

Description

Magnecraft Power Relays

300
DPDT, 30 A



Side Flange Cover



Top DIN Mount Cover

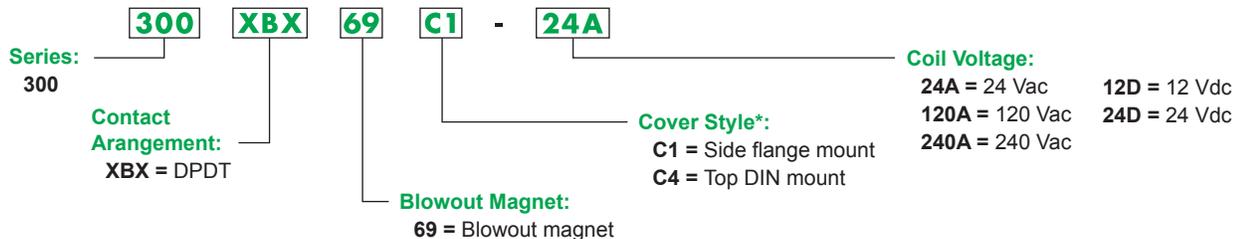
Description

The 300 series power relays offer 2 mm (0.08 in) contact gaps and 8 mm (0.3 in) creepage and clearance which meets international requirements. Options include a variety of covers, mounting solutions, and a blowout magnet for high voltage DC switching.

Feature	Benefit
High-power contacts	High contact ratings (up to 30 A, 2 hp) and long electrical endurance; suitable for high-power switching applications
Improved dielectric strength	4000 V(rms) between mutually isolated conductive elements and frame
Increased spacing between stationary contact terminals	Enables fully booted Quick Connect terminals
Blowout magnet option	Ideal for DC voltage switching

Rated Contact Current	Contact Configuration	Coil Voltage	Coil Resistance (Ω)	Cover Style	Standard Part Number
30 A	DPDT	24 Vac	54	Side flange mount	300XBXC1-24A
		120 Vac	1270	Side flange mount	300XBXC1-120A
				Top DIN mount	300XBXC4-120A
		240 Vac	5400	Side flange mount	300XBXC1-240A
		12 Vdc	75	Side flange mount	300XBXC1-12D
				Side flange mount	300XBXC1-24D
		24 Vdc	300	Top DIN mount	300XBXC4-24D
				Top DIN mount (with magnetic blowout)	300XB69C4-24D

Part Number Explanation



*Additional cover styles available. Contact Customer Service at 847-441-2540.

Specifications (UL 508)

Part Number	300XB¹
Contact Characteristics	
Contact Configuration	DPDT
Contact Material	Silver Alloy
Thermal (Carrying) Current	30 A
Maximum Switching Voltage	600 V
Current Ratings at Voltage ¹	Resistive: 30 A at 300 Vac 50/60 Hz; 30 A at 28 Vdc; 15 A at 600 Vac 50/60 Hz Motor: 1 hp at 120 Vac 50/60 Hz; 2 hp at 208–600 Vac 50/60 Hz; Pilot Duty: 5.5 A at 120 Vac 50/60 Hz; 1.2 A at 600 Vac 50/60 Hz
Minimum Switching Requirement	500 mA at 12 Vac/Vdc
Coil Characteristics	
Coil Voltage Range ²	24–240 Vac 50/60 Hz; 12–110 Vdc ²
Operating Range (% of Nominal)	85%–110% (AC); 80%–110% (DC)
Average Consumption	3.4 VA (AC); 1.5 W (DC)
Drop-out voltage threshold	30% (AC); 10% (DC)
General Characteristics	
Electrical Life at Rated Load	6,000 operations
Mechanical Life at No Load (Unpowered)	5,000,000 operations
Operate Time at Nominal Coil Voltage	20 ms
Dielectric Strength	Between coil and contact: 2500 Vac; Between poles: 4000 Vac; Between contacts: 2500 Vac;
Operating Temperature Range	-40 – +55 °C (-40 – +131 °F)
Storage Temperature Range	-40 – +85 °C (-40 – +185 °F)
Weight (Average)	85 g (3 oz)
Product Certifications	UL (E43641), CSA (168986)

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

¹ For ratings with blowout magnet, please refer to Table 1 below.

