

D5 Series Relay



D5PR/D5PF Series

Product Description

The D5 Series is rated at 16A and is available in full-featured and plain cover styles.

Features

D5PR

- Industrial rated 300V, 16A relay in two-pole and three-pole configurations
- Compact design can be panel or DIN rail mounted

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Standards and Certifications



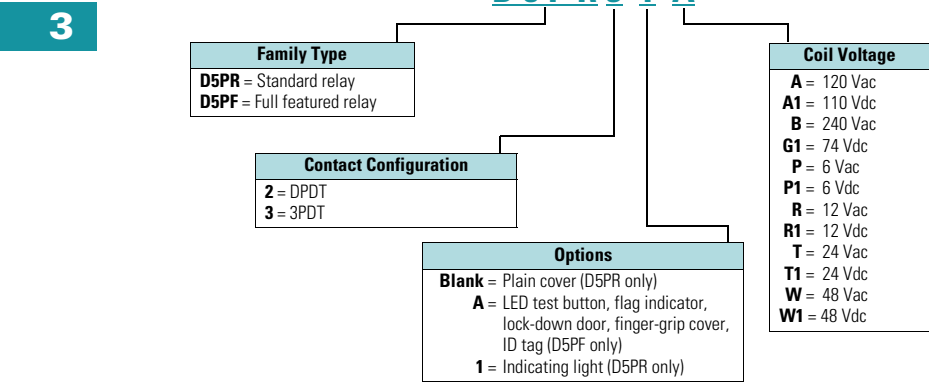
When used with accompanying Eaton screw terminal socket (D5PF only)

D5PF

- Flag indicator shows relay status in manual or powered condition
- LED status lamp shows coil ON or OFF status—ideal for use in low light applications
- Push-to-Test button allows for manual operation of relay without the need for coil power
- Lock-down door holds pushbutton and contacts in the operate position when activated
- Finger-grip cover allows operator to remove relays from sockets easily
- ID tag/write label to identify relays in multiple-relay circuits
- Bipolar LED allows for reverse polarity applications

Catalog Number Selection

D5 Series



Product Selection

D5 Relay/Socket Quick Reference

Relay Type	Socket	Clip	Module Type	ID Tag	Jumper
D5PR2, D5PF2, D5PR3, D5PF3	D5PAL	PQC-1351	A	PWF-D3D5	D3PJ1
	D5PA2	PQC-1351	None	—	—
	D5PA3L	PQC-1351	None	—	—
	D5PA3S	PQC-1351	None	—	—

