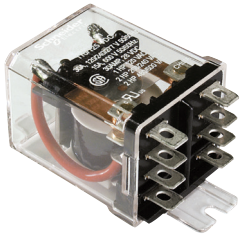


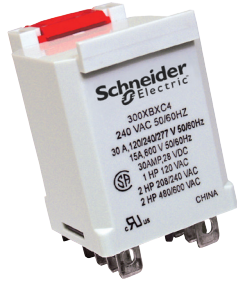
Description

Legacy Power Relays

300
DPDT, 30 A



Side Flange Cover



Top DIN Mount Cover

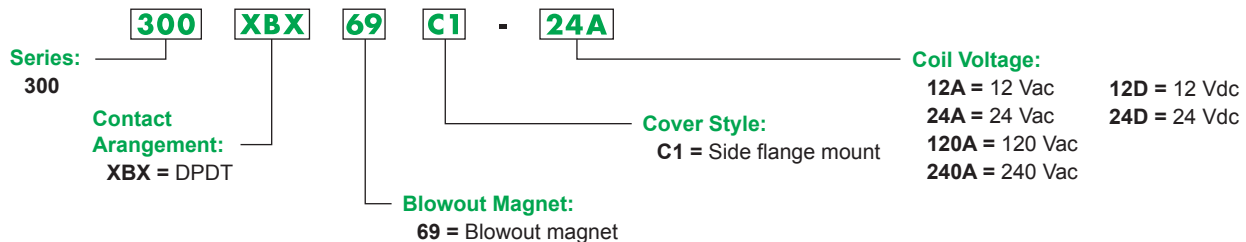
Description

The 300 series power relays offer high-amperage DPDT performance in a standard flange-mounting device. Combined with the optional blowout magnet feature, the 300 series is designed for high-voltage DC or AC 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
2 mm contact gap and 8 mm creepage and clearance	Meets international requirements
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	12 Vac	13.5	Side flange mount	300XBXC1-12A
		24 Vac	54	Side flange mount	300XBXC1-24A
		120 Vac	1270	Side flange mount	300XBXC1-120A
		240 Vac	5400	Side flange mount	300XBXC1-240A
		12 Vdc	57	Side flange mount	300XBXC1-12D
		24 Vdc	300	Side flange mount	300XBXC1-24D
		24 Vdc	300	Side flange mount (with magnetic blowout)	300XB69C1-24D

Part Number Explanation



Specifications (UL 508)

Part Number	300XB ¹
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, NO 100,000 cycles, NC 6,000 cycles; 15 A at 600 Vac 50/60 Hz, 100,000 cycles Motor: 1 hp at 120 Vac 50/60 Hz, 6,000 cycles; 2 hp at 208–600 Vac 50/60 Hz ² , 6,000 cycles Pilot Duty: 5.5 A at 120 Vac 50/60 Hz, 6,000 cycles; 1.2 A at 600 Vac 50/60 Hz, 6,000 cycles
Minimum Switching Requirement	500 mA at 5 Vdc
Coil Characteristics	
Coil Voltage Range ³	12–240 Vac 50/60 Hz; 12–24 Vdc
Operating Range (% of Nominal)	85%–110% (AC); 80%–110% (DC)
Average Consumption	3.4 VA (AC at 60 Hz); 2.3 W (DC)
Drop-out Voltage Threshold	15% (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: 4000 Vac; Between poles: 2500 Vac; Between contacts: 2500 Vac
Operating Temperature Range	–40 to +55 °C (–40 to +131 °F)
Storage Temperature Range	–40 to +85 °C (–40 to +185 °F)
Weight (Average)	without blowout magnet: 85 g (3.0 oz) with blowout magnet: 95 g (3.4 oz)
Agency Certifications	UL (E164862), CSA (225619), RoHS

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

¹ For additional ratings with blowout magnet, refer to "Table 3: Additional DC Ratings with Blowout Magnet" below.

² Break all lines for 2 hp / 480–600 Vac, 50/60 Hz.

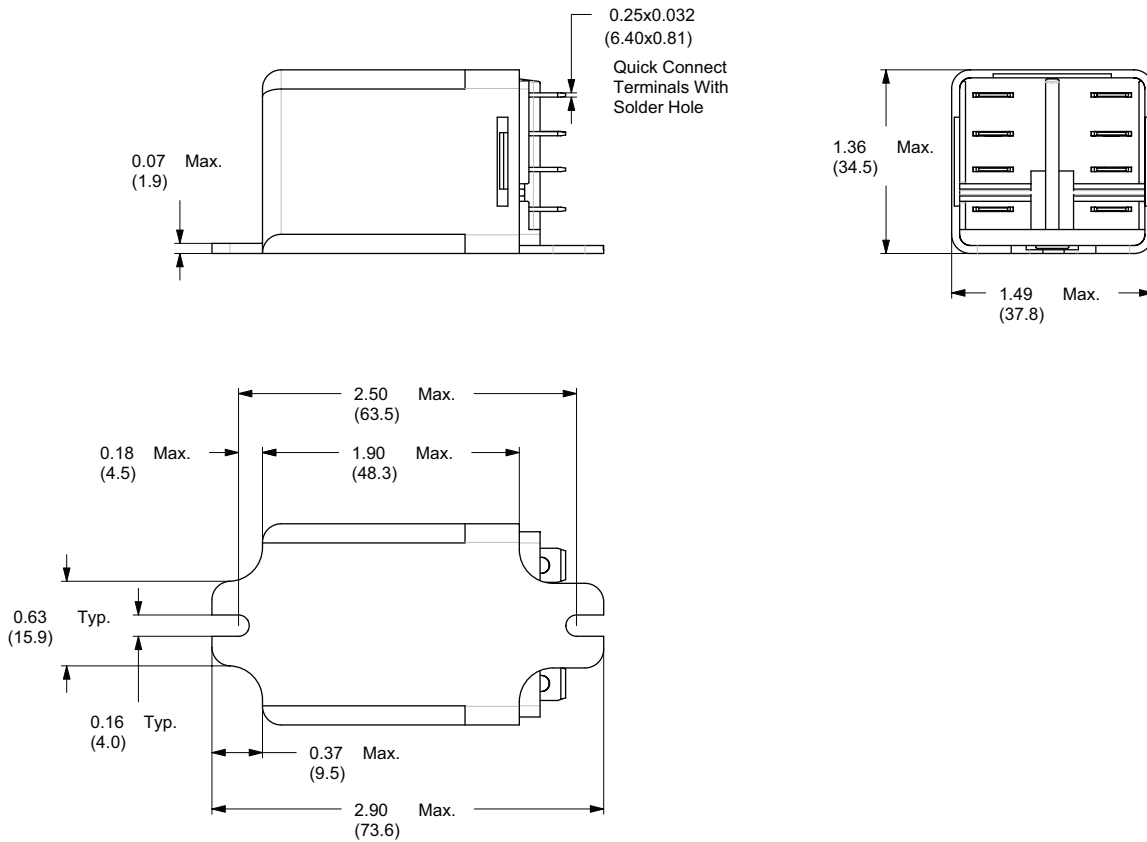
³ For available standard coil voltages, refer to the standard part number table on page 20.

Table 3: Additional DC Ratings with Blowout Magnet

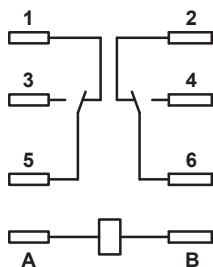
Load Voltage	Contact Rating
150 Vdc	5 A

Dimensions — inches (millimeters)

Side Flange Mount Cover



Wiring Diagram



DPDT