Logic Devices

Relays



easy Programmable Relay



XC152 PLCs



XV HMI-PLCs



Preset Counters



Hour Meters



Encoders



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Product Overview

Relays Selection Guide







escription XR Series Terminal Block Relays		D1 Series	D2 Series				
	Page V9-T3-8			Page V9-T3-9	Page V9-T3-11		
Approvals	c UL us	CE		ROHS CAN'US CE SE	ROHS called CE		
Features	Pluggable relay allows easy field replacement, LED indicator standard, functional plug-in bridges available Only 6.2 mm wide for SP and 14 mm wide for DP		nctional plug-in	Polycarbonate cover Indicator lamp and pushbutton available Panel and DIN mounting	Polycarbonate cover Indicator lamp and pushbutton available Panel, DIN and flange mounting Latching		
	DIN rail mou	ntıng					
Contact Data Configuration	SPDT	DPDT	OctoCoupler	SPDT	DPDT DPDT Latching 4PDT		
Maximum allowable load	6A or 10A	6A	2A	20A	10A 10A 10A		
Material	— UA UI TUA	UA	ZA	Silver alloy	Silver alloy		
Dielectric strength between poles	_			1500V	1500V		
Coil Data							
AC	24 Vac or 12	0 Vac		6–240 Vac	6–240 Vac		
DC	12, 24, 110 V	/dc		6–110 Vdc	6–110 Vdc		
Power							
VA (Vac)	1.5			0.9 VA	1.2 VA		
Watts (Vdc)	0.12			0.7 Watts	0.9 Watts		
General Data							
Ambient temperature							
Storage	_			-40° to 185°F (-40° to 85°C)	-40° to 185°F (-40° to 85°C)		
Operational	-4° to 140°F (-20° to 60°C)			-40° to 131°F (-40° to 55°C)	-40° to 131°F (-40° to 55°C)		
Response time	Available upon request			20 milliseconds	20 milliseconds		
Life	·			·			
Mechanical operations	20 million			10 million	10 million		
Electrical operations	_			100,000	200,000		







Description	D3 Series D4 Series		D5 Series					
	Page V9-T3-13			Page V9-T3-15		Page V9-T3-16		
Approvals	ROHS COMPLIANT	c #U °us (€ ∰	ROHS CHU	Sus C € ®	ROHS C	W us (€ 	
Features	Polycarbonate cover Indicator lamp and pushbutton available Panel and DIN mounting 8- or 11-pin octal plug-in Latching (D3PR version)		Polycarbonate cover Indicator lamp availa Panel and DIN moun Socket has built-in h	ting	Polycarbonate cover Indicator lamp and pushbutton available Panel, DIN and PC board mounting			
Contact Data								
Configuration		DPDT	3PDT	SPDT	DPDT	DPDT	3PDT	
Maximum allowable load	16A	16A	16A	10A at 250 Vac	5A at 240 Vac	16A	16A	
Material	Silver alloy			AgCdO		Silver alloy		
Dielectric strength between poles	1500V		5000V		1500V			
Coil Data								
AC	6–240 Vac			6-240 Vac		6-240 Vac		
DC	6–110 Vdc		6–110 Vdc		6-110 Vdc			
Power								
VA (Vac)	3 VA,1.4 Wa	atts (D3PRand DPF)	0.9 VA		3 VA		
Watts (Vdc)	2 VA 1.64 Watts (D3PR5 latching)		0.5 Watts		1.4 Watts			
General Data								
Ambient temperature								
Storage	-40° to 185°F (-40° to 85°C)			-40° to 158°F (-40° to 70°C)		-40° to 185°F (-40° to 85°C)		
Operational	-40° to 131°F (-40° to 55°C)		-40° to 158°F (-40° to 70°C)		-40° to 131°F (-40° to 55°C)			
Response time	20 milliseconds		15 milliseconds		206 millisecon	ds		
Life Mechanical operations	5 million (D	3PR and D3PF)		10 million		5 million		
Woonamed operations		D3PR5 latching)		10 111111011		o minion		
Electrical operations	100,000			100,000		100,000		







Description	D7 Series				D8 Series		D9 Series	
	Page V9-T3-18				Page V9-T3-20		Page V9-T3-22	
Approvals	ROHS COMPLIANT	c #U "us (€		® > > UR		D UR	
Features	Polycarbonate cover Indicator lamp and pushbutton available Panel, DIN and flange mounting			Dust cover Panel, DIN and flange mounting Quick-connect and screw terminals		Dust cover Pushbutton availab Panel mounting Screw terminals	Pushbutton available Panel mounting	
Contact Data								
Configuration							4PST	
	SPDT	DPDP	3PDT	4PDT	SPST-NO	DPST-NO	N0	NC
Maximum allowable load	20A	15A	15A	15A	30A at 220 Vac	25A at 220 Vac	25A at 220 Vac	8A at 220 Vac
Material	Silver alloy				AgCdO		AgCdO	
Dielectric strength between poles	1500V	1500V	2500V	2500V	4000V		4000V	
Coil Data								
AC	6-240 Vac				6–240 Vac		24-240 Vac	
DC	6-110 Vdc				12-24 Vdc		12-110 Vdc	
Power								
VA (Vac)	1.2 VA	1.2 VA	1.5 VA	1.5 VA	2.5 VA		2.6 VA	
Watts (Vdc)	0.9 Watts	0.9 Watts	1.4 Watts	1.5 Watts	1.9 Watts		2.0 Watts	
General Data								
Ambient temperature								
Storage	-40° to 185°F (-40° to 85°C)				-4° to 185°F (-20° to 85°C)		-13° to 140°F (-25° to 60°C)	
Operational	-40° to 131°F (-40° to 55°C)				-4° to 131°F (-20° to 55°C)		-13° to 140°F (-25° to 60°C)	
Response time	20 milliseconds (30 milliseconds for latching)				30 milliseconds		50 milliseconds	
Life								
Mechanical operations	10 million				5 million		1 million	
Electrical operations	100,000	100,000	200,000	200,000	100,000		100,000	







		LIBILITY OF THE PARTY OF THE PA			
Description	Type AA Series	XTRE Series	D93 Series		
	Page V9-T3-23	Page V9-T3-24	Page V9-T3-26		
Approvals	⊕ (€ ⊕	AN CE ER ROHS	c UL us C € SP ROHS COMPLIANT		
Features	Available blowout magnets for high DC switching Available auxiliary switches Combo head screws for simple hook-up Riveted construction for long service life	Four-pole configurations IP20 finger and back-of-hand proof Positively driven contacts between the relay and auxiliary contact modules as well as within the auxiliary contact modules	All solid-state circuitry with no moving parts to wear Compact, panel mounting for flexible installation Isolated input and output terminals to protect the system from electrical noise Internal snubber circuitry to protect the SSR from transients		
Contact Data					
Configuration	DPDT	NO-NC variations in a four-pole relay plus four-pole auxiliary module	SPST-NO (Triac, Zero-cross or MOSFET)		
Maximum allowable load	40A	16A	10-75A		
Material	Silver cadmium oxide, gold flashed	_	_		
Dielectric strength between pole	1500V	6000 Vac	4000 Vac		
Coil Data					
AC	6-600 Vac	12-600 Vac	90–280 Vac		
DC	6–220 Vdc	24–240 Vdc	3–32 Vdc		
Power					
VA (Vac)	10 VA	3.3 VA	Available upon request		
Watts (Vdc)	4 Watts	3 Watts	Available upon request		
General Data					
Ambient temperature					
Storage	-40° to 185°F (-40° to 85°C)	-40° to 176° (-40° to 80°C)	-40° to 100°C		
Operational	–40° to 131°F (–40° to 55°C)	-13° to 140°F (-25° to 60°C)	−40° to 80°C		
Response time	35/50 milliseconds	12/31 milliseconds	Available upon request		
Life					
Mechanical operations		20 million			
Electrical operations	6000	100,000	<u> </u>		







