

## Magnecraft

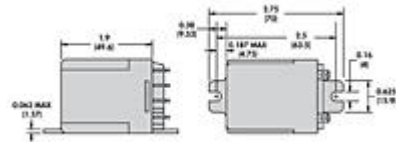
### Item # 303XBC1-120A, 303 Magnetic Latching Power Relay/DPDT, 30 Amp Rating

#### 303 Magnetic Latching Power Relay/DPDT, 30 Amp Rating

The Class 303 relay has been designed for 30 Amp loads by using 0.250" quick connect terminals and other proven materials used by Magnecraft power relays.

Contact gaps are 2 millimeters wide to meet most standards for creepage and clearance. Its magnetic latching mechanism keeps the contact in the last set position until commanded to change by means of a separate redirected signal. The optional magnetic blowout allows for high voltage DC switching applications.

This item is normally stocked



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#### SPECIFICATIONS

Contact Configuration	DPDT
Control	AC
Nominal Voltage	120 VAC 50/60 Hz
Cover Options	Side flange
Coil Resistance	3800 Ohm
Control Type	Single Coil

#### CONTACT CHARACTERISTICS

Contact Materials	Silver Alloy
Thermal (Carrying) Current	30 A
Maximum Switching Voltage	600 V
Switching Current at Voltage (AC, General Purpose)	30 A at 300 V 50 / 60 Hz
Switching Current at Voltage (AC, Resistive)	30 A at 28 V
Current Rating with Magnetic Blowout- Code 69	10 A at 150 VDC (SPDT) 5 A at 150 VDC (DPDT, DPST)
Minimum Switching Requirement	100 mA at 5 VDC (0.5W)

## COIL CHARACTERISTICS

Coil Voltage	120 VAC 50/60 Hz
Operating Range - % of Nominal (AC)	85 to 110 %
Operating Range - % of Nominal (DC)	80 to 110 %
Average Consumption (AC)	2 VA
Average Consumption (DC)	1.64 W
Drop-out Voltage Threshold (AC)	15 %
Drop-out Voltage Vhreshold (DC)	10 %

## PERFORMANCE CHARACTERISTICS

Electrical Life (UL508), Operations at Rated Current (Resistive)	6000
Mechanical Life, Unpowered	100000
Operating Time (Response Time)	30 ms
Rated Insulation Voltage - Between Coil and Contact (AC)	4000 V(rms)
Dielectric Strength - Between Poles (AC)	1000 V(rms)
Dielectric Strength - Between Contacts (AC)	2200 V(rms)

## ENVIRONMENT

Product Certifications, Standard Version	UL
Ambient Air Temperature around the Device - Storage	-40 to +85 °C
Ambient Air Temperature around the Device - Operation	-40 to +55 °C
Vibration Resistance - Operational	3 g-n at 10-55 Hz
Shock Resistance	10 g-n
Degree of Protection	IP 40