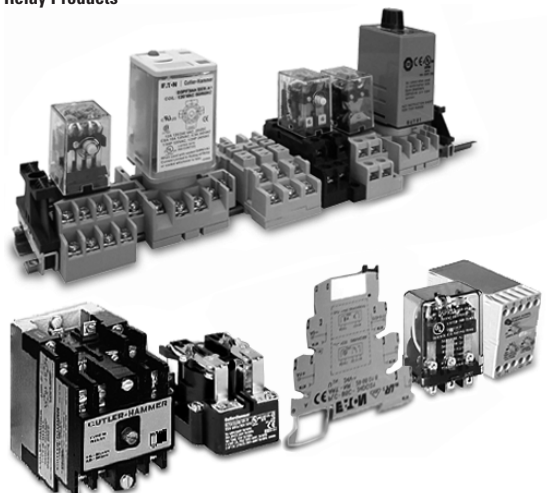


Relay Products



Contents

Description

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Control Relays and Timers Comparison

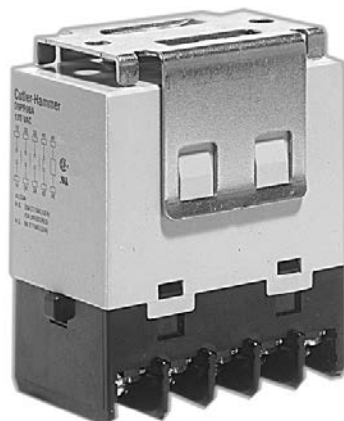
Selection Guide by Catalogue Number Prefix

Relays	Type	Mounting	Contacts	Maximum Amperage (AC)		UL	CSA	CE	Page Number
9575H3	General purpose	Panel mount	Fixed	40A	—	X	X	X	T40-117
AR/ARD	Machine tool	Panel mount	Convertible	10A	—	X	X	—	T40-152
BF/BFD	Machine tool	Panel mount	Fixed	10A	X	—	X	—	T40-146
D2PF	Full featured plug-in	DIN rail/panel mount	Fixed	10A	X	—	X	X	T40-53
D2PR	Standard plug-in	DIN rail/panel mount/flange	Fixed	10A	X	—	X	X	T40-53
D3PF	Full featured plug-in	DIN rail/panel mount	Fixed	16A	X	—	X	X	T40-63
D3PR	Standard plug-in	DIN rail/panel mount	Fixed	16A	X	—	X	X	T40-63
D4PR	Standard plug-in	DIN rail/panel mount	Fixed	10A	X	—	X	X	T40-72
D5PF	Full featured plug-in	DIN rail/panel mount	Fixed	16A	X	—	X	X	T40-77
D5PR	Standard plug-in	DIN rail/panel mount/PC board	Fixed	16A	X	—	X	X	T40-77
D7PF	Full featured plug-in	DIN rail/panel mount	Fixed	20A	X	—	X	X	T40-87
D7PR	Standard plug-in	DIN rail/panel mount/flange	Fixed	20A	X	—	X	X	T40-88
D8PR	Standard plug-in	DIN rail/panel mount/flange	Fixed	30A	X	—	X	X	T40-101
D9PR	Standard plug-in	Panel mounting	Fixed	25A	X	—	X	—	T40-107
D15	Machine tool	DIN rail/panel mount	Fixed	10A	—	X	X	X	T40-141
D26	Machine tool	Panel or channel mount	Convertible	10A	—	X	X	—	T40-157
D85	Alternating relays	DIN rail/panel mount	Fixed	10A	X	X	—	X	T40-188
D1PF	Full featured plug-in	DIN rail/panel mount	Fixed	20A	X	—	X	X	T40-47
D1PR	Standard plug-in	DIN rail/panel mount	Fixed	20A	X	—	X	X	T40-47
EASY	Intelligent relay	DIN rail	Fixed	8A	X	—	X	X	T40-21
TMR5	Timing relay (non-programmable)	DIN rail/panel mount	Fixed	10A	X	X	—	X	T40-178
TMR6	Timing relay (non-programmable)	DIN rail/panel mount	Fixed	10A	X	X	—	X	T40-182
TR	Timing relay (programmable)	DIN rail/panel mount	Fixed	10A	—	X	X	—	T40-175
Universal TR	Timing relay (programmable)	DIN rail	Fixed	8A	—	X	X	X	T40-171
XR	Terminal block relay	DIN rail	Fixed	6A, 10A	X	—	—	X	T40-5

40.4 Control Relays and Timers

General Purpose Plug-In Relays

D9 Series Relay



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Contents

Description	Page
D1PR/D1PF Series	T40-46
D2PR/D2PF Series	T40-51
D3PR/D3PF Series	T40-61
D4 Series	T40-71
D5PR/D5PF Series	T40-75
D7PR/D7PF Series	T40-85
D8 Series	T40-100
D9 Series	
Product Selection	T40-107
Technical Data and Specifications	T40-107
Dimensions	T40-108
Accessories	T40-110

D9 Series

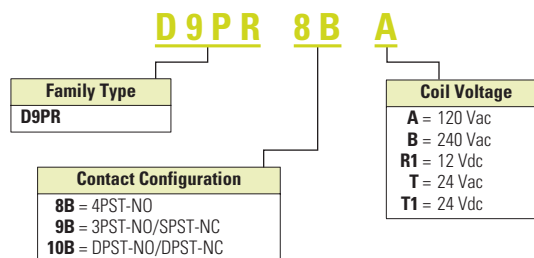
Product Description

The four-pole D9 Series is ideal for three-phase motor applications. Various contact configurations are available.