200,000



Description	D96 Series	D99 Series	Universal TR Series
	Page V9-T3-27	Page V9-T3-28	Page V9-T3-29
Approvals	c Unus C € SP ROHS COMPLIANT	c UL us C € SP ROHS COMPLIANT	c UL us C € ROHS COMPLIANT
Features	All solid-state circuitry has no moving parts to wear Integral heat sink eliminates the need for added accessories and installation Flexible mounting allows DIN rail or panel mounting without additional hardware or tools Isolated input and output terminals protect the system from electrical noise Internal snubber circuitry protects the SSR from transients	All solid-state circuitry has no moving parts to wear Integral heat sink eliminates the need for added accessories and installation Flexible mounting allows DIN rail or panel mounting without additional hardware or tools Isolated input and output terminals protect the system from electrical noise Internal snubber circuitry protects the SSR from transients	Multiple user-selectable timing functions and timing ranges in a single unit reduce product variations and stock keeping units (SKUs) Universal input voltages from 12 or 24–240 Vac or Vdc eliminate the need to order and stock separate coil voltages Compact, DIN rail mountable case reduces panel size Advanced LED indication makes troubleshooting easy Staggered terminal locations allow access to lower-level terminals after wiring SPDT or DPDT contacts with 8A ratings
Contact Data			<u> </u>
Configuration	SPST-NO (DC switch, zero-cross or random)	SPST-NO (zero cross)	SPDT and DPDT
Maximum allowable load	8–15A	10-40A	8A
Material	-	-	-
Dielectric strength between pole	2500 (4000 on random) Vac	4000 Vac	_
Coil Data			
AC	90–280 Vac	90–280 Vac	24-240 Vac SPDT, 12-240 Vac DPDT
DC	3–32 Vdc (3.5–32 Vdc on DC switch)	3–32 Vdc	24-240 Vdc SPDT, 12-240 Vdc DPDT
Power VA (Vac) Watts (Vdc)	Available upon request	Available upon request	4 VA SPDT, 6 VA DPDT 1.5 Watts SPDT, 2W DPDT
General Data	Available upon request	Available upon request	1.5 Walls SPD1, ZW DPD1
Ambient temperature			
Storage	−40° to 100°C	−40° to 100°C	−25° to 70°C
Operational	-30° to 80°C	-30° to 80°C	-25° to 55°C
Response time	Available upon request	Available upon request	100 ms
Life			
Mechanical operations	_	_	20,000,000

For our complete product offering, see Volume 7—Logic Control, Operator Interface and Connectivity Solutions, CA08100008E and PG05400001E.

Electrical operations

Description

Features









Description	Tiving Series	Tivino Series	living Series
	Page V9-T3-30	Page V9-T3-31	Page V9-T3-32
Approvals	callus (IL) ROHS (E	caus (UL) ROHS (E	c AU ° us (VL)

Various configurations available with fixed or adjustable time delays

Single operating voltage for simple set-up Plugs in standard 8- or 11-pin octal sockets Provides OFF delay function without requiring input voltage during OFF time delay

Duplicates operation of pneumatic OFF delay timers

Each unit has eight timing ranges built in, covering 0.05 seconds to 30 minutes $\,$

Selecting a range is easy using a rotary switch (no math is required or DIP switches to set) Uses industry-standard 8-pin octal socket

10A DPDT output contacts

Multiple user-selectable timing functions and timing ranges in a single unit reduce product variations and stock keeping units (SKUs)

ROHS CE

Universal input voltages from 12–240 Vac/Vdc eliminate the need to order and stock separate coil voltages

Timing ranges up to 9990 hours

Dual LED indication makes troubleshooting easy Flexible design for backpanel, through-panel (45 mm x 45 mm cutout), or DIN rail mounting

SPDT or DPDT contacts with 12A ratings

Plastic dust cover keeps out contaminants and eliminates accidental set point changes

			Use with standard Eaton D3 sockets
Contact Data			
Configuration	DPDT	DPDT	SPDT and DPDT
Maximum allowable load	10A	10A	12A
Material	_	_	-
Dielectric strength between pole	2000V	2000V	_
Coil Data			
AC	12-240 Vac	24, 120 or 240 Vac	12–240 Vac
DC	12-240 Vdc	24, 120 or 240 Vdc	12-240 Vdc
Power			
VA (Vac)	2 VA	2 VA	2.5 VA
Watts (Vdc)	_	_	2 Watts
General Data			
Ambient temperature			
Storage	_	_	−40° to 85°C
Operational	-4° to 149°F (-20° to 65°C)	–18° to 150°F (–28° to 65°C)	−10° to 55°C
Response time	100 milliseconds	_	25 milliseconds
Life			
Mechanical operations	10 million	2,000,000	10 million
Electrical operations	100,000	100,000	100000



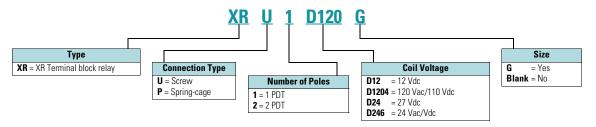
Features

- Pluggable relay allows for field replacement
- Functional plug-in bridges
- LED status indication
- Only 6.2 mm wide for single pole versions, 14 mm wide for double pole

Catalog Number Selection

Terminal Block Relays

Terminal Block Relays



Product Selection

Standard Terminal Block Relays

Contacts	Rated Current	Supply Voltage	Standard Pack	Catalog Number
1PDT Screw Conn	ection			
No	6A	12 Vdc	10	XRU1D12
No	6A	120 Vac/110 Vdc	10	XRU1D120U
Yes	6A	120 Vac/110 Vdc	10	XRU1D120UG
No	6A	24 Vdc	10	XRU1D24
No	6A	24 Vac/Vdc	10	XRU1D24U
Yes	6A	24 Vac/Vdc	10	XRU1D24UG
1PDT Spring-Cage	Connection			
No	6A	12 Vdc	10	XRP1D12
No	6A	120 Vac/110 Vdc	10	XRP1D120U
No	6A	24 Vdc	10	XRP1D24
No	6A	24 Vac/Vdc	10	XRP1D24U
DPDT Screw Conn	ection			
No	6A	12 Vdc	10	XRU2D12
No	6A	120 Vac/110 Vdc	10	XRU2D120U
No	6A	24 Vdc	10	XRU2D24
No	6A	24 Vac/Vdc	10	XRU2D24U

General Purpose Plug-In Relays—D1 Series

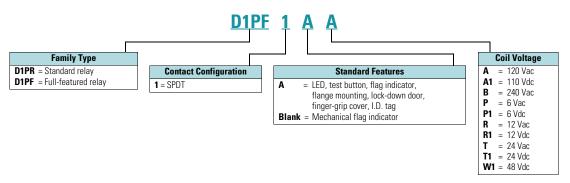


Features

- Compact relay capable of breaking relatively large load currents
- The contact operation can be easily checked by push-to-test button
- Panel and DIN rail mounting
- 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
- Bi-polar LED allows for reverse polarity applications

Catalog Number Selection General Purpose Plug-In Relays

D1 Series ①



Note

 $^{\scriptsize \textcircled{1}}$ For deciphering catalog numbers. Do not use for ordering as not all combinations are readily available.