D5 Series Relay



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D5 Series, continued

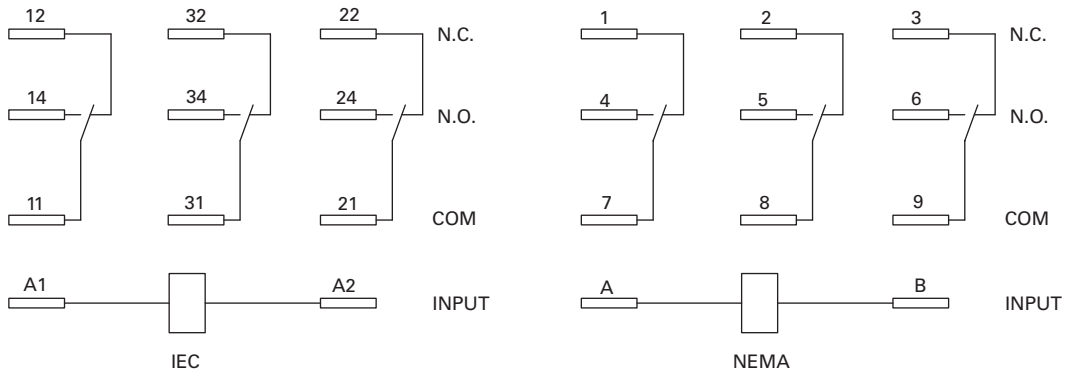
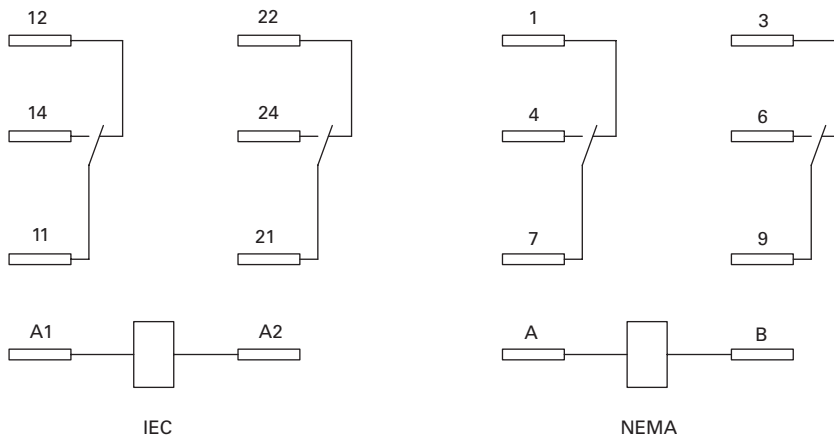
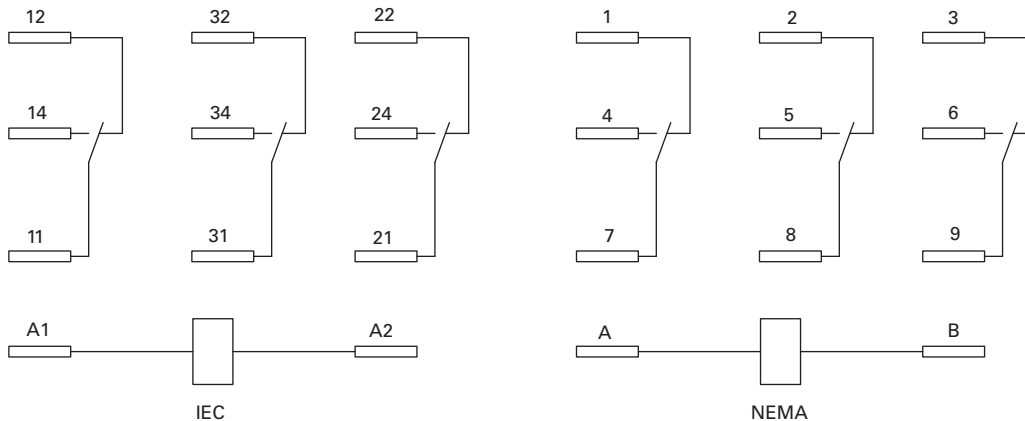
Coil Voltage	Contact Configuration	Coil Resistance (Ohms)	Catalog Number
Plain Cover			
120 Vac	DPDT	1700	D5PR2A
110/125 Vdc	DPDT	10,000	D5PR2A1
220/240 Vac	DPDT	7200	D5PR2B
74 Vdc	DPDT	4800	D5PR2G1
6 Vac	DPDT	4.2	D5PR2P
6 Vdc	DPDT	32	D5PR2P1
12 Vac	DPDT	18	D5PR2R
12 Vdc	DPDT	120	D5PR2R1
24 Vac	DPDT	72	D5PR2T
24 Vdc	DPDT	470	D5PR2T1
48 Vac	DPDT	290	D5PR2W
48 Vdc	DPDT	1800	D5PR2W1
120 Vac	3PDT	1700	D5PR3A
110/125 Vdc	3PDT	10,000	D5PR3A1
220/240 Vac	3PDT	7200	D5PR3B
74 Vdc	3PDT	4800	D5PR3G1
6 Vac	3PDT	4.2	D5PR3P
6 Vdc	3PDT	32	D5PR3P1
12 Vac	3PDT	18	D5PR3R
12 Vdc	3PDT	120	D5PR3R1
24 Vac	3PDT	72	D5PR3T
24 Vdc	3PDT	470	D5PR3T1
48 Vac	3PDT	1800	D5PR3W
48 Vdc	3PDT	1800	D5PR3W1

