

75 Series Electromechanical Relay Selection Guide



75 series relays are general purpose relays designed for a wide range of applications, from power to sequence controls in various factory machines and control panels. They are ideal for electrical control panels requiring stable and reliable relays.

Features

- Octal base design
- Silver Cadmium Oxide, gold flashed contacts
- High open contact dielectric strength (1,500 V rms)
- High reliability and long life
- High vibration and shock resistance
- Flag indicator shows relay status in manual or powered condition
- LED indicator on all models, so you can easily see if relay is working properly without using a voltmeter
- A pushbutton allows manual operation of the relay without the need for power to the coil
- I.D. tag/write label for identifying relays in multi-relay circuits

75 Series Relay Selection Guide							
Part Number	Price	Coil Voltage	Configuration	Contact Rating	Dimensions	Relay Socket Part Number	Price
750-2C-12D	<--->	12VDC	DPDT	12A	Figure 1	750-2C-SKT	<--->
750-2C-12A	<--->	12VAC					
750-2C-24D	<--->	24VDC					
750-2C-24A	<--->	24VAC					
750-2C-120A	<--->	120VAC					
750-2C-240A	<--->	220VAC					
750-3C-12D	<--->	12VDC	3PDT		Figure 2	750-3C-SKT	<--->
750-3C-12A	<--->	12VAC					
750-3C-24D	<--->	24VDC					
750-3C-24A	<--->	24VAC					
750-3C-120A	<--->	120VAC					
750-3C-240A	<--->	240VAC					

Order socket separately.

Dimensions

inches [mm]

Figure 1: 750-2C-xxx

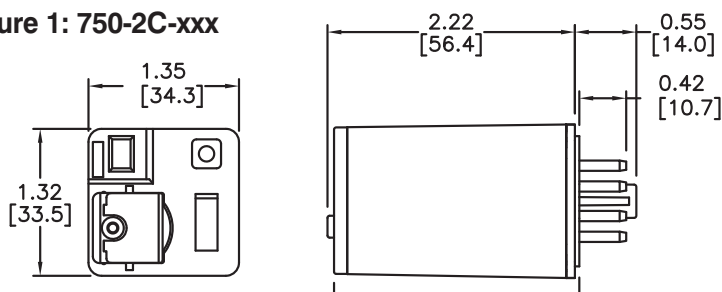
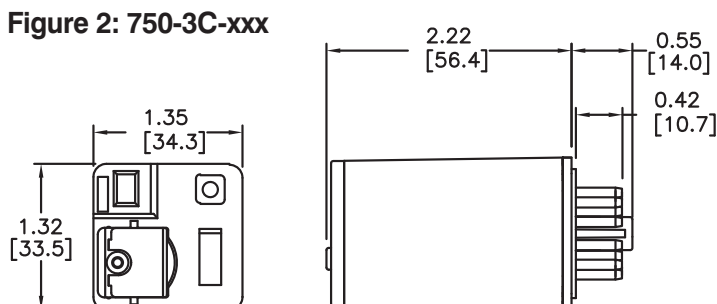
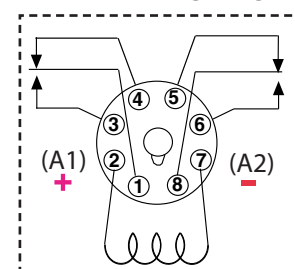


Figure 2: 750-3C-xxx



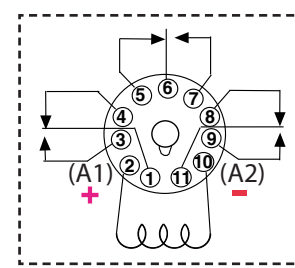
Wiring

750-2C-xxx wiring diagram



Note: Contacts and coil shown are internal to the relay

750-3C-xxx wiring diagram



Note: Contacts and coil shown are internal to the relay

75 Series Electromechanical Relay Specifications

75 Series Specification Table												
Part Numbers	750-2C-12D	750-2C-12A	750-2C-24D	750-2C-24A	750-2C-120A	750-2C-240A	750-3C-12D	750-3C-12A	750-3C-24D	750-3C-24A	750-3C-120A	750-3C-240A
General Specifications												
Service Life	Mechanical: 5 million operations, Electrical: 100,000 operations @ rated resistive load											
Operating Temperature	-40°C to 55°C (-40°F to 131°F)											
Response Time	20 ms											
Vibration Resistance	3 G's @ 10 to 55 Hz(0.6mm double amplitude)											
Shock Resistance	10 G's											
Weight	89 g (3.1 oz)											
*Agency Approvals and Standards	UL Recognized file E191059, CE, CSA Certified 244610											
Environmental Protection	IEC IP40											
Coil Specifications												
Standard	LED Indicator											
Coil Input Voltage	12VDC	12VAC	24VDC	24VAC	120VAC	240VAC	12VDC	12VAC	24VDC	24VAC	120VAC	240VAC
Coil Resistance	120Ω	18Ω	470Ω	72Ω	1.7kΩ	7.2kΩ	120Ω	18Ω	470Ω	72Ω	1.7kΩ	7.2kΩ
Power Consumption	3VA (60Hz) AC, 1.4W DC											
Dropout Voltage (% of rated voltage)	15% AC, 10% DC											
Pull-in Voltage	Max. 85% of nominal voltage or less											
Max. Voltage (Max. continuous voltage)	110% of the rated coil voltage											
Contact Specifications												
Contact Type	DPDT						3PDT					
Contact Material	Silver cadmium oxide, gold flashed											
Minimum Switching Requirement	100mA @ 5VDC											
Contact Rating	Refer to Contact Ratings chart											
Dielectric Strength Between Contacts	1500V rms											

*Note: UL listed when used with sockets 750-2C-SKT, 750-3C-SKT. Current limited to rating of relay or socket, whichever is less.

75 Series Contact Ratings (current)				
Resistive				Motor Load
Voltage	Nominal	UL	CSA	UL
28VDC	12A	12A	12A	---
120VAC	12A	12A	12A	1/3Hp
240VAC	12A	12A	12A	1/2Hp