Product Selection

General Purpose Plug-In Relays — D1PR/D1PF

Coil Voltage	Contact Configuration	Coil Resistance (Ohms)	Catalog Number
Full Featured			
6 Vac	SPDT	12.2	D1PF1AP
6 Vdc	SPDT	47	D1PF1AP1
12 Vac	SPDT	46	D1PF1AR
12 Vdc	SPDT	188	D1PF1AR1
24 Vac 50/60 Hz	SPDT	180	D1PF1AT
24 Vdc	SPDT	750	D1PF1AT1
48 Vac	SPDT	720	D1PF1AW
48 Vdc	SPDT	2,600	D1PF1AW1
110 Vdc	SPDT	13,800	D1PF1AA1
120 Vac 50/60 Hz	SPDT	4,430	D1PF1AA
240 Vac 50/60 Hz	SPDT	15,720	D1PF1AB

Coil Voltage	Contact Configuration	Coil Resistance (Ohms)	Catalog Number
Plain Cover			
6 Vac	SPDT	12.2	D1PR1P
6 Vac	SPDT	47	D1PR1P1
12 Vac	SPDT	46	D1PR1R
12 Vac	SPDT	188	D1PR1R1
24 Vac	SPDT	750	D1PR1T1
48 Vac	SPDT	720	D1PR1W
48 Vac	SPDT	2,600	D1PR1W1
110 Vdc	SPDT	13,800	D1PR1A1
120 Vac 50/60 Hz	SPDT	4,430	D1PR1A
240 Vac	SPDT	15,270	D1PR1B

Accessories

D1PR/D1PF Socket and Accessories

Туре	Standard Pack	Catalog Number
Socket	10	D1PAA
Flange mount adapter	25	PFC-D11
Metal spring clip	25	PMC-1781

General Purpose Plug-In Relays—D2 Series

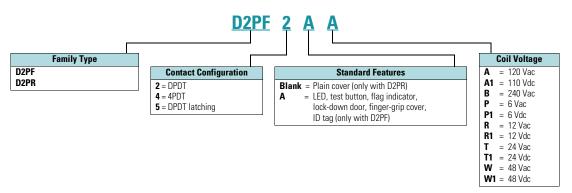


Features

- Ultra-high sensitivity relay with quick response
- Designed small, two-pole type break 5A load and four-pole type, 3A load
- High reliability, long life
- Panel, DIN rail and flange mounting
- Small size

Catalog Number Selection General Purpose Plug-In Relays

D2 Series ①



Product Selection

D2PF/D2PR Relay/Socket Quick Reference

Socket	Clip
D2PAL	PWC-D24
	PQC-1782
D2PA6	PQC-1342
D2PAP	PWC-D24
	PQC-1782
D2PA7	PWC-D24
	PQC-1782
D2PA6	PQC-1342
D2PA4	PYC-A1
	D2PA6 D2PA7 D2PA6

Note

① For deciphering catalog numbers.

Do not use for ordering as not all combinations are readily available.

General Purpose Plug-In Relays—D2PR/D2PF

Coil Voltage	Contact Configuration	Coil Resistance (Ohms)	Catalog Number
Full Featured S	Style		
6 Vac	DPDT	9.6	D2PF2AP
6 Vdc	DPDT	40	D2PF2AP1
12 Vac	DPDT	46	D2PF2AR
12 Vdc	DPDT	160	D2PF2AR1
24 Vac	DPDT	180	D2PF2AT
24 Vdc	DPDT	650	D2PF2AT1
48 Vdc	DPDT	2,600	D2PF2AW1
110/125 Vdc	DPDT	11,000	D2PF2AA1
120 Vac	DPDT	4,430	D2PF2AA
220/240 Vac	DPDT	15,720	D2PF2AB
12 Vac	4PDT	46	D2PF4AR
12 Vdc	4PDT	160	D2PF4AR1
24 Vac	4PDT	180	D2PF4AT
24 Vdc	4PDT	650	D2PF4AT1
48 Vdc	4PDT	2,600	D2PF4AW1
110/125 Vdc	4PDT	11,000	D2PF4AA1
120 Vac	4PDT	4,430	D2PF4AA
220/240 Vac	4PDT	15,720	D2PF4AB

Coil Voltage	Contact Configuration	Coil Resistance (Ohms)	Catalog Number
Plain Cover Sty	rle		
6 Vdc	DPDT	40	D2PR2P1
12 Vdc	DPDT	160	D2PR2R1
24 Vac	DPDT	180	D2PR2T
24 Vdc	DPDT	650	D2PR2T1
48 Vdc	DPDT	2,600	D2PR2W1
110/125 Vdc	DPDT	11,000	D2PR2A1
120 Vac	DPDT	4,430	D2PR2A
220/240 Vac	DPDT	15,720	D2PR2B
6 Vac	4PDT	9.6	D2PR4P
6 Vdc	4PDT	40	D2PR4P1
12 Vac	4PDT	46	D2PR4R
12 Vdc	4PDT	160	D2PR4R1
24 Vac	4PDT	180	D2PR4T
24 Vdc	4PDT	650	D2PR4T1
110/125 Vdc	4PDT	11,000	D2PR4A1
120 Vac	4PDT	4,430	D2PR4A
220/240 Vac	4PDT	15,720	D2PR4B

Accessories

D2PF/D2PR Sockets and Accessories

Туре	Standard Pack	Catalog Number
Socket	1	D2PAL ①
Socket	10	D2PA6
Socket	1	D2PAP ^①
Socket	10	D2PA7 ^①
Socket	5	D2PA4
Flange mount adapter	25	PFC-D2D72
Plastic ejector clip	10	PWC-D24
Metal spring clip	25	PQC-1782
Metal spring clip	25	PQC-1342
Hold-down spring	100	PYC-A1

Note

 $^{\scriptsize \textcircled{1}}$ Protection category (finger safe), EN 60529 IP20.

