

O/E/N 54

HEAVY DUTY AUTOMOTIVE POWER RELAY



FEATURES

- Limiting continuous current upto 70A
- Unique twin contact
- Direct PCB mountable

APPLICATION

- Glow plug timers
- Start stop
- Starter safely
- Engine cooling fan
- Heating elements
- Heavy duty direction indicators

TECHNICAL DATA FOR CONTACT SIDE :

Areas of Application		Resistive / Inductive/capacitive Load
Contact Configuration	:	1 Form A (1 NO)
Contact Material	:	Silver Alloy
Limiting Current	- 13.5 VDC	70A at 23°C, 50A at 85°C
	24 VDC	35A at 23°C, 25A at 85°C
Electrical Life in No. of Operations Min.		
	Silver Nickel Alloy	5 x 10 ⁴ cycles at 13.5 VDC/50A (4 glow plugs)
	Silver Tin Alloy	100 Hrs at 24 VDC/5A (Flasher load at 90cpm)
		1 x 10 ⁵ cycles at 13.5 VDC/60A (Res. load)
		1 x 10 ⁵ cycles at 24 VDC/30A (Res. load)
Mechanical Life in No. of Operations Min.	:	1 x 10 ⁶
Contact Voltage drop at 10 A (Max.)	:	50mV
Max. Switching Current		
@ 12VDC For 1 Sec.	:	Make - 300A, Break - 70A (Make break ratio 1:10)

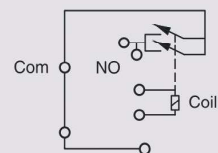
GENERAL DATA FOR COIL SIDE

Nominal Coil Power	:	2.25W (Approx)
Operate Time	:	10 milli Seconds (Typ)
Release Time	:	5 milli Seconds (Typ)

OPERATING CONDITIONS

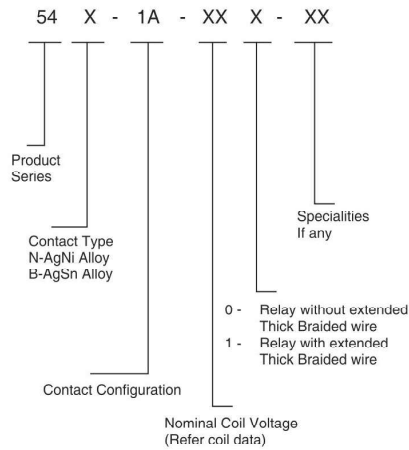
Ambient Temperature	:	-40°C to +85°C
Dielectric Strength		
Between open contacts	:	500 VRMS
Insulation Resistance	:	100 MegaOhms Min. at 500 VDC, 25°C RH 50
Vibration Resistance	:	10 - 55Hz, 4.4g (Change in switching state not more than 10μS)
Shock Resistance	:	30g, 11mS (Change in switching state not more than 10μS)
Weight	:	25 gms Max.

WIRING DIAGRAM



Relays with Pre-contact

HOW TO ORDER



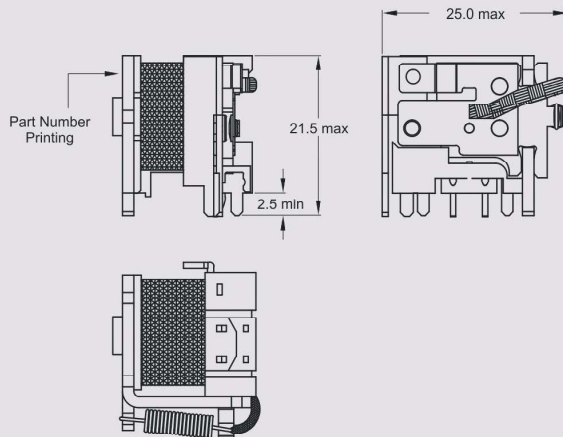
COIL DATA

Nominal Voltage VDC	*Pick-up Voltage VDC (Max)	Drop - Out Voltage VDC (Min)	Coil Resistance Ohms $\pm 10\%$
12	8.0	1.5	64
24	16.0	2.4	260

*Lower pick-up voltages available on request

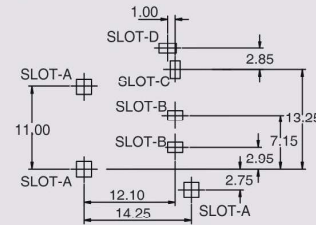
DIMENSIONS

WITHOUT EXTENDED BRAIDED WIRE



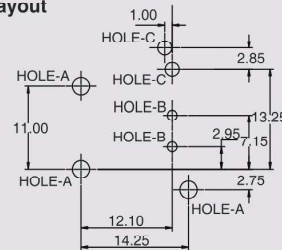
DRILLING PATTERN

PC Slot Layout



SLOT - A	SLOT - B	SLOT - C	SLOT - D
SQ 2.0 ^{+0.1} _{-0.0}	SQ 1.3 ^{+0.1} _{-0.0}	1.3 ^{+0.1} _{-0.0} x 2.3 ^{+0.1} _{-0.0}	2.3 ^{+0.1} _{-0.0} x 1.3 ^{+0.1} _{-0.0}

PC Hole Layout



HOLE - A	HOLE - B	HOLE - C
$\phi 2.30^{+0.1}_{-0.0}$	$\phi 1.3 \pm 0.1$	$\phi 2.1 \pm 0.1$

Note : General Tolerance : ± 0.1

AVAILABLE ON REQUEST

- For custom solutions consult factory