

## Description

# Magnecraft™ General Purpose Relays

## 755 Latching Series

### DPDT 16 A



UL listed when used with proper Magnecraft™ sockets



755 Magnetic Latching Relay

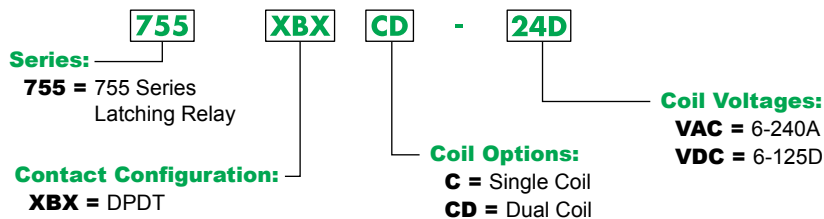
## Description

The 755 Octal-Base Magnetic Latching relays deliver the same performance as the 750 Plug-In Power relays while adding latching functionality and saving energy. When the relay is first pulsed, a permanent magnet maintains this operating position until a second pulse resets the relay back to its original state.

Feature	Benefit
Latching functionality	Energy-saving operation
Octal style mounting	Robust & historically-proven mounting platform that provides excellent structural support
16 A max. switching current	Ideal for automation panels & controls
DPDT contact configuration	Simultaneously control up to 2 separate circuits
Socket mount option	Simplifies installation & maintenance while also allowing the use of protection modules, hold-down clips & other accessories
Gold-flashed contacts	Reduces contact oxidation & increases shelf life

Contact Rating	Contact Configuration	Nominal Voltage	Coil Resistance (Ω)	Feature	Standard Part Number
16 A	DPDT	24 Vac 50/60 Hz	470	Single Coil	755XBXC-24A
		120 Vac 50/60 Hz	10,000		755XBXC-120A
		12 Vdc	90/90	Dual Coil	755XBXCD-12D
		24 Vdc	350/350		755XBXCD-24D
		110 Vdc	9000/9000		755XBXCD-110D

## Part Number Explanation



\*Please note that non-standard voltages are also available.  
Please contact Customer Service for more information (847-441-2540).

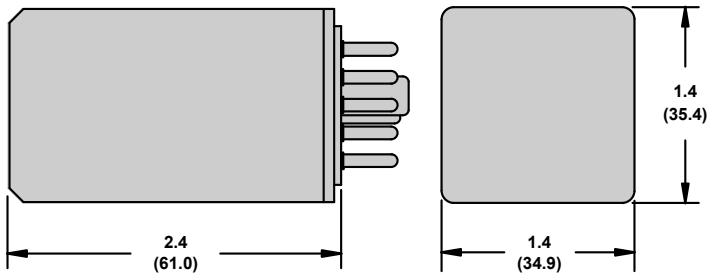
Specifications (UL 508)

Part Number	755XBX
<b>Contact Characteristics</b>	
Terminal Style	Octal
Contact Configuration	DPDT
Maximum Current	16 A
Load Type	Standard
Contact Materials	Silver Alloy
Maximum Switching Voltage	300 V
Rated Switching Current at Voltage	<b>Resistive:</b> 16 A at 277 Vac 50/60 Hz; 16 A at 28 Vdc <b>Motor:</b> 1/3 hp at 120 Vac 50/60 Hz; 1/2 hp at 240 Vac 50/60 Hz <b>Pilot Duty:</b> B300
Minimum Switching Requirement	100 mA at 5 Vdc (0.5 W)
<b>Coil Characteristics</b>	
Maximum Operating Voltage	110% (AC / DC)
Maximum Pickup Voltage	85% (AC); 80% (DC)
Drop-out Voltage Threshold	15% (AC); 10% (DC)
Average Consumption	2 VA (AC); 1.64 W (DC)
<b>General Characteristics</b>	
Electrical Life at Rated Load	100,000 operations
Mechanical Life (Unpowered)	10,000,000 operations
Operating Time (Response Time)	30 ms
Dielectric Strength - Between Coil and Contact (AC)	1500 V(rms)
Dielectric Strength - Between Poles (AC)	2500 V(rms)
Dielectric Strength - Between Contacts (AC)	2500 V(rms)
Ambient Air Temperature around the Device - Storage	-40 – +55.25 °C (-40 – +131.45 °F)
Ambient Air Temperature around the Device - Operation	-40.25 – +85.25 °C (-40.45 – +185.45 °F)
Vibration Resistance - Operational	3 g-n at 10-55 Hz
Shock Resistance	10 g-n
Degree of Protection	IP 40
Weight	170 g (6.0 oz)
Agency Approvals	UL with socket, UR (E43641), CE, CSA (LR40787), RoHS

Note: Actual product performance may vary depending on application and environmental conditions.