General Purpose Plug-In Relays—D3 Series

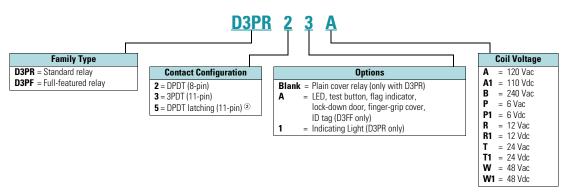


Features

- Compact relay capable of breaking relatively large load
- The contact operation can be easily checked by push-to-test button
- Panel and DIN rail mounting
- 8- or 11-pin octal plug-in

Catalog Number Selection General Purpose Plug-In Relays

D3 Series 1



Product Selection

D3 Relay/Socket Quick Reference

Socket	Clip
D3PA6	PQC-1332
D3PAL8	PQC-1351
D3PA2	PQC-1351
D3PA7	PQC-1332
D3PAL11	PQC-1351
D3PA3	PQC-1351
D3PA7	PQC-1351
D3PAL11	PQC-1351
D3PA3	PQC-1351
	D3PA6 D3PAL8 D3PA2 D3PA7 D3PA111 D3PA3 D3PA7 D3PA111

Notes

- $\ensuremath{\mathfrak{D}}$ For deciphering catalog numbers.
- Do not use for ordering as not all combinations are readily available.
- ② D3PR only.

General Purpose Plug-In Relays—D3PR/D2PF

Full Featured Style 120 Vac DPDT 1,700 240 Vac DPDT 7,200 12 Vdc DPDT 120	D3PF2AA D3PF2AB D3PF2AR1 D3PF2AT1 D3PF2AW1
240 Vac DPDT 7,200 12 Vdc DPDT 120	D3PF2AB D3PF2AR1 D3PF2AT1
12 Vdc DPDT 120	D3PF2AR1
	D3PF2AT1
24 Vdc DPDT 470	D3PF2AW1
48 Vdc DPDT 1,800	
120 Vac 3PDT 1,700	D3PF3AA
220/240 Vac 3PDT 7,200	D3PF3AB
6 Vdc 3PDT 32	D3PF3AP1
24 Vac 3PDT 72	D3PF3AT
24 Vdc 3PDT 470	D3PF3AT1
48 Vdc 3PDT 1,800	D3PF3AW1
Plain Cover Style	
120 Vac DPDT 1,700	D3PR2A
110/125 Vdc DPDT 10,000	D3PR2A1
220/240 Vac DPDT 7,200	D3PR2B
6 Vac DPDT 4.2	D3PR2P

Coil Voltage	Contact Configuration	Coil Resistance (Ohms)	Catalog Number
Plain Cover St	yle, continued		
6 Vdc	DPDT	32	D3PR2P1
12 Vac	DPDT	18	D3PR2R
12 Vdc	DPDT	120	D3PR2R1
24 Vac	DPDT	72	D3PR2T
24 Vdc	DPDT	470	D3PR2T1
48 Vac	DPDT	290	D3PR2W
48 Vdc	DPDT	1,800	D3PR2W1
120 Vac	3PDT	1,700	D3PR3A
110/125 Vdc	3PDT	10,000	D3PR3A1
220/240 Vac	3PDT	7,200	D3PR3B
12 Vac	3PDT	18	D3PR3R
12 Vdc	3PDT	120	D3PR3R1
24 Vac	3PDT	72	D3PR3T
24 Vdc	3PDT	470	D3PR3T1
48 Vdc	3PDT	1,800	D3PR3W1

Accessories

D2PF/D2PR Sockets and Accessories

Туре	Standard Pack	Catalog Number
Socket	1	D3PA6 ①
Socket	10	D3PAL8 ①
Socket	10	D3PA2
Socket	1	D3PA7 ①
Socket	10	D3PAL11 ①
Socket	10	D3PA3
Metal spring clip	25	PQC-1332
Metal spring clip	10	PQC-1351

Note

① Protection category (finger safe) EN 60529 IP20.

General Purpose Plug-In Relays—D4 Series



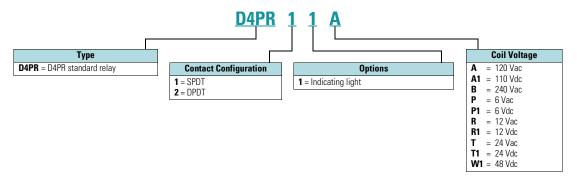
Features

- Slim-styled power relay
- Socket has built-in hold-down clip
- Panel or DIN rail mounting

Catalog Number Selection

General Purpose Plug-In Relays—D4 Series

D4 Series ①



Product Selection

D4 Relay/Socket Quick Reference

Relay Type	Socket	Hold Down Clip
D4PR1	D4PA1	2
D4PR2	D4PA2	2

D4 Series

Coil Voltage ³	Catalog Number	Coil Voltage ^③	Catalog Number
Standard SPDT		Standard DPDT	
24 Vac	D4PR1T	24 Vac	D4PR2T
120 Vac	D4PR1A	120 Vac	D4PR2A
24 Vdc	D4PR1T1	12 Vdc	D4PR2R1
SPDT with Indica	ating Light	24 Vdc	D4PR2T1
24 Vac	D4PR11T	DPDT with Indicating Light	
120 Vac	D4PR11A	120 Vac	D4PR21A
24 Vdc	D4PR11T1	24 Vdc	D4PR21T1

Coil Voltage ^③ Number	
DIN Rail Sockets	
Single-Pole	D4PA1
Two-Pole	D4PA2
Accessories	
DIN rail end stop	PFP-M

Catalan

Notes

- ① For deciphering catalog numbers. Do not use for ordering as not all combinations are readily available.
- ② Socket has built-in hold down spring.
- ③ Additional coil voltages available—consult sales office or customer support center.

General Purpose Plug-In Relays—D5 Series



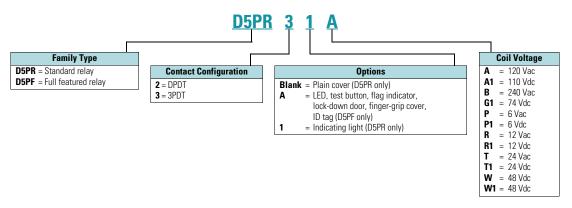
Features

- Industrial rated 300V, 15A relay in two-pole and three-pole configurations
- Compact design can be panel or DIN rail mounted

Catalog Number Selection

General Purpose Plug-In Relays—D5 Series

D5 Series ①



Product Selection

D5 Relay/Socket Quick Reference

Relay Type	Socket	Clip
D5PR2	D5PAL	PQC-1351
D5PF2	D5PA2	PQC-1351
D5PR3	D5PA3L	PQC-1351
D5PF3	D5PA3S	PQC-1351

Note

① For deciphering catalog numbers.

Do not use for ordering as not all combinations are readily available.

