



## HE3600 Miniature S.I.L. Relay Features and Benefits

### Features

- Miniature single in line
- Optional coil suppression diode to protect coil drive circuits
- Normally open contact version
- Specialist ATE version
- External magnetic shield option
- Diode suppression option

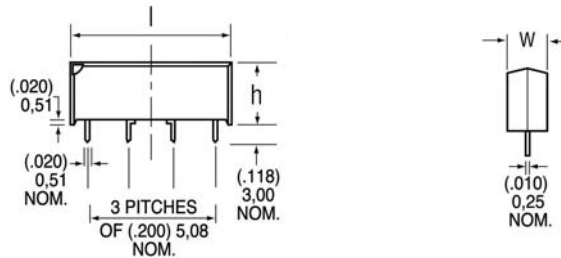
### Benefits

- Sub-miniature size and single in line configuration allows very high packing densities, minimising space and cost
- Designed specifically to meet the ATE environment
- Lower power coil consumption than competing electromechanical devices
- Hermetically sealed switching contact is immune to the effects of its environment
- Transfer moulded package gives maximum component protection

### Applications

- Telecoms
- Instrumentation
- Process
- Automatic Test Equipment

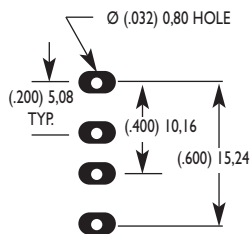
## DIMENSIONS (in) mm



**Table I**

| Relay Type | Body Type       | l            | w           | h           |
|------------|-----------------|--------------|-------------|-------------|
| HE3600     | Transfer Molded | (.750) 19,05 | (.200) 5,08 | (.300) 7,62 |
|            | External Shield | (.795) 20,20 | (.238) 6,05 | (.310) 7,87 |

## HE3600 PCB LAYOUT (Bottom View) ORDERING INFORMATION



### PART NUMBER HE36XX X XX XX

**Model Number**  
 HE3621 - Standard  
 HE3671 - Data Switching

**Contact Type**  
 A - Form A (SPST-NO)

**Standard Coil**  
 05 - 5 Volt  
 12 - 12 Volt  
 24 - 24 Volt

**EXAMPLE:** The HE3621A0550 is a I Form relay with a 5 Volt coil and external magnetic shield and diode

**General Options**  
 00 - No Options  
 10 - Diode Suppressed Coil  
 40 - External Magnetic Shield  
 50 - External Magnetic Shield and diode

See next page for: **Electrical and Operating Characteristics Description and Coil Characteristics**

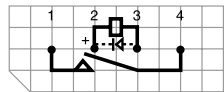
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**Table 2** HE3600 Series  Recognised File #E47258 **Electrical and Operating Characteristics @ 25°C.**

| Contact Type   |  |  | Form A<br>SPST-NO<br>Standard             | Form A<br>SPST-NO<br>Data<br>Switching    |
|--|--|--|---|---|
| Relay Types  |  |  | HE3621A                                   | HE3671A                                   |
| CONTACT RATINGS<br>Contact Hamlin<br>for specific<br>load/life details | Power, Switching<br>Voltage, Switching<br>Current, Switching<br>Current, Carry                 | Watt - max.<br>Vdc - max.<br>A - max.<br>A - max.  | 10<br>200<br>0.5<br>1.2                   | 10<br>200<br>0.5<br>0.8                   |
| VOLTAGE<br>HOLD-OFF  | Across Open Contacts<br>Contacts to Coil<br>Between Isolated Terminals                         | Vdc - min.<br>Vac - min.<br>Vac - min.   | 250<br>1500<br>1500                       | 250<br>1500<br>1500                       |
| RESISTANCE   | Contact, Initial<br>Insulation: Across Open Contacts<br>Between Isolated Terminals             | $\Omega$ - max.<br>$\Omega$ - min.<br>$\Omega$ - min.  | 0.150<br>$10^{10}$<br>$10^9$              | 0.100<br>$10^{11}$<br>$10^{11}$           |
| TIMING   | Operate Time<br>Release Time   | ms - max.<br>ms - max.   | 0.5<br>0.5                                | 0.5<br>0.5                                |
| ENVIRONMENTAL  | Temperature, Operating<br>Temperature, Storage<br>Vibration Resistance<br><br>Shock Resistance | $^{\circ}\text{C}$<br>$^{\circ}\text{C}$<br>G - max.<br>10-2000 Hz.<br>G - max.<br>11 ms, 1/2 sine | -40 to +85<br>-40 to +105<br>20<br><br>50 | -40 to +85<br>-40 to +105<br>20<br><br>50 |

**Table 3** HE3600 Series Miniature Relay **Coil Characteristics @ 25°C.**

| Contact Form & Type | Electrical & Operating Characteristics | Dimensions  | Part Number  | Nominal Coil Voltage Vdc | Coil Resistance $\pm 10\%$ Ohms | Must Operate Vdc    | Must Release Vdc  | Maximum Coil Voltage Vdc | Top View 2,54 mm, 0.1 in. Grid<br>Dot on Case: Pin 1<br>Numbers not printed on case.  |
|---------------------|--|-------------|--|--------------------------|---------------------------------|---------------------|-------------------|--------------------------|---|
| IA<br>SPST-NO       | See Table 2                            | See Table 1 | HE3621A0500<br>HE3671A0500<br>HE3621A1200<br>HE3671A1200<br>HE3621A2400<br>HE3671A2400 | 5<br>12<br>24            | 500<br>1000<br>2150             | 3.75<br>8.0<br>16.0 | 0.5<br>1.0<br>2.0 | 14<br>22<br>31           |  |

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