SP.

PRD Series Power Relay

- Contact ratings to 50 amps
- Magnetic blowouts available for switching DC loads
- Contact arrangement up to 2 form C (2C0)
- 1 Form C auxiliary switch available
- UL class B insulation



Contact rating Type	Load	Cycle
UL 508 ¹⁾		0)0.0
Models with scr	ews or quick connects for main terminals	
Code F, AgCdO		
, 0	50A, 240VAC, general purpose ²⁾	20x1
	30A, 277VAC, resistive	100x1
	1.5HP, 120VAC	100x1
	2HP, 250VAC	100x1
	10A, 600VAC	100x1
Code F, AgCdO	, 2 pole	
	50A, 240VAC, general purpose ²⁾	20x1
	30A, 240VAC	100x1
	20A, 277VAC	100x1
	1.5HP, 120VAC	100x1
	2HP, 250VAC	100x1
	10A, 600VAC	100x1
2) In order to achiev	ve 50A rating with Contact Code F, Termination Code () or A is require
Code H, Ag with	n magnetic blowout, 1 or 2 pole	
	20A, 125VDC	100x1
	1/3HP, 125VDC	100x1
Code J, AgCdO	with magnetic blowout, 1 or 2 pole	
	20A, 125VDC	100x1
	1/3HP, 125VDC	100x1
Code N, W stati	onary with AgCdO movable, 1 or 2 pole	
	25A, 250VAC	100x1
	1HP, 125VAC	100x1
	2HP, 250VAC	100x1
UL 508 ¹⁾ Models with box	lugs for main terminals	
Code P, Ag, 1 fc		
	50A, 277VAC, general purpose	100x1
	30A, 277VAC, ballast	6x10
	15A, 277VAC, tungsten	6x1
	102LRA, 17FLA, 240VAC	30x1
	120LRA, 20FLA, 120VAC	30x1
	1.5HP, 120VAC	30x1
	3HP, 240VAC	30x1
Factory rating		
	lugs for main terminals	
Code R, Ag with	n magnetic blowout, 1 form X	
	60A, 28VDC, resistive	100x1
	30A, 125VDC	100x1
	urance DC Coil, 1x10 ⁶ ops.; AC Coil	

Auxiliary Snap-Action Switch Contact Data

Contact arrangement	1 Form C (CO)
Rating	5A, 120VAC, 60 Hz., 25°C
Contact material	Ag

Typical applications Industrial controls, lighting

Approvals

UL E22575; CSA LR15734; VDE Reg.Nr.C144 Models with all screw terminals are UL Listed. Others are UL Recognized. Technical data of approved types on request

Contact Data

Contact arrangement	1 and 2 Form A (NO); 1 and 2 Form C (CO);
	1 Form X (NO-DM)
Rated voltage	600VAC,125VDC
Rated current	50A
Contact material	Ag, AgCdO, W
Min. recommended contact load	d 1A, 12VDC or 12VAC
Initial contact resistance	75mΩ Max
Initial voltage drop	75mV
Frequency of operation	7200 ops/hr
Operate/releases time max.	40/20ms
Bounce time max.	10ms

Contact ratings

Туре	Load	Cycles
UL 508 ¹⁾		-
Models with scre	ews or quick connects for main terminals	
Code Y, Ag, 1 pc	ble	
	25A, 277VAC	100x10 ³
	1HP, 120VAC	100x10 ³
	2HP, 250VAC	100x10 ³
	10A, 600VAC	100x10 ³
	7A, 50VDC, resistive	100x10 ³
Code Y, Ag, 2 pc	ble	
	25A, 240VAC	100x10 ³
	20A, 277VAC	100x10 ³
	1HP, 120VAC	100x10 ³
	2HP, 250VAC	100x10 ³
	7A, 50VDC, resistive	100x10 ³
	10A, 600VAC	100x10 ³
Code G, AgCdO	, 1 pole	
	30A, 277VAC, resistive	100x10 ³
	1.5HP, 120VAC	100x10 ³
	2HP, 250VAC	100x10 ³
	10A, 600VAC	100x10 ³
Code G, AgCdO	, 2 pole	
	30A, 240VAC	100x10 ³
	20A, 277VAC	100x10 ³
	1.5HP, 120VAC	100x10 ³
	2HP, 250VAC	100x10 ³
	10A, 600VAC	100x10 ³

not UL or CSA listed. All horsepower ratings are for single phase motors..

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PRD Series Power Relay (Continued)

Coil Data

0011 00					
Coil voltage range			6	to 110VDC	
				to 480VAC	
Coil insul	Coil insulation system according UL Class B				
Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	W
6	6	4.5	0.6	18	2
12	12	9	1.2	71	2
24	24	18	2.4	288	2
48	48	36	4.8	1150	2
110	110	82.5	11	6050	2
A 11 C					0000

All figures are given for coil without preenergization, at ambient temperature +23°C. Other coil voltages on request.

Coil versions, AC coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VAC	VAC	VAC	Ω±15%	VA
6	6	5.1	0.6	0.86	9.8
12	12	10.2	1.2	3.2	9.8
24	24	20.4	2.4	12	9.8
120	120	102	12	290	9.8
240	240	204	24	1200	9.8
480	480	408	48	4500	9.8

All figures are given for coil without preenergization, at ambient temperature +23°C. Other coil voltages on request.