General Purpose Plug-In Relays - D5

Coil Voltage	Contact Configuration	Coil Resistance (Ohms)	Catalog Number
Full Featured			
120 Vac	DPDT	1,700	D5PF2AA
110/125 Vdc	DPDT	10,000	D5PF2AA1
220/240 Vac	DPDT	7,200	D5PF2AB
12 Vdc	DPDT	120	D5PF2AR1
24 Vac	DPDT	72	D5PF2AT
24 Vdc	DPDT	470	D5PF2AT1
48 Vdc	DPDT	1,800	D5PF2AW1
120 Vac	3PDT	1,700	D5PF3AA
110/125 Vdc	3PDT	10,000	D5PF3AA1
220/240 Vac	3PDT	7,200	D5PF3AB
12 Vdc	3PDT	120	D5PF3AR1
24 Vac	3PDT	72	D5PF3AT
Plain Cover			
120 Vac	DPDT	1,700	D5PR2A
110/125 Vdc	DPDT	10,000	D5PR2A1
220/240 Vac	DPDT	7,200	D5PR2B
74 Vdc	DPDT	4,800	D5PR2G1
6 Vac	DPDT	4.2	D5PR2P

Coil Voltage	Contact Configuration	Coil Resistance (Ohms)	Catalog Number
Plain Cover, cor	ntinued		
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	1,800	D5PR2W1
120 Vac	3PDT	1,700	D5PR3A
110/125 Vdc	3PDT	10,000	D5PR3A1
220/240 Vac	3PDT	7200	D5PR3B
74 Vdc	3PDT	4,800	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 Vdc	3PDT	1,800	D5PR3W

Accessories

D5 Sockets and Accessories

Description	Standard Pack	Catalog Number
Socket	10	D5PAL ①
Socket	10	D5PA2
Socket	10	D5PA3L
Socket	10	D5PA3S
Metal spring clip	10	PQC-1351

Note

① Protection category (finger safe), EN 60529 IP20.

General Purpose Plug-In Relays—D7 Series

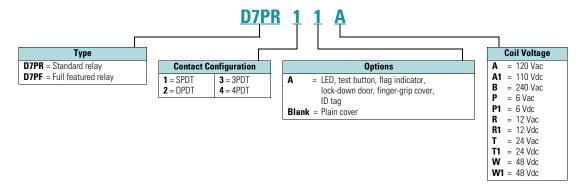


Features

- Arc barrier equipped relay with high dielectric strength
- Panel, DIN rail and flange mounting

Catalog Number Selection General Purpose Plug-In Relays—D7 Series

D7 Series ①



Product Selection

D7 Relay/Socket Quick Reference

Relay Type	Socket/Adapter	Clip
D7PR1	D7PAA	PQC-1342
D7PR2	_	PQC-1349
D7PF1	D7PA9	PQC-1342
D7PF2	PFC-D2D72	_
D7PR3	D7PAB	PQC-1783
		PMC-1783
D7PF3	PFC-D73	_
D7PR4	D7PAD	PQC-1784
		PMC-1784
D7PF4	PFC-D74	_

Note

① For deciphering catalog numbers.

Do not use for ordering as not all combinations are readily available.

General Purpose Plug-In Relays - D7

Coil Voltage	Contact Configuration	Coil Resistance (Ohms)	Catalog Number
Full Featured			
120 Vac	SPDT	4,430	D7PF1AA
6 Vac	SPDT	9.6	D7PF1AP
6 Vdc	SPDT	40	D7PF1AP1
12 Vac	SPDT	46	D7PF1AR
24 Vdc	SPDT	650	D7PF1AT1
48 Vac	SPDT	788	D7PF1AW
48 Vdc	SPDT	2,600	D7PF1AW1
120 Vac	DPDT	4,430	D7PF2AA
110/125 Vdc	DPDT	11,000	D7PF2AA1
220/240 Vac	DPDT	15,720	D7PF2AB
6 Vac	DPDT	9.6	D7PF2AP
6 Vdc	DPDT	40	D7PF2AP1
12 Vac	DPDT	46	D7PF2AR
12 Vdc	DPDT	160	D7PF2AR1
24 Vac	DPDT	180	D7PF2AT
24 Vdc	DPDT	650	D7PF2AT1
48 Vac	DPDT	788	D7PF2AW
48 Vdc	DPDT	2,600	D7PF2AW1
120 Vac	3PDT	2,770	D7PF3AA
6 Vac	3PDT	6	D7PF3AP
6 Vdc	3PDT	25	D7PF3AP1
12 Vac	3PDT	25.3	D7PF3AR
24 Vac	3PDT	103	D7PF3AT
24 Vdc	3PDT	400	D7PF3AT1
48 Vac	3PDT	412	D7PF3AW
48 Vdc	3PDT	1,600	D7PF3AW1
120 Vac	4PDT	2,220	D7PF4AA
110/125 Vdc	4PDT	7,340	D7PF4AA1
240 Vac	4PDT	9,120	D7PF4AB
6 Vac	4PDT	5.4	D7PF4AP
6 Vdc	4PDT	24	D7PF4AP1
12 Vac	4PDT	21.2	D7PF4AR
12 Vdc	4PDT	96	D7PF4AR1
24 Vac	4PDT	84.5	D7PF4AT
24 Vdc	4PDT	388	D7PF4AT1
48 Vdc	4PDT	1,550	D7PF4AW
48 Vac	4PDT	410	D7PF4AW1

Coil Voltage	Contact Configuration	Coil Resistance (Ohms)	Catalog Number
Plain Cover			
120 Vac	SPDT	4,430	D7PR1A
110/125 Vdc	SPDT	11,000	D7PR1A1
220/240 Vac	SPDT	15,720	D7PR1B
6 Vac	SPDT	9.6	D7PR1P
12 dc	SPDT	160	D7PR1R1
24 Vac	SPDT	180	D7PR1T
24 Vdc	SPDT	650	D7PR1T1
48 Vdc	SPDT	2600	D7PR1W1
120 Vac	DPDT	4,430	D7PR2A
110/125 Vdc	DPDT	11,000	D7PR2A1
220/240 Vac	DPDT	15,720	D7PR2B
6 Vac	DPDT	9.6	D7PR2P
6 Vdc	DPDT	40	D7PR2P1
12 Vac	DPDT	46	D7PR2R
12 Vdc	DPDT	160	D7PR2R1
24 Vac	DPDT	180	D7PR2T
24 Vdc	DPDT	650	D7PR2T1
120 Vac	3PDT	2,770	D7PR3A
240 Vac	3PDT	12,100	D7PR3B
6 Vac	3PDT	6	D7PR3P
12 Vac	3PDT	25.3	D7PR3R
12 Vdc	3PDT	100	D7PR3R1
24 Vac	3PDT	103	D7PR3T
24 Vdc	3PDT	400	D7PR3T1
48 Vdc	3PDT	1,600	D7PR3W1
120 Vac	4PDT	2,220	D7PR4A
110/125 Vdc	4PDT	7,340	D7PR4A1
240 Vac	4PDT	9,120	D7PR4B
6 Vac	4PDT	5.4	D7PR4P
24 Vac	4PDT	84.5	D7PR4T
24 Vdc	4PDT	388	D7PR4T1
48 Vdc	4PDT	1,550	D7PR4W1

Accessories

D7 Sockets and Accessories

Standard Pack	Catalog Number
_	D7PAA ①
1	D7PA9
_	D7PAD ①
_	D7PAB ①
25	PFC-D2D72
25	PFC-D73
25	PFC-D74
	Pack 1 25 25

Туре	Standard Pack	Catalog Number
Metal spring clip	25	PQC-1342
Plastic ID clip	10	PQC-1349
Metal spring clip	25	PQC-1784
Plastic ID clip	10	PMC-1784
Hold-down spring	25	PYC-B2
Metal spring clip	10	PQC-1783
Plastic ID clip	10	PMC-1783

Note

① Protection category (finger safe) EN 60529 IP20.

