

O/E/N 35HT

HEAVY DUTY AUTOMOTIVE POWER RELAY

FEATURES

- Direct PCB mountable
- High performance
- Heavy duty
- Extra braided wire

APPLICATION

- Glow plug timer
- Heating elements

TECHNICAL DATA FOR CONTACT SIDE :

Areas of Application

Contact Configuration :

Resistive / Inductive Load

1 Form A (1 NO)

Contact Material :

Silver Alloy

Contact Rating

Continuous

1) 50A glow plug load at 12VDC
(Coil voltage = 13.2VDC at 85°C) for 500Hrs.

2) 70A glow plug load at 12 VDC
(Coil voltage = 13.2 VDC at 23°C) for 500Hrs.

Switching

70A at 13.5 VDC (glow plug load) for 50000 cycles with 1 Sec. ON, 35 Sec. OFF.

Electrical Life in No. of Operations Min. : 5×10^4

Mechanical Life in No. of Operations Min. : 1×10^7

Contact Voltage Drop at 10 A (Max.) : 50mV

Maximum Switching Current

@ 12.8 VDC For 3 Sec.

Make - 300A / Break - 70A (Make & Break Ratio of 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

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

: 10-55Hz, 20g - 40g
(Change in switching state not more than 10μS)
Displacement 0.75mm

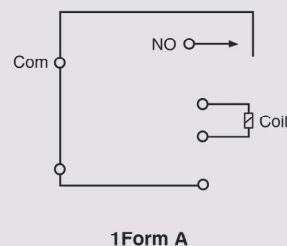
Shock Resistance

: 30g, 11mS
(Change in switching state not more than 10μS)

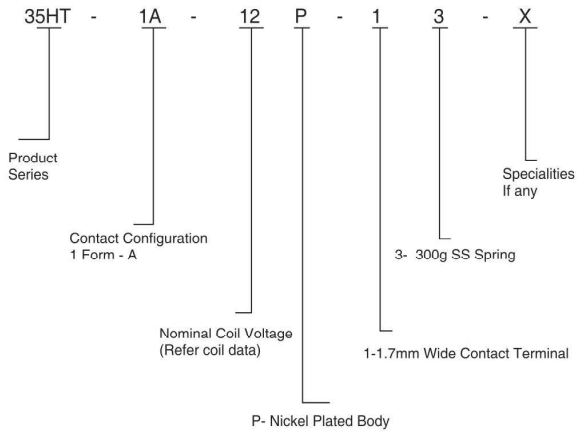
Weight

: 25 gms Max.

WIRING DIAGRAM



HOW TO ORDER

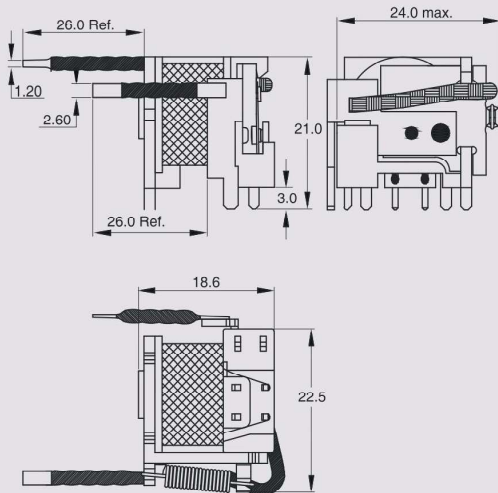


COIL DATA

Nominal Voltage VDC	*Pick-up Voltage VDC (Max)	Droop out Voltage VDC (Min)	Coil Resistance at 20°C Ohms ± 10%
12	7.2	2.4	64

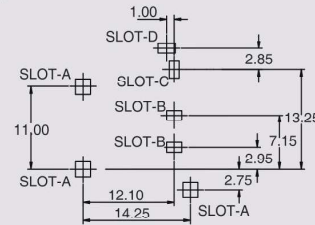
*Lower pick-up voltages available on request

DIMENSIONS



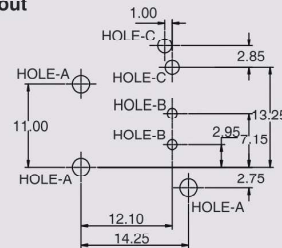
DRILLING PATTERN

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
ø2.30 ^{+0.1} _{-0.0}	ø1.3±0.1	ø2.1±0.1

Note : General Tolerance : ±0.1

AVAILABLE ON REQUEST

- For other custom solutions consult factory