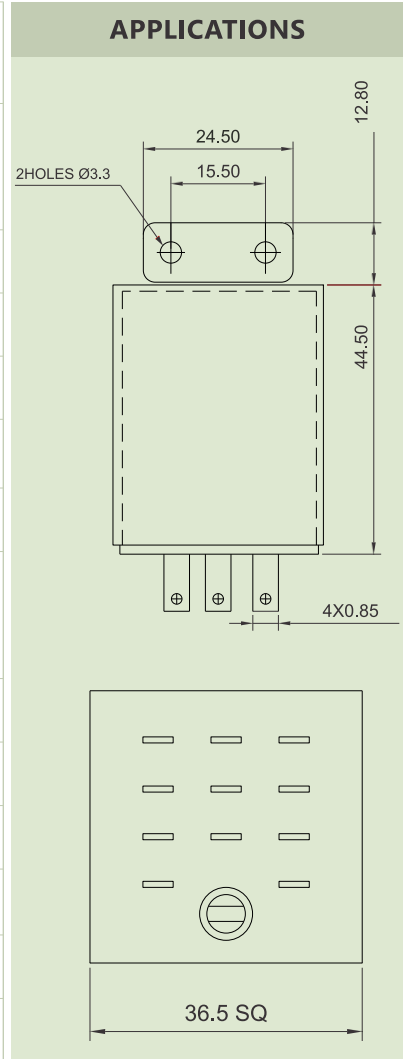
WIRING FOR SERIES HSC/HSR RELAYS



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 VAC
Contact Resistance	15 m-Ohms.max
Insulation Resistance	500 meg.Ohms at 500 VDC 25°c 50 RH
Ambient Temperature	-40° + 60°c
Nominal Coil Power	1.2 Watt
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

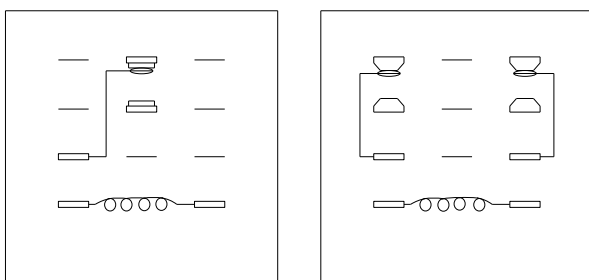


COIL DATA

Nominal Voltage DC & AC	Coil Resistance in Ohms + 10%		Pick-up Voltage (Max)	Release Voltage (Min)
	DC	AC		
06	30	7	4.8	0.6
12	120	30	9.6	1.2
24	480	110	19.4	2.4
48	2250	440	38.8	4.8
110	10K	2.4	88	11
220/240 AC	34K	9.7K	176/180	22

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

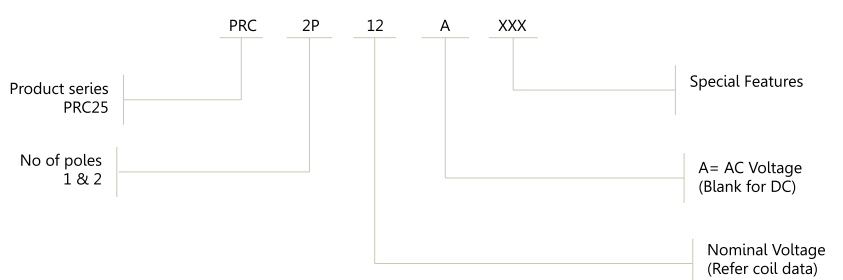
WIRING LAYOUT FOR PRC25



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	ADVANTAGES
Inverter UPS Voltage stabilizer Automation Equipment Vending machines	High Reliability Solder & Screw Terminal

