



PHL50

1 Form Z (Main)
1 Form C (Aux)

General characteristics

No. of poles	
Volume	45 cm ³ [2.75 in ³]
Mass	193 grams [.43 lb. Max]
Operate time @ 25° C	20 ms max.
Release time @ 25° C	20 ms max.
Bounce time @ 25° C	2 ms max.
Mechanical Life (reduced current)	100,000 cycles

Switching characteristics

Contact rating	Type of load (High level)	Cycles x 10 ³	28 Vdc	50Vdc
	Resistive		50	75 amps
Resistive		100	50 amps	n/a
Resistive		20	n/a	50 amps
Auxiliary contacts: Resistive 2 AMPS @ 28VDC				

Environmental characteristics

Temperature Range	-70°C to +125°C
Vibration, any axis (Sinusoidal)	20 g 10-2000 Hz
Shock, any axis	100 g 11 ms
Seal	Hermetic (1 x 10 ⁻⁸ atm cm ³ /s)

Electrical characteristics

Contact voltage drop (@ Rated resistive load)							
- Initial	125 mV Max.						
- After guaranteed life	250 mV Max.						
Dielectric strength @ sea level							
- Initial @ 60Hz	<table border="1"> <tr> <th>Coil to Case</th> <th>Main Contacts</th> <th>Contact to case</th> </tr> <tr> <td>1000 Vrms</td> <td>1000 Vrms</td> <td>1250 Vrms</td> </tr> </table>	Coil to Case	Main Contacts	Contact to case	1000 Vrms	1000 Vrms	1250 Vrms
Coil to Case	Main Contacts	Contact to case					
1000 Vrms	1000 Vrms	1250 Vrms					
Insulation Resistance							
- Initial	100 Megohms min. @ 500 Vdc						

PHL S 50A 28 E ***

RELAY TYPE
PHL50

OPTIONAL

'S' Internal Voltage suppressor

RELAY AMPS

50-75 AMPS

COIL CODE

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MOUNTING STYLE

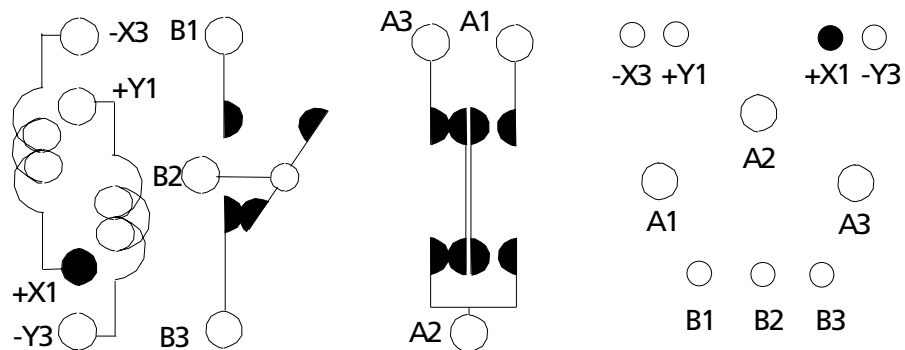
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'XXX' FOR SPECIAL INSTRUCTIONS OR
SPECIFICATIONS
(ASSIGNED BY DRI)

■ [Coil Characteristics](#)

COIL CODE	28
Nominal coil voltage	28
Maximum operate voltage at 20°C	14
Maximum operate voltage at 125°C	20
Coil resistance (ohms $\pm 10\%$ at 20°C)	145
Maximum coil transient suppression (where applicable) VDC	-42

■ [Circuit Diagram](#)



PHL50 Technical Characteristics

Mounting styles

DIMENSIONS ARE IN MM (IN.)
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS $\pm 0,25$ [.010]