General Purpose Plug-In Relays—D8 Series



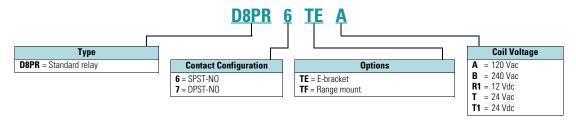
Features

- Allows switching of 25A and 30A loads
- A high-capacity, high-withstand voltage relay compatible with momentary voltage drops
- No contact chattering for momentary voltage drops up to 50% of rated voltage

Catalog Number Selection

General Purpose Plug-In Relays—D8 Series

D8 Series ①



Product Selection

D8 Relay/Socket Quick Reference

Relay Type	Mounting Bracket	Adapter Track/ Panel Mount	Sockets Track/ Panel Mount
D8PR6TE	D8PA5	D8PA1	D8PA2
D8PR7TE	D8PA5	D8PA1	D8PA2

Note

For deciphering catalog numbers.
 Do not use for ordering as not all combinations are readily available.

D8 Series

Coil Voltage	Catalog Number
SPST E-Bracket	
24 Vac	D8PR6TET
24 Vdc	D8PR6TET1
SPST Flange Mount	
120 Vac	D8PR6TFA
24 Vdc	D8PR6TFT1
DPST E-Bracket	
120 Vac	D8PR7TEA
DPST Flange Mount	
120 Vac	D8PR7TFA
24 Vdc	D8PR7TFT1

Accessories

D8 Series Sockets and Accessories

Description	Standard Pack	Catalog Number	
Sockets			
DIN rail adapter	10	D8PA1	
Screw terminal adapter	10	D8PA2	
Bracket adapter	10	D8PA5	
Accessory			
DIN rail end stop	100	PFP-M	

General Purpose Plug-In Relays—D9 Series



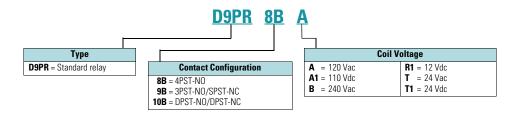
Features

- 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

Catalog Number Selection

General Purpose Plug-In Relays—D9 Series

D9 Series ①



Product Selection

D9 Series

Coil Voltage	Catalog Number	Catalog Number	
4PST-NO Power Relay			
24 Vac	D9PR8BT		
120 Vac	D9PR8BA		
240 Vac	D9PR8BB		
24 Vdc	D9PR8BT1		
3PST-NO/SPST-NC Power Relay			
120 Vac	D9PR9BA		
DPST-NO/DPST-NC Power Relay			
24 Vac	D9PR10BT		
120 Vac	D9PR10BA		
24 Vdc	D9PR10BT1		
•			

Note

For deciphering catalog numbers.
 Do not use for ordering as not all combinations are readily available.

General Purpose Type AA Relays

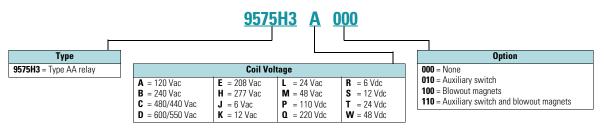


Features

- Type AA panel mounted relays are rated (each pole) 40A up to 300 Vac, 50/60 Hz; 5A at 480/600 Vac, 50/60 Hz and 40A at 28 Vdc
- 9575H Series 3000 relays are ideal for applications when controlling smaller loads such as single-phase motors

Catalog Number Selection General Purpose Type AA Relays

Type AA



Product Selection

Type AA Relays

Relay Style	Catalog Number ①		
Relay (DPDT)	9575H3_000		
Relay with auxiliary switch	9575H3_010		
Relay with blowout magnets	9575H3_100		
Relay with auxiliary switch and blowout magnets	9575H3_110		

Coil Voltage Selection Table

Coil Voltage	Hz	Suffix Code
Volts AC		
120	50/60	A
240	50/60	В
480/440	60/50	C
600/550	60/50	D
208	50/60	E
277	50/60	Н
6	50/60	J
12	50/60	K
24	50/60	L
48	50/60	М

Coil Voltage	Hz Suffix Code	
Volts DC		
110	_	Р
220	_	Q
6	_	R
12	_	S
24	_	Т
48	_	W

Note

① Underscore (_) indicates missing coil voltage suffix code. See table above.

XTRE Control Relays



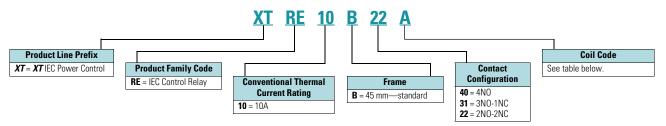
Features

- 16A conventional thermal current (open at 60°C I_{th})
- Four-pole configurations
 - 4NO
 - 3NO-1NC
 - 2NO-2NC
- Expandable to eight-pole with add-on front-mount auxiliary contacts
- Built-in surge suppression on DC coils

Catalog Number Selection

XTRE Control Relays

XTRE Relays



Product Selection

XTRE Control Relays

Conventional	044	Rated Operation	Rated Operational Current AC-15 I _e (A)			
Thermal Current Contact I _{th} (A), Open at 60°C Configuration	220-240V	380-414V	500V	Circuit Symbol	Catalog Number— Screw Terminals ①	
16	4NO	6	4	1.5	A1 ₁ 13 ₂ 23 ₃ 33 ₄ 43 A2 14 24 34 44	XTRE10B40_
16	3NO-1NC	6	4	1.5	A1 ₁ 13 ₂ 21 ₃ 3 ₄ 43 	XTRE10B31_
16	2NO-2NC	6	4	1.5	A1 ₁ 13 ₁ 21 ₃ 31 ₁ 43 	XTRE10B22_@

Coil Voltage Suffix

Coil Voltage	Suffix Code
110V 50 Hz, 120V 60 Hz	A
220V 50 Hz, 240V 60 Hz	В
24V 50/60 Hz	T

Coil Voltage	Suffix Code
24 Vdc	TD
415V 50 Hz, 480V 60 Hz	С

Coil Voltage	Suffix Code
550V 50 Hz, 600V 60 Hz	D
208V 60 Hz	E

Notes

- ① Underscore (_) indicates magnet coil suffix required. See table above.
- ② DC operated control relays XTRE(C)10B22_ can only be combined with two-pole auxiliary contacts.