SPECIFICATIONS

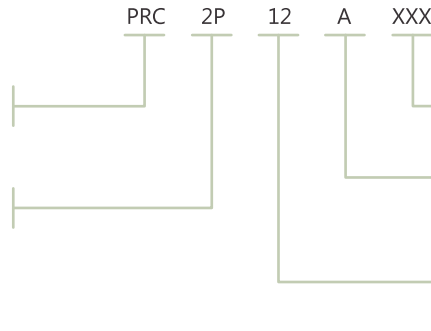
S.No	Tech Data	PRC-30-1/2/3P	PRC-40-1P	PRC-60-1P	PRC-801p/100-1P
1	Size (mm)	42 X 51 X 67	78 X 48 X 50	78 X 48 X 50	83 X 48 X 72
2	Contact capacity	AC 30A/240V DC 30A/28V	AC 40A/240V DC 40A/28V	AC 60A/240V DC 60A/28V	AC 80A / 100A / 240V DC 80A / 100A / 28V
3	Contact Resistance	50 Initial	50 Initial	50 Initial	50 Initial
4	Contact configuration	1P / 2P / 3P	1P	1P	1P
5	Insulation resistance (mohms)	500 at 500V DC 25°C, 50 RH	500 at 500V DC 25°C, 50 RH	500 at 500V DC 25°C, 50 RH	500 at 500V DC 25°C, 50 RH
6	Dielectric Strength				
	Bet. Open Contacts	1500 VAC	2000 VAC	2000 VAC	2000 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 2W	<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

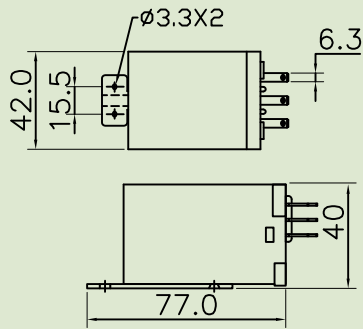


Special Features

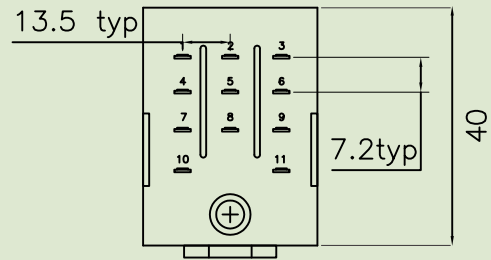
A = AC Voltage
BLANK = DC Voltage

Nominal Voltage
DC - 12,24 VDC
AC - 24,240 VDC
(other Voltage on request)

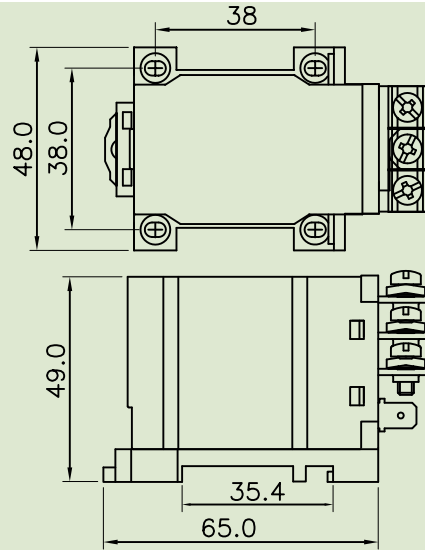
**POWER RELAY 30AMPS
OVERALL DIMENSIONS**



WIRING LAYOUT (BOTTOM VIEW)

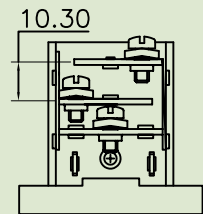
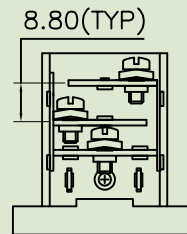


**POWER RELAY 40AMPS
OVERALL DIMENSIONS**

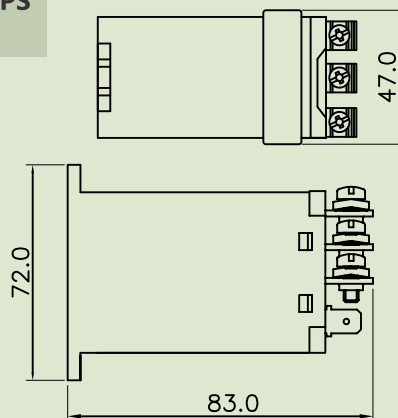


40AMPS

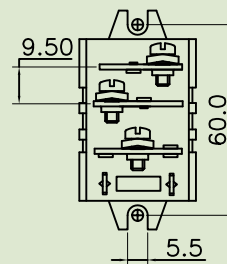
60AMPS



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



WIRING LAYOUT (BOTTOM VIEW)





PCB Mounting Relay 5 Amps / 10 Amps Resistive at 30VDC / 240VAC equivalent to G2R



STR PCB
Enclosed Version Sealed Dust Proof

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



Automotive Power Relays 70 Amps Resistive at 14V DC

★ The Above Relays are Available on Request

NOTES _____

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