

HE3300 S.I.L Relay Features and Benefits



Features

- Miniature single in line package
- Available with 5V, 12V or 24V coil options as standard
- High voltage switching version
- Normally open and change over contact configurations available
- External magnetic shield option

Benefits

- Single in line configuration allows high packing densities, minimizing space and cost
- Lower power coil consumption than competing electromechanical devices
- Hermetically sealed switching contact is immune to its environment
- Transfer molded package gives maximum component protection

Applications

- Security
- Telecom
- Process Control
- Automatic Test Equipment
- Instrumentation

DIMENSIONS (in) mm

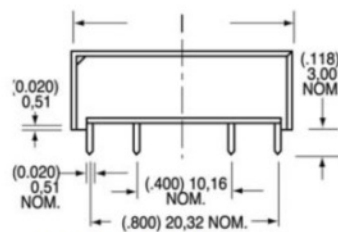


Figure 1 HE3321A, HE3351A

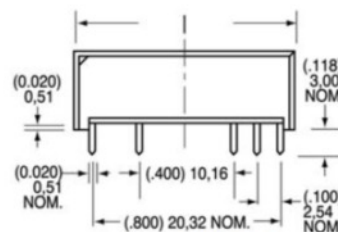


Figure 2 HE3321C

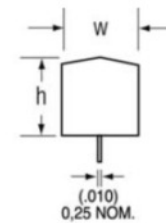


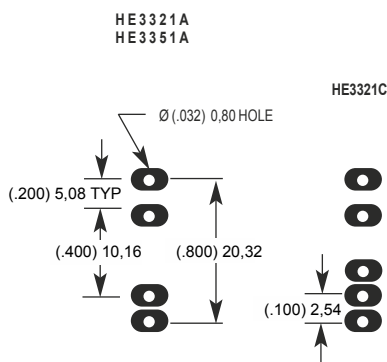
Figure 3 HE3300 (All)

Table 1

Relay Type	Body Type	l	w	h
HE3300	Transfer Molded	(.950) 24,13	(.276) 7,00	(.291) 7,40
	External Shield	(.980) 24,90	(.299) 7,60	(.307) 7,80

HE3300 PCB LAYOUT (Bottom View)

ORDERING INFORMATION



PART NUMBER HE33XX X XX XX

Model Number

HE3321 - Standard
HE3351 - High Voltage

General Options

00 - No Options
40 - External Magnetic Shield

Contact Type

A - Form A (SPST-NO)
C - Form C (SPDT-CO)

Standard Coil

04 - 5 Volt
12 - 12 Volt
24 - 24 Volt

Example: The HE3321A0440 is a 1 Form A with a 5 Volt coil and external magnetic shield.

See next page for: Electrical, Operating and Coil Characteristics

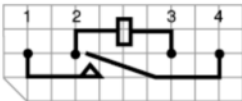
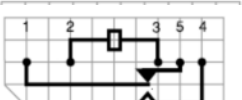
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TABLE 2 **HE3300 Series Recognized File #E47258**  **Electrical and Operating Characteristics @ 25 °C**

Column Number			1	2	3
Contact Type			Form A SPST-NO Standard	Form A SPST-NO High Voltage	Form C SPST-CO Standard
Relay Types			HE3321A	HE3351A	HE3321C
CONTACT RATINGS Contact Hamlin for specific load/life details	Power, Switching	Watt - max.	10	10	5
	Voltage, Switching	Vdc - max.	200	300	175
	Current, Switching	A - max.	0.5	0.5	0.25
	Current, Carry	A - max.	1.2	1.5	1.5
VOLTAGE HOLD-OFF	Across Open Contacts	Vdc - min.	250	450	200
	Contacts to Coil	Vac - min.	2500	2500	2500
RESISTANCE	Contact, Initial	Ω - max.	0.150	0.150	0.200
	Insulation Across Open Contacts	Ω - min.	10 ¹⁰	10 ¹⁰	10 ¹⁰
	Insulation Between Isolated Terminals	Ω - min.	10 ¹⁰	10 ¹⁰	10 ¹⁰
TIMING	Operate Time	ms - max.	1.0	1.0	3.0
	Release Time	ms - max.	1.0	1.0	3.0
ENVIRONMENTAL	Temperature, Operating	°C	-40 to +85	-20 to +85	-40 to +85
	Temperature, Storage	°C	-40 to +105	-40 to +105	-40 to +105
	Vibration Resistance	G - max. 10-2000 Hz.	20	20	20
	Shock Resistance	G - max. 11 ms ½ sine	50	50	50

TABLE 3 **HE3300 Series 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.
1A SPST-NO	See Table 2 Column 1	See Figure 1	HE3321A0400	5	500	3.75	0.5	22	
			HE3321A1200	12	500	9.0	1.0	22	
			HE3321A2400	24	2000	18.0	2.0	44	
1C SPDT-CO	See Table 2 Column 3	See Figure 2	HE3321C0500	5	125	3.75	0.5	11	
			HE3321C1200	12	500	9.0	1.0	22	
			HE3321C2400	24	2000	18.0	2.0	44	
1A SPST-NO High Voltage	See Table 2 Column 2	See Figure 1	HE3351A0500	5	125	3.75	0.5	11	
			HE3351A1200	12	500	9.0	1.0	22	
			HE3351A2400	24	2000	18.0	2.0	44	

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