

O/E/N 35

MEDIUM POWER AUTOMOTIVE RELAY

FEATURES

- Direct PCB mountable
- Suitable for various loads
- Miniature size

APPLICATION

- Turn signal & hazard warning lights
- Flashers
- Wiper controls
- Head lamp control
- Starter motors
- Security systems

TECHNICAL DATA FOR CONTACT SIDE :

Model	: 3521	3531	3541
Areas of Application	Indicator Lamp Load	Resistive / Inductive Load	Head Lamp Load
Contact Configuration	: 1 Form A (1 NO)	1 Form A (1 NO), 1 Form C (1 CO)	1 Form A (1 NO)
Contact Material	: Palladium Copper*/ Silver Nickel	Silver Nickel	Silver Tin Oxide
Contact Rating at 23°C - 12VDC	: 360W (Lamp)	30A/20A (Res.)	20A (Lamp)
24VDC	: 180W (Lamp)		10A (Lamp)
Electrical Life in No. of Operations Min.	: 1×10^5	1×10^5	1×10^5
Mechanical Life in No. of Operations Min.	: 1×10^7	1×10^7	1×10^7
Contact Voltage Drop at 10 A (Max.)	: 100mV	60mV	60mV
Maximum Switching Current @ 12.8 VDC For 3 Sec.	: 50A	50A	50A

*The moving contact (PdCu) must be connected to positive polarity

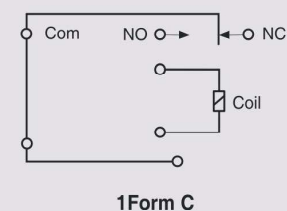
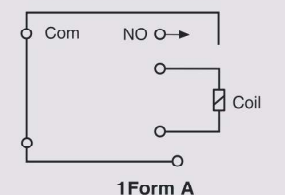
GENERAL DATA FOR COIL SIDE

Nominal Coil Power	: 1.63W (Approx)
Operate Time	: 15 milli Seconds (Typ)
Release Time	: 15 milli Seconds (Typ)

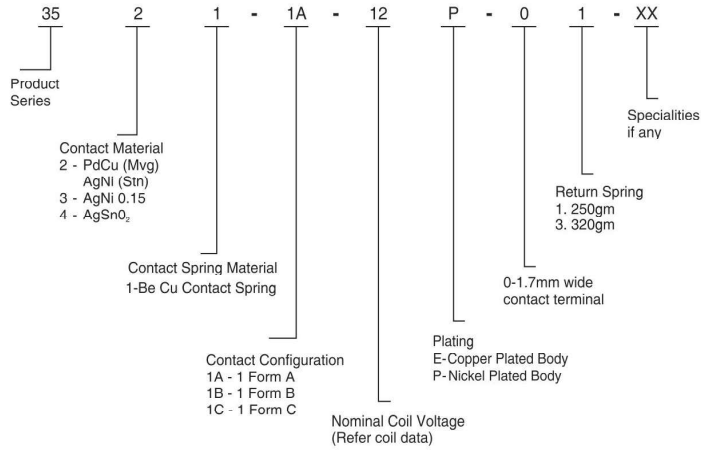
OPERATING CONDITIONS

Ambient Temperature	: -40°C to +85°C
Maximum Temperature	: 155°C
Dielectric Strength	
Between open contacts	: 500 VRMS
Insulation Resistance	: 100 MegaOhms Min. at 500 VDC, 25°C RH 50
Vibration Resistance	: 10-100Hz, 20 - 40g (Change in switching state not more than 10μS)
Shock Resistance	: 30g, 8mS (Change in switching state not more than 10μS)
Weight	: 25 gms Max.

WIRING DIAGRAM



HOW TO ORDER

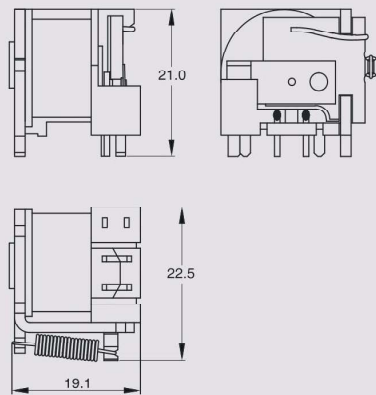


COIL DATA

Nominal Voltage VDC	**Pick-up Voltage VDC (Max)	Drop-out Voltage VDC (Min)	Coil Resistance Ohms $\pm 10\%$
6	5	0.6	35
9	7	0.9	55
12	9	1.2	88
18	14	1.8	260
24	18	2.4	400
48	36	4.8	1700

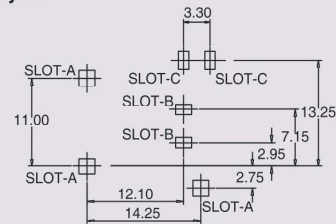
** Lower pick-up voltages available on request

DIMENSIONS



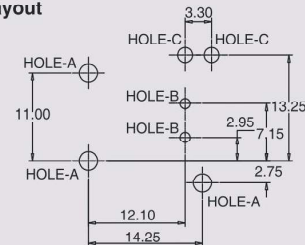
DRILLING PATTERN

PC Slot Layout



SLOT - A	SLOT - B	SLOT - C
SQ 2.0 $+0.1$ -0.0	SQ 1.3 $+0.1$ -0.0	1.3 $+0.1$ x 2.3 $+0.1$ -0.0 - 0.0

PC Hole Layout



HOLE - A	HOLE - B	HOLE - C
$\phi 2.30$ $+0.1$ -0.0	$\phi 1.3 \pm 0.1$	$\phi 1.9 \pm 0.1$

Note : General Tolerance : ± 0.1

AVAILABLE ON REQUEST

- Extra braided wire
- For custom solutions consult factory