Front Mount Auxiliary Contacts for Use with XTRE Control Relays ①

		Rated Op	erational Curre	ent AC-15 l _e (A)				
Conventional Thermal Current I _{th} (A), Open at 60°C	Poles	220V 230V 240V	380V 400V 415V	500V	Contact Configuration	Circuit Symbol	Package Quantity	Catalog Number— Screw Terminals
16	2	6	3	1.5	2NO	53 63 -\\ 54 64	5	XTCEXFAC20v
16	2	6	3	1.5	1NC-1NC	53 ₁ 61 \/ 54162	5	XTCEXFAC11
16	4	6	3	1.5	4N0	53,63,73,83 -\-\-\-\-\-\-\-\ 54164174184	5	XTCEXFAC40
16	4	6	3	1.5	2NO-2NC	53,61,73,83 -\54,62,74,84	5	XTCEXFAC22

Note

① Interlocked opposing contacts, to IEC/EN 60947-5-1 Annex L (positively driven), within the auxiliary contact modules (not NOE and NCL contacts) and between the auxiliary contacts and built-in contacts of the XTRE control relays.

Solid-State Relays—D93 Series

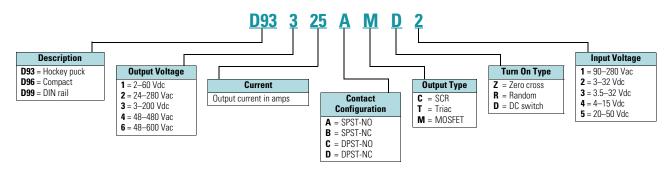


Features

- All solid-state circuitry with no moving parts to wear
- Compact, panel mounting for flexible installation
- Isolated input and output terminals to protect the system from electrical noise
- Internal snubber circuitry to protect the SSR from transients
- UL®/cUL® listed—UL 508
- CSA® certified
- CE marked
- · RoHS compliant

Catalog Number Selection Solid-State Relays—D93 Series

D93 Series



Product Selection

D93 Series

Input Voltage	Output Voltage	Contact Configuration	Switching Type	Rated Current Load (A)	Catalog Number
90–280 Vac	24–280 Vac	SPST-NO	Zero cross	10	D93210ACZ1
3–32 Vdc	24-280 Vac	SPST-NO	Zero cross	10	D93210ACZ2
3–32 Vdc	24-280 Vac	SPST-NO	Triac	10	D93210ATZ2
90–280 Vac	24–280 Vac	SPST-NO	Zero cross	25	D93225ACZ1
3–32 Vdc	24-280 Vac	SPST-NO	Zero cross	25	D93225ACZ2
3–32 Vdc	24–280 Vac	SPST-NO	Triac	25	D93225ATZ2
90–280 Vac	24-280 Vac	SPST-NO	Zero cross	40	D93240ACZ1
3–32 Vdc	24-280 Vac	SPST-NO	Zero cross	40	D93240ACZ2
3–32 Vdc	24–280 Vac	SPST-NO	Triac	40	D93240ATZ2
90–280 Vac	24-280 Vac	SPST-NO	Zero cross	50	D93250ACZ1
3–32 Vdc	24–280 Vac	SPST-NO	Zero cross	50	D93250ACZ2
90–280 Vac	24–280 Vac	SPST-NO	Zero cross	75	D93275ACZ1
3–32 Vdc	24-280 Vac	SPST-NO	Zero cross	75	D93275ACZ2
3–32 Vdc	3–200 Vdc	SPST-NO	MOSFET	12	D93312AMD2
3–32 Vdc	3–200 Vdc	SPST-NO	MOSFET	25	D93325AMD2
3–32 Vdc	3-200 Vdc	SPST-NO	MOSFET	40	D93340AMD2

Accessory

Heat Sink Accessory

Description	Catalog Number
Heat sink	D93HS1

Solid-State Relays—D96 Series



Features

- All solid-state circuitry has no moving parts to wear
- Integral heat sink eliminates the need for added accessories and installation
- Flexible mounting allows DIN rail or panel mounting without additional hardware or tools
- Isolated input and output terminals protect the system from electrical noise
- Internal snubber circuitry protects the SSR from transients
- UL/cUL listed—UL 508
- CSA certified
- CE marked
- RoHS compliant

Product Selection

Solid-State Relays—D96 Series

D96 Series

200 001100					
Input Voltage	Output Voltage	Contact Configuration	Switching Type	Rated Current Load (A)	Catalog Number
3.5–32 Vdc	3–50 Vdc	SPST-NO	DC switch	15	D96115ACZ3
3.5–32 Vdc	3-150 Vac	SPST-NO	DC switch	8	D96208ACZ3
90–280 Vac	24–280 Vac	SPST-NO	Random	10	D96210ACR1
3–32 Vdc	24–280 Vac	SPST-NO	Random	10	D96210ACR2
90–280 Vac	24–280 Vac	SPST-NO	Zero cross	10	D96210ACZ1
3–32 Vdc	24–280 Vac	SPST-NO	Zero cross	10	D96210ACZ2
3–32 Vdc	24-280 Vac	SPST-NC	Random	10	D96210BCR2
90–280 Vac	48–480 Vac	SPST-NO	Random	10	D96410ACR1
3–32 Vdc	48–480 Vac	SPST-NO	Random	10	D96410ACR2
90–280 Vac	48-480 Vac	SPST-NO	Zero cross	10	D96410ACZ1
3–32 Vdc	48-480 Vac	SPST-NO	Zero cross	10	D96410ACZ2
90–280 Vac	48-600 Vac	SPST-NO	Random	10	D96610ACR1
90–280 Vac	48-600 Vac	SPST-NO	Zero cross	10	D96610ACZ1
3–32 Vdc	48-600 Vac	SPST-NO	Zero cross	10	D96610ACZ2

Solid-State Relays—D99 Series



Features

- All solid-state circuitry has no moving parts to wear
- Integral heat sink eliminates the need for added accessories and installation
- Flexible mounting allows DIN rail or panel mounting without additional hardware or tools
- Isolated input and output terminals protect the system from electrical noise
- Internal snubber circuitry protects the SSR from transients
- UL/cUL listed—UL 508
- CSA certified
- CE marked
- RoHS compliant

Product Selection

Solid-State Relays—D99 Series

D99 Series

Input Voltage	Output Voltage	Contact Configuration	Switching Type	Rated Current Load (A)	Catalog Number
90-280 Vac	24–280 Vac	SPST-NO	Zero cross	10	D99210ACZ1
3–32 Vdc	24–280 Vac	SPST-NO	Zero cross	10	D99210ACZ2
90–280 Vac	24-280 Vac	SPST-NO	Zero cross	25	D99225ACZ1
3–32 Vdc	24-280 Vac	SPST-NO	Zero cross	25	D99225ACZ2
90–280 Vac	24-280 Vac	SPST-NO	Zero cross	40	D99240ACZ1
3–32 Vdc	24-280 Vac	SPST-NO	Zero cross	40	D99240ACZ2
90–280 Vac	48-600 Vac	SPST-NO	Zero cross	10	D99610ACZ1
3–32 Vdc	48-600 Vac	SPST-NO	Zero cross	10	D99610ACZ2
90–280 Vac	48-600 Vac	SPST-NO	Zero cross	25	D99625ACZ1
3–32 Vdc	48-600 Vac	SPST-NO	Zero cross	25	D99625ACZ2
90–280 Vac	48-600 Vac	SPST-NO	Zero cross	40	D99640ACZ1
3–32 Vdc	48-600 Vac	SPST-NO	Zero cross	40	D99640ACZ2