Technical Data and Specifications

D5 Series

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Description	D5PR	D5PF
Contact Characteristics		
Contact rating	16A	16A
Terminal style	Plug-in	Plug-in
Contact materials	Silver alloy	Silver alloy
Maximum switching voltage	300V	300V
Switching current at voltage—resistive	16A at 277 Vac 50/60 Hz	16A at 277 Vac 50/60 Hz
	16A at 120 Vac 50/60 Hz	16A at 120 Vac 50/60 Hz
	16A at 28 Vdc	16A at 28 Vdc
Switching current at voltage	1/2 hp at 240 Vac	1/2 hp at 240 Vac
	1/3 hp at 120 Vac	1/3 hp at 120 Vac
Pilot duty	B300	B300
Minimum switching requirement	100 mA at 5 Vdc (0.5W)	100 mA at 5 Vdc (0.5W)
Coil Characteristics		
Operating range		
% of nominal (AC)	85 to 110%	85 to 110%
% of nominal (DC)	80 to 110%	80 to 110%
Average consumption	3 VA	3 VA
	1.4W	1.4W
Drop-out voltage threshold	10%/15% (AC)	10%/15% (AC)
	10% (DC)	10% (DC)
Performance		
Electrical life (UL 508) operations at rated current	100,000 operations	100,000 operations
Mechanical life operations unpowered	5,000,000 operations	5,000,000 operations
Response time	20 ms	20 ms
Dielectric strength		
Between coil and contact Vac (rms)	1500V (rms)	1500V (rms)
Between poles Vac (rms)	1500V (rms)	1500V (rms)
Environment		
Ambient air temperature around the device		
Storage	–40° to 185°F (–40° to 85°C)	–40° to 185°F (–40° to 85°C)
Operation	–40° to 131°F (–40° to 55°C)	–40° to 131°F (–40° to 55°C)
Vibration resistance—operational	3 g-n at 10–55 Hz	3 g-n at 10–55 Hz
Shock resistance	10 g-n	10 g-n
Degree of protection	IP40	IP40
Features		
Cover options	Flange/plain cover with LED	Full featured
Features	Mechanical flag indicator (LED optional)	Bipolar LED/ Mechanical flag indicator/ Locking pushbutton/ Removable ID tag
Product certifications	RoHS/UL/CE/CSA	RoHS/UL/CE/CSA

Wiring Diagrams**D5PA3L and D5PA3S****D5PR2/D5PF2 DPDT****D5PR3/D5PF3 3PDT**

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Control Relays and Timers

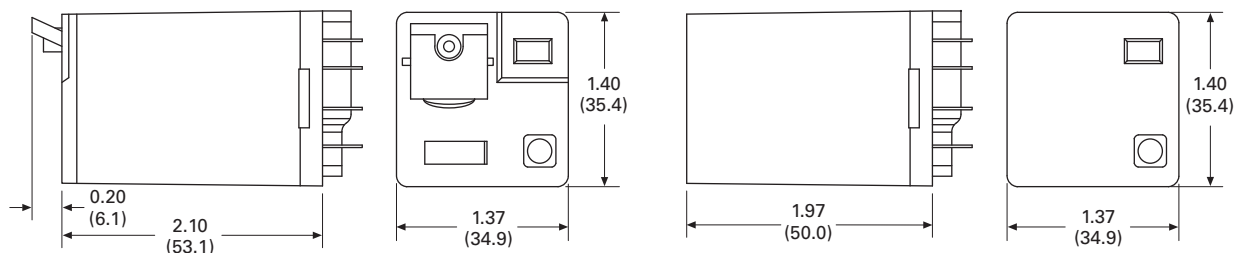
General Purpose Plug-In Relays

Dimensions

Approximate Dimensions in Inches (mm)

D5PR and D5PF

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D5PA2

