UNIVERSAL ELECTRONIC SUPPLY CO.

103 Series - Contactor
SPST , 300 Amp

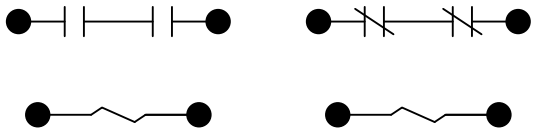
The 103, 300 Amp contactor is a heavy duty relay. Similar to the smaller 100 amp B101 the contactor uses a single pole with double make or double break switching. Contacts are protected in a molded plastic cover. Panel mounting is standard. The powerful electromagnetic structure produces high contact pressure which results in very reliable low resistance contacts for long life. The 103 series are ideally suited for applications in telecommunications, hoist and elevator industries, rail mass transit and others.

GENERAL SPECIFICATIONS (@ 25° C)

Contacts:	
Contact Configuration	SPST-NO-Double Make
Contact Material	Silver Alloy
Contact Rating	
120 / 240VAC Resistive	300 Amp
28VDC Resistive	
Motor 120VAC 1 Phase	
Motor 240VAC 1 Phase	
Contact Resistance, Initial	50 milliohms max @ 6VDC
Coil:	
Coils Available	AC and DC
Nominal Coil Power	32VA 11.6W
Input Voltage Tolerance - AC	85% to 110% of nominal
Input Voltage Tolerance - DC	80% to 110% of nominal
Drop-out voltge	10% of nominal
Duty	Continuous
Timing:	
Operate Time (max)	60ms
Release Time (max)	30ms
Dielectric:	
Across Open Contacts	1500 VRMS
Between Mutally Insulated Points	1500 VRMS
Insulation Resistance	1000 megohms @ 500VAC
Temperature:	
Operating	-45 to 65°C (-49 to 149°F)
Storage	-40 to 105°C (-40 to 221°F)
Life Expectancy:	
Electrical (full load operations)	100,000
Mechanical (no load operations)	500,000
Miscellaneous:	
Mounting Position	Vertical
Enclosure	Plastic Contact Cover
Weight	42.0oz (1.2k grams)

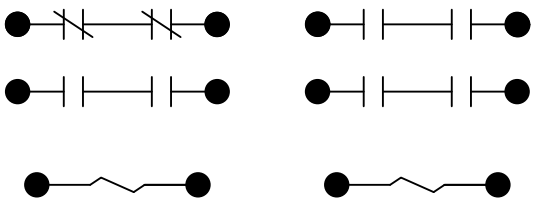
103HXX

103 Wire Diagram
(Top View)



HXX
(SPST N.O. Double Make)

XXH
(SPST N.C. - Double Break)



HXH
(DPST 1N.O. - Double Break
1N.C. - Double Make)

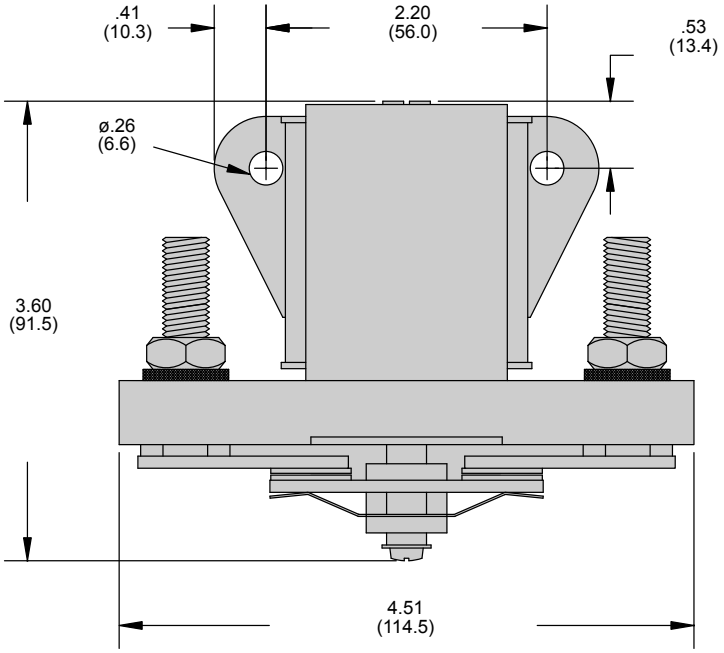
JXX
(DPST N.O. - Double Make)

Power Relays

30 - 300 Amp

Outline Dimensions

Dimensions shown in inches & (millimeters)



Coil Specification

DC Coil

Nominal voltage	Resistance ohms ±10%
12	17
28	75
48	290

Ordering Code **103** **HXX** **-28VDC**

Series
103

Contact Arrangement
HXX (1 pole Double Make - N.O.)
HXH (DPST – 1 N.O. – double make
1 N.C. – double break)
JXX (2 pole Double Make - N.O.)
XXH (1 pole - Double Break - 1 N.C.)

Coil Voltage
AC: 120, 240 (Add VAC)
DC: 12, 28, 115-125 (Add VDC)

103JXX