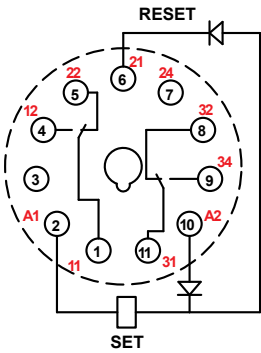
Dimensions — inches (millimeters)

755XBX

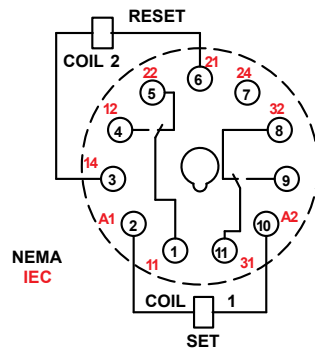


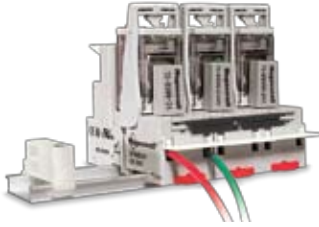
Wiring Diagrams

Single Coil (AC)



Dual Coil (DC)





### Description

Optional sockets offer customizable, finger-safe™ solutions including protection modules, hold-down clips, and ID tags. Sockets are DIN rail and panel mount compatible.

### Relay Accessories



Description	Function	For Use With Relays	Pkg. Min.	Standard Part Number
Socket 1	DIN/Panel mount with elevator terminals, module compatible	755	10	70-750E11-1
Socket 2	DIN/Panel mount with elevator terminals, module compatible	755	10	70-750EL11-1
Socket 3	DIN/Panel mount, module compatible	755	10	70-750DL11-1
Socket 4	DIN/Panel mount with screw terminals & clamping plates	755	10	70-465-1
Socket 5	Panel mount with screw terminals & clamping plates	755	10	70-170-1

### Socket Accessories



Description	Function	For Use With Sockets	Coil Voltage	Pkg. Min.	Standard Part Number
Metal Spring Clip 1	Secures relay in socket	70-750E11-1, 70-750EL11-1, 70-465-1	–	10	16-1351
Plastic I.D. Tag 2	Write-on plastic labels	70-750E11-1, 70-750EL11-1	–	10	16-750/788FT-1
Aluminum DIN Rail, 39.37" (1000 mm) 3	Quick installation and removal of sockets	70-750E11-1, 70-750EL11-1, 70-750DL11-1, 70-465-1	–	10	16-700DIN
DIN Rail End Clip 3	Holds sockets firmly in place on DIN rail	–	–	10	16-DCLIP-1
Insulated Coil Bus Jumper System 4	Wireless socket connection	70-750DL11-1, 70-750EL11-1	–	10	16-750/788CBJ-1
Large Socket Module	MOV Suppressor <i>(Protects from damaging electrical spikes)</i>	70-750E11-1, 70-750EL11-1, 70-750DL11-1	24 Vac/Vdc	10	70-ASMM-24
Large Socket Module	Protection Diode <i>(Protects external drive circuitry from inductive voltages)</i>		120 Vac/Vdc	10	70-ASMD-250
Large Socket Module 5	LED Indicator <i>(Provides coil status at a glance)</i>		110/240 Vac/Vdc	10	70-ASMLG-110/240
Large Socket Module	RC Suppressor <i>(Snubs back EMF of relay coil)</i>		110/240 Vac/Vdc	10	70-ASMR-110/240

Note: Use of LED or RC socket module may increase coil power draw by up to 10%.