Universal TR Series Timing Relays





Product Selection

Universal TR Series Timing Relays

Universal TR Series

Supply Voltage	Description	Catalog Number	
4-Function		<u> </u>	
24-240 Vac/Vdc	Compact DIN rail mount, SPDT	TRL04	
7-Function			
24-240 Vac/Vdc	Compact DIN rail mount, SPDT	TRL07	
12–240 Vac/Vdc Compact DIN rail mount, DPDT		TRL27	
	Asymmetrical pulse generator, DPDT	TRW27	

Features

- Multiple user-selectable timing functions and timing ranges in a single unit reduce product variations and stock keeping units (SKUs)
- Universal input voltages from 12 or 24–240 Vac/Vdc eliminate the need to order and stock separate coil voltages
- Compact, DIN rail mountable case reduces panel size
- Advanced LED indication makes troubleshooting easy
- Staggered terminal locations allow access to lower-level terminals after wiring
- SPDT or DPDT contacts with 8A ratings
- cULus listed
- CE marked
- RoHS compliant
- IEC/EN 61812

TMR5 Series Timing Relays

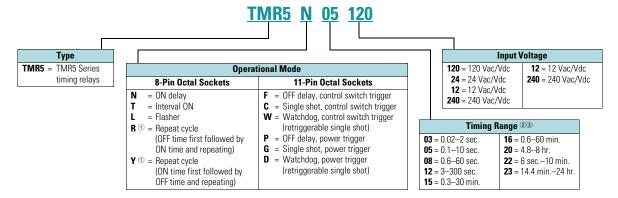


Features

- Single timing range for each unit
- Ranges available from 0.02 sec. to 24 hours
- Wide variety of functions available
- 10A DPDT output contacts

Catalog Number Selection TMR5 Series Timing Relays

TMR5 Series



Product Selection

TMR5 Time Delay Relays

Input Voltage	Socket	Timing Range	Catalog Number
ON Delay			
120 Vac/Vdc	8-pin	0.1-10 sec.	TMR5N05120
120 Vac/Vdc	<u></u>	0.6-60 sec.	TMR5N08120
24 Vac/Vdc		0.1-10 sec.	TMR5N0524
24 Vac/Vdc	<u></u>	0.6-60 sec.	TMR5N0824
OFF Delay, Cont	trol Switch Trig	ger	
120 Vac/Vdc	11-pin	0.1-10 sec.	TMR5F05120
120 Vac/Vdc	<u></u>	0.6-60 sec.	TMR5F08120
24 Vac/Vdc	<u></u>	0.1-10 sec.	TMR5F0524
24 Vac/Vdc		0.6-60 sec.	TMR5F0824
Interval ON			
120 Vac/Vdc	8-pin	0.1-10 sec.	TMR5T05120
120 Vac/Vdc	<u></u>	0.6-60 sec.	TMR5T08120
24 Vac/Vdc	<u></u>	0.1-10 sec.	TMR5T0524
24 Vac/Vdc	<u></u>	0.6-60 sec.	TMR5T0824

Input Voltage	Socket	Timing Range	Catalog Number
Single Shot, Co	ontrol Switch Tr	igger	
120 Vac/Vdc	11-pin	0.1-10 sec.	TMR5C05120
120 Vac/Vdc		0.6-60 sec.	TMR5C08120
24 Vac/Vdc		0.1-10 sec.	TMR5C0524
24 Vac/Vdc		0.6-60 sec.	TMR5C0824
Repeat Cycle (OFF Time First F	ollowed by ON Tim	e and Repeating)
120 Vac/Vdc	8-pin	0.1-10 sec.	TMR5R05120
120 Vac/Vdc		0.6-60 sec.	TMR5R08120
24 Vac/Vdc		0.1-10 sec.	TMR5R0524
24 Vac/Vdc		0.6-60 sec.	TMR5R0824
Repeat Cycle (ON Time First F	ollowed by OFF Tim	e and Repeating)
120 Vac/Vdc	8-pin	0.1-10 sec.	TMR5Y05120
120 Vac/Vdc		0.6-60 sec.	TMR5Y08120
24 Vac/Vdc		0.1-10 sec.	TMR5Y0524
24 Vac/Vdc		0.6-60 sec.	TMR5Y0824

Notes

- ① Indicates DUAL knob unit. All dual knob units can have independently selectable and adjustable ON and OFF times. If different ON and OFF times are desired, add two codes for time ranges in the part number. The first code listed indicates the first timing range of the unit (OFF time for R, ON time for Y) and the second code indicates the second timing range (ON time for R, OFF Time for Y).
- $\begin{tabular}{ll} \begin{tabular}{ll} \dot{} \end{tabular} & \begin{tabular}{ll} \dot{}$
- $\ensuremath{^{\circlearrowleft}}$ Fixed time delay settings are available for orders of 50 pieces or more.

TMR6 Series Timing Relays

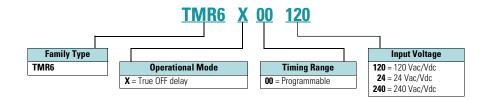
Features

- Provides OFF delay function without requiring input voltage during OFF time delay
- Duplicates operation of pneumatic OFF delay timers
- Each unit has eight timing ranges built in, covering 0.05 seconds to 30 minutes
- Selecting a range is easy using a rotary switch (no math is required or DIP switches to set)
- Uses industry-standard
- 8-pin octal socket
- 10A DPDT output contacts
- cRUus
- UL listed (with Eaton socket)
- RoHS compliant
- CE marked

Catalog Number Selection

TMR6 Series Timing Relays

TMR6 Series



Product Selection

TMR6 True OFF Delay Relays

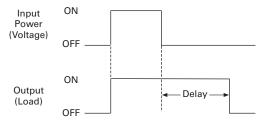
Input Voltage	Timing Range	Catalog Number
120 Vac/Vdc	0.05 sec30 min.	TMR6X00120
24 Vac/Vdc	(user selectable, eight ranges)	TMR6X0024
240 Vac/Vdc		TMR6X00240

Accessories

Accessories for Use with TMR6 Time Delay Relays

Description	Standard Pack	Catalog Number
8-pin socket	10	D3PA2
Hold-down spring	10	D65CHDS

True OFF Delay



TMRP Series Timing Relays



Product Selection

TMRP Series Timing Relays

TMRP Timing Relays

Description	Catalog Number
Control switch trigger, DPDT	TMRP5100
Control switch trigger, SPDT	TMRP5101
Power trigger, DPDT	TMRP5102
	Control switch trigger, DPDT Control switch trigger, SPDT

Features

- Multiple user-selectable timing functions and timing ranges in a single unit reduce product variations and stock keeping units (SKUs)
- Universal input voltages from 12–240 Vac/Vdc eliminate the need to order and stock separate coil voltages
- Timing ranges up to 9990 hours
- Dual LED indication makes troubleshooting easy
- Flexible design for back-panel, through-panel (45 mm x 45 mm cutout), or DIN rail mounting
- SPDT or DPDT contacts with 12A ratings
- Plastic dust cover keeps out contaminants and eliminates accidental set point changes
- Use with standard Eaton D3 sockets
- UL recognized
- CE marked
- · RoHS compliant