

# O/E/N 35H

## HEAVY DUTY AUTOMOTIVE POWER RELAY

### FEATURES

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

### APPLICATION

- Direction indicators
- Air-conditioning systems
- Wiper controls
- Head lamp control
- Starter motors
- Ventilation motors

### TECHNICAL DATA FOR CONTACT SIDE :

| Model  | : 35HA                     | 35HB                        |
|--|----------------------------|-----------------------------|
| Areas of Application                               | Resistive / Inductive Load | Head Lamp / Capacitive Load |
| Contact Configuration                              | : 1 Form A (1 NO)          | 1 Form A (1 NO)             |
| Contact Material                                   | : Silver Cadmium Oxide     | Silver Tin Oxide            |
| Contact Rating at 23°C -                           | 12VDC : 40A (Res.)         | 40A (Lamp)                  |
|  | 24VDC : 20A (Res.)         | 20A (Lamp)                  |
| Electrical Life in No. of Operations Min.          | : $1 \times 10^5$          | $1 \times 10^5$             |
| Mechanical Life in No. of Operations Min.          | : $1 \times 10^7$          | $1 \times 10^7$             |
| Contact Voltage Drop at 10 A (Max.)                | : 60mV                     | 50mV                        |
| Maximum Switching Current<br>@ 12.8 VDC For 3 Sec. | : 150A                     | 150A                        |

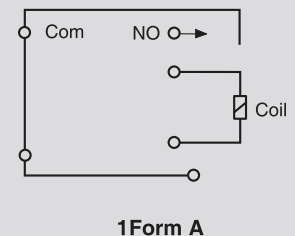
### GENERAL DATA FOR COIL SIDE

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

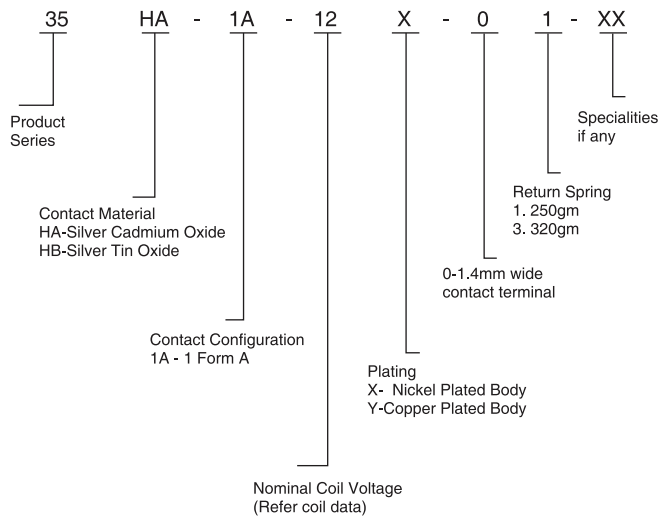
### OPERATING CONDITIONS

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

### WIRING DIAGRAM



## HOW TO ORDER

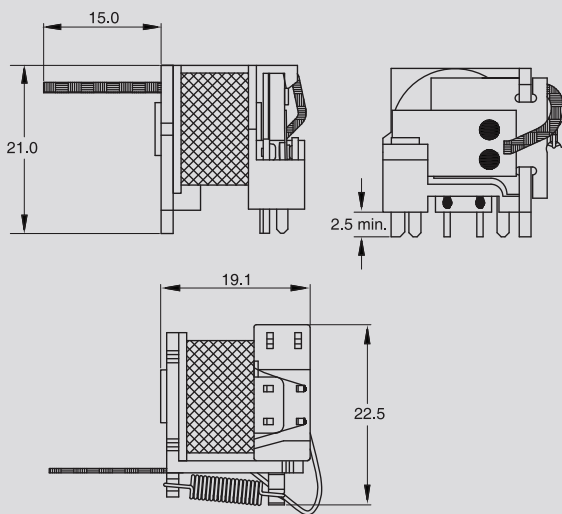


## COIL DATA

| Nominal Voltage VDC | *Pick-up Voltage VDC (Max) | Drop-out Voltage VDC (Min) | Coil Resistance Ohms ± 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                       |

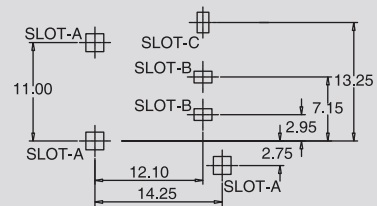
\* Lower pick-up voltages available on request

## DIMENSIONS



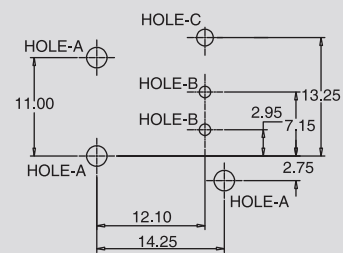
## DRILLING PATTERN

### PC Slot Layout



| SLOT - A                               | SLOT - B                               | SLOT - C  |
|--|--|---|
| SQ 2.0 <sup>+0.1</sup> <sub>-0.0</sub> | SQ 1.3 <sup>+0.1</sup> <sub>-0.0</sub> | 1.3 <sup>+0.1</sup> <sub>-0.0</sub> x 2.3 <sup>+0.1</sup> <sub>-0.0</sub> |

### PC Hole Layout



| HOLE - A                              | HOLE - B | HOLE - C |
|---------------------------------------|----------|----------|
| ∅2.30 <sup>+0.1</sup> <sub>-0.0</sub> | ∅1.3±0.1 | ∅1.9±0.1 |

Note : General Tolerance : ±0.1

## AVAILABLE ON REQUEST

- For other custom solutions consult factory