Features

- Ideal for three-phase motor control applications
- No contact chattering for momentary voltage drops up to 50% of rated voltage
- Push-to-Test button is a standard feature to check contact operation
- Mounting bracket is supplied with relay

Catalogue Number Selection



Standards and Certifications



File # E1491



File # LR701520

Product Selection

D9 Series

	Catalogue Number
4PST-NO Power Relay	
Coil voltage	
24 Vac	D9PR8BT
120 Vac	D9PR8BA
240 Vac	D9PR8BB
24 Vdc	D9PR8BT1
3PST-NO/SPST-NC Power Relay	
120 Vac	D9PR9BA

	Catalogue Number
DPST-NO/DPST-NC Power Relay	
Coil voltage	
24 Vac	D9PR10BT
120 Vac	D9PR10BA
24 Vac	D9PR10BT1

Technical Data and Specifications

Coil Resistance

Coil Voltage	Ohms	mA
24 Vac	—	75
120 Vac	—	21.6
240 Vac	—	10.8

Coil Voltage	Ohms	mA
12 Vdc	72	167
24 Vdc	288	83
110 Vdc	6050	18

D9PR Specifications

Description	NO Contacts Resistive Load (p.f. = 1)	NC Contacts Resistive Load (p.f. = 1)
Rated load	220 Vac 25A 30 Vdc 25A	220 Vac 8A 30 Vdc 8A
Carry current	25A	8A
Max. operating voltage	250 Vac/125 Vdc	250 Vac/125 Vdc
Max. switching current	25A	8A
Max. switching capacity	5500 VA 750W	1760 VA 240 W
Min. permissible load	100 mA at 24 Vdc	100 mA at 24 Vdc
Mechanical life (min.)	1,000,000 operations	1,000,000 operations
Electrical life at all contact ratings (min.)	100,000 operations	100,000 operations
Maximum hp ratings	1-1/2 hp (120 Vac) 3 hp (240/265/277 Vac) Three-phase 3 hp (240/265/277 Vac) 30,000 cycles Three-phase 5 hp (240/265/277 Vac) 30,000 cycles	1-1/2 hp (120 Vac) 3 hp (240/265/277 Vac) Three-phase 3 hp (240/265/277 Vac) 30,000 cycles Three-phase 5 hp (240/265/277 Vac) 30,000 cycles

40.4 Control Relays and Timers

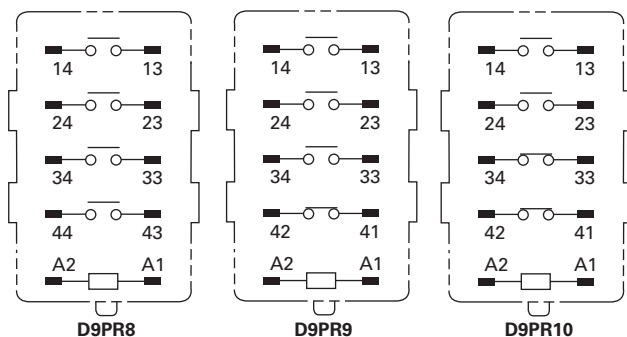
General Purpose Plug-In Relays

Coil Data

Coil Voltage	Must Operate	Must Release	Maximum Voltage
24 Vdc/Vac, 12 Vdc, 110 Vdc	75% maximum	10% minimum	110%
120 Vac	75V	18V	132V
240 Vac	150V	36V	264V

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Terminal Arrangements

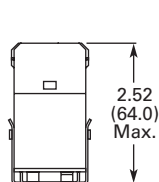
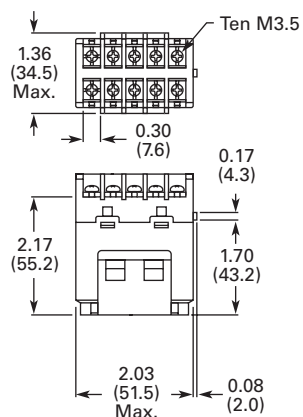


Dimensions

Approximate Dimensions in Inches (mm)

D9PR

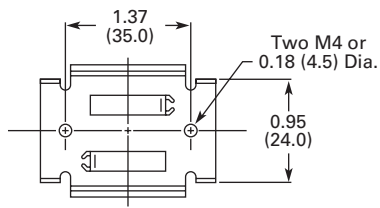
Screw Terminal Brackets



Mounting Holes (Bottom View)

Approximate Dimensions in Inches (mm)

Mounting Bracket



Mounting Holes

