

785 Magnetic Latching Square Base Relay/DPDT, 16 Amp Rating



High strength magnetic latch helps contacts hold during vibration.



Single and Dual (DC only) coil available.

16 Amp switching capabilities

Standard .1875 blade style socket mounting.

General Specifications

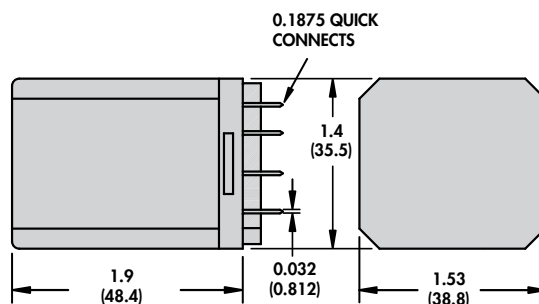
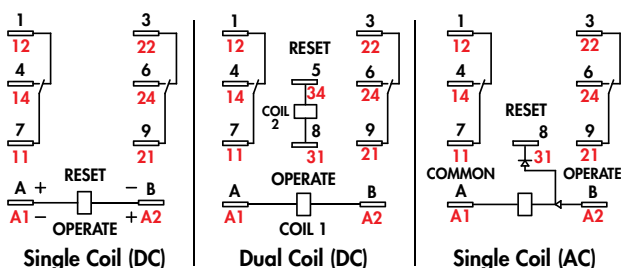
(UL 508)

785XBX

Contact Characteristics		Units	Standard
Number and type of Contacts			DPDT
Contact materials			Silver Alloy
Thermal (Carrying) Current		A	16
Maximum Switching Voltage		V	300
Switching Current @ Voltage		~	Resistive
		~	16A @ 277V 50/60Hz
		~	16A @ 120V 50/60Hz
		~	16A @ 28V
		~	1/3 @ 120 VAC
		~	1/2 @ 240 VAC
		Pilot Duty	B300
Minimum Switching Requirement		mA	100 @ 5 VDC (.5W)
Coil Characteristics			
Voltage Range		~	V
		~	6...240, 50/60 Hz
Operating Range		~	V
		~	6...125
		~	85% to 110%
Average consumption		~	80% to 110%
		~	3
Drop-out voltage threshold		~	VA
		~	1.4
		~	15%
		~	10%
Performance Characteristics			
Electrical Life (UL508)		Operations @ Rated Current	(Resistive)
Mechanical Life		Unpowered	100,000
			5,000,000
Operating time (response time)			ms
			20
Dielectric strength		Between coil and contact	~
		Between poles	~
		Between contacts	~
			V(rms)
			1500
			1500
			1500
Environment			
Product certifications		Standard version	UL, CSA, CE
Ambient air temperature around the device		Storage	°C
			-40...+85
		Operation	°C
			-40...+55
Vibration resistance		Operational	g-n
			3, 10 - 55 Hz
Shock resistance			g-n
			10
Degree of protection			IP 40
Weight		grams	87

WIRING DIAGRAMS

NEMA
IEC





The 785 Magnetic Latching relay, with an Industry Standard square base, operates by using a pulsed input. A permanent magnet maintains the last position until a redirected second pulse moves the contacts back to the original state.

Standard Part Numbers

BOLD-FACED PART NUMBERS ARE NORMALLY STOCKED

Nominal Voltage	Coil Resistance	Part Number
AC Operated (Single Coil)		
6 VAC 50/60 HZ	32 Ohms	785XBXC-6A
12 VAC 50/60 HZ	120 Ohms	785XBXC-12A
24 VAC 50/60 HZ	470 Ohms	785XBXC-24A
120 VAC 50/60 HZ	10,000 Ohms	785XBXC-120A
240 VAC 50/60 HZ	40,000 Ohms	785XBXC-240A
DC Operated (Dual Coil)		
6 VDC	22/22 Ohms	785XBXCD-6D
12 VDC	88/88 Ohms	785XBXCD-12D
24 VDC	350/350 Ohms	785XBXCD-24D
48 VDC	1,400/1,400 Ohms	785XBXCD-48D
110/125 VDC	9,000/9,000 Ohms	785XBXCD-110D
DC Operated (Single Coil)		
12 VDC	120 Ohms	785XBXC-12D
24 VDC	470 Ohms	785XBXC-24D
110/125 VDC	10,000 Ohms	785XBXC-125D

Part Number Builder

785	XBX	C	-	240A
Series	Contact Configuration	Coil Options		Coil Voltage
785	DPDT = XBX	Single Coil = C		VAC = 6 - 240A
		Double Coil = CD		VDC = 6 - 125D

Other mating sockets see Section 2: 70-788EL11-1, 70-124-1, 70-124-2, 70-178-1, 70-178-2

70-788EL11-1
SOCKET