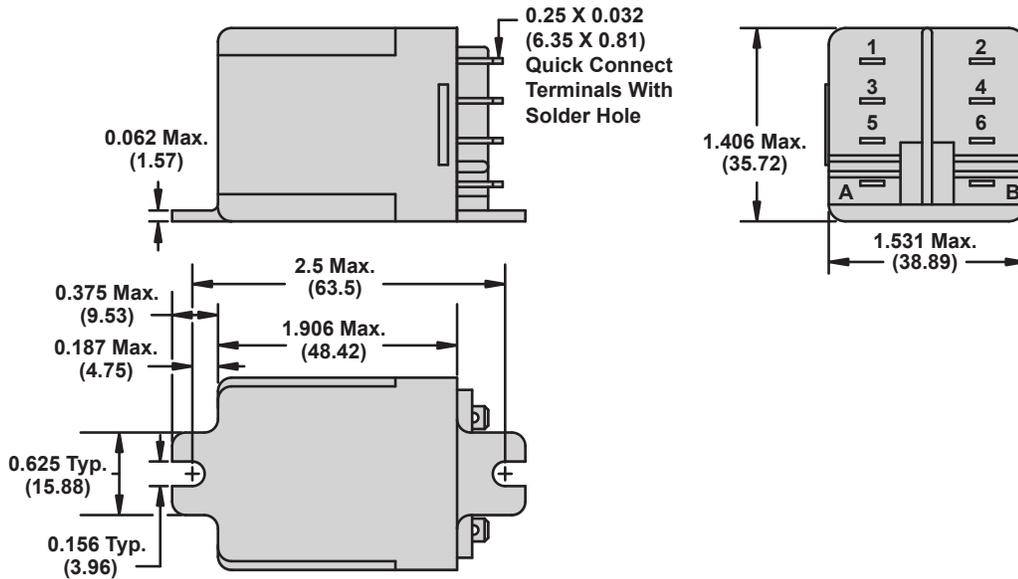
² For available standard coil voltages, please refer to the standard part number table on page 20.

Table 1: Additional DC Ratings with Blowout Magnet

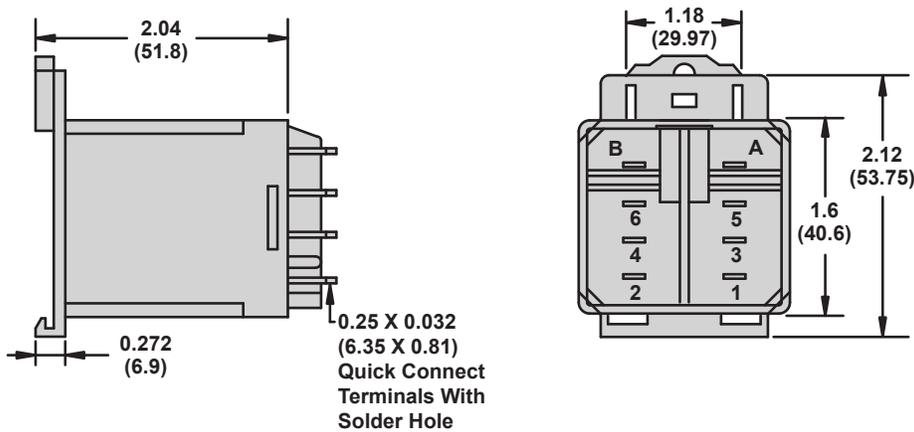
Load Voltage	Contact Rating
150 Vdc	3 A

Dimensions — inches (millimeters)

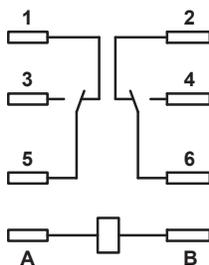
Side Flange Mount Cover



TOP DIN MOUNT COVER



Wiring Diagram



DPDT