

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 and normally closed contact versions
- Specialist ATE version
- External magnetic shield option
- Coaxial 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

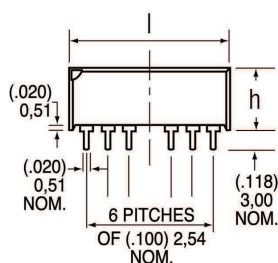


Figure 1
HE3621A (Coaxial)

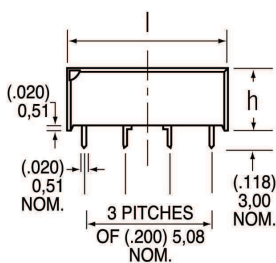


Figure 2
HE3621A, HE3671A

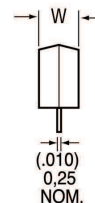
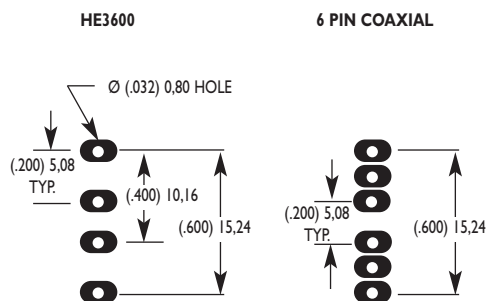


Figure 3
HE3600 (All)

Table 1

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)
B - Form B (SPST-NC)

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
20 - Coaxial Shield
(available on form A only diode not available)
40 - External Magnetic Shield
50 - External Magnetic Shield and Diode

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

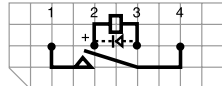
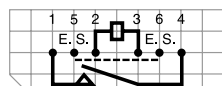
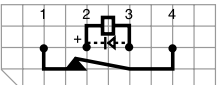
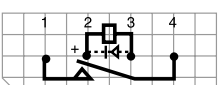
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Table 2 HE3600 Series  **Recognised File #E47258** Electrical and Operating Characteristics @ 25°C.

Column Number			1	2	3
Contact Type			Form A SPST-NO Standard	Form A SPST-NO Data Switching	Form B SPST-NC Standard
Relay Types			HE3621A	HE3671A	HE3621B
CONTACT RATINGS	Power, Switching	Watt - max.	10	10	10
Contact Hamlin	Voltage, Switching	Vdc - max.	200	200	200
for specific	Current, Switching	A - max.	0.5	0.5	0.5
load/life details	Current, Carry	A - max.	1.2	0.8	1.2
VOLTAGE	Across Open Contacts	Vdc - min.	250	250	250
HOLD-OFF	Contacts to Coil	Vac - min.	1500	1500	1500
	Between Isolated Terminals	Vac - min.	1500	1500	1500
RESISTANCE	Contact, Initial	Ω - max.	0.150	0.100	0.150
	Insulation: Across Open Contacts	Ω - min.	10 ¹⁰	10 ¹¹	10 ¹⁰
	Between Isolated Terminals	Ω - min.	10 ¹⁰	10 ¹¹	10 ¹⁰
TIMING	Operate Time	ms - max.	1.0	1.0	1.0
	Release Time	ms - max.	1.0	1.0	1.0
ENVIRONMENTAL	Temperature, Operating	°C	-40 to +85	-40 to +85	-40 to +85
	Temperature, Storage	°C	-40 to +105	-40 to +105	-40 to +105
	Vibration Resistance	G - max.	20	20	20
		10-2000 Hz.			
	Shock Resistance	G - max.	50	50	50
		11 ms, ½ sine			

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 ±10% Ohms	Must Operate Vdc	Must Release Vdc	Maximum Coil Voltage Vdc	Top View 2,54 mm, 0.1 in. Grid Dot on Case: Pin 1 Numbers not printed on case.
IA SPST-NO	See Table 2 Column 1	See Figure 2	HE3621A0500	5	500	3.75	0.5	14	
			HE3621A1200	12	1000	8.0	1.0	22	
			HE3621A2400	24	2150	16.0	2.0	31	
IA SPST-NO Coaxial Switching	See Table 2 Column 1	See Figure 1	HE3621A0520	5	200	3.75	0.5	12	
			HE3621A1220	12	500	8.0	1.0	22	
			HE3621A2420	24	1000	16.0	2.0	31	
IB SPST-NC	See Table 2 Column 3	See Figure 2	HE3621B0500	5	500	3.75	0.5	See Note 1, 2 6.0 14.0	
			HE3621B1200	12	1000	8.0	1.0		
IA SPST-NO Data Switching	See Table 2 Column 2	See Figure 2	HE3671A0500	5	500	3.75	0.5	14	
			HE3671A1200	12	1000	8.0	1.0	22	
			HE3671A2400	24	2150	16.0	2.0	31	

- Notes: 1) HE3621B - Exceeding recommended voltage may cause contact reclosure.
2) External magnetic shielding not available on 12 Volt Form B relays.

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