Dimensions

PRD/PRDA 1, 3, 5 and 7

PRD/PRDA 11



Initial dielectric strength		
between open contacts	2000V _{rms}	
between contact and coil	2000Vms	
between adjacent contacts	2000Vms	
Initial insulation resistance		
between insulated elements	100MΩ	

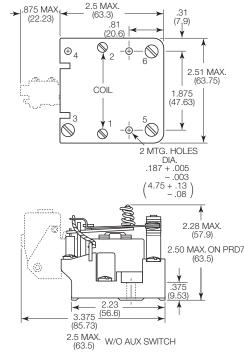
Other Data

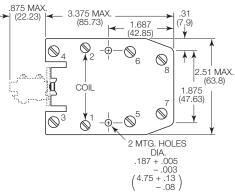
Material compliance:	EU RoHS/ELV, China RoHS, REACH, Halogen content				
refer to the Product Compliance Support Center at					
	www.te.com/customersupport/rohssupportcenter				
Ambient temperature					
AC coil: -55°C to 4	45°C				
DC coil: -55°C to	80°C				
Category of environn	nental protection				
IEC 61810	RT0 - open relay				
Terminal type	Screw, Quick connects, Box lugs				
Weight	284g				
Packaging/unit	tray/20 pcs., box/40pcs.				

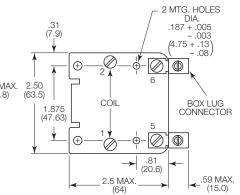
Accessories

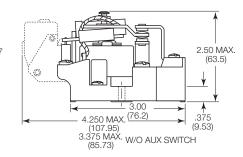
Product Code	Description
35D013	Metal dust cover

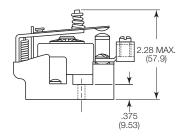
PRD-3_P and R











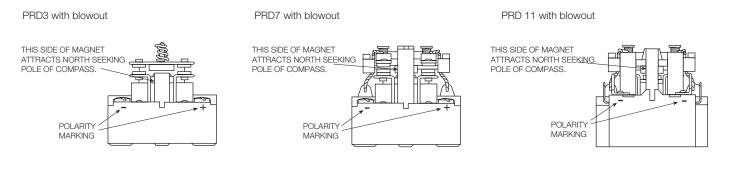
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PRD Series Power Relay (Continued)

Terminal assignment for models with magnetic blowout



Product	code structure	Typical product code	PRD	-7	Α	Y	0	-120
Туре			J					
	D Open relay							
	DA Open relay with aux. 1 form C (CO) snap-	action switch						
	tact arrangement							
		3 1 form X (1 NO-DM)						
	()	7 2 form A (2 NO)						
	01	11 2 form C (2 CO)						
	7V is only available as a UL Recognized model, not UL L	ISTEC			J			
Coil input		DC						
	tact material and type]		
	.312" (7.92mm) dia. Ag [25A max. rating]							
	.312" (7.92mm) dia. AgCdO [30A max. rating]							
F	.312" (7.92mm) dia. AgCdO [50A max. rating	1						
	Ag with magnetic blowout [20A DC max. rat							
	AgCdO with magnetic blowout [20A DC may							
	W stationary & AqCdO movable [25A max. r							
Р	Ag [50A max. rating] ⁵⁾	51						
R	Ag with magnetic blow out [50A max. rating]	5)						
		, 5, 7 or 11 only, and Termination code (step 5 below) 0 o	or A only.					
	ble with Main contact arrangement code (step 2 above)							
,	ble with Main contact arrangement code (step 2 above) -							
	ble with Main contact arrangement code (step 2 above)	only, and Termination code (step 5 below) 4 only.						
Terminati								
	D types only							
	#8-32 screw term. for main contacts, #6-32							
1	.250" (6.35mm) QC for main contacts and co							
3	#8-32 screw term. for main contacts, .250" (,						
4	Box lug term. which accept #6 - #14 wire for							
		8 only, and Main contact material code (step 4 above) P o	r R only.					
	BDA (with aux. switch) types only	and the set of a set of the set o						
		screw term. for coil, screw term. for aux. switch						
BL	.250" (6.35mm) QC for main contacts, coil ar Twin .250" (6.35mm) QC for main contacts,							
L Coil volta]
	ge il code: please refer to coil versions table							
	in code. Piedse reler to coll versions table							

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PRD Series Power Relay (Continued)

Product Code	Arrangement	Material	Coil	Terminals	Part Number
PRD-3AY0-120	1 form X, 1 NO-DM	Ag	120VAC	Screw	7-1393127-9
PRD-3AG0-120		AgCdO, 30A			6-1393127-9
PRD-3AJ0-120		AgCdO, mag blowout			7-1393127-4
PRD-3AJ3-24			24VAC	Screw / QC	7-1393127-5
PRD-3DH0-24		Ag, mag blowout	24VDC	Screw	8-1393127-6
PRD-3DY0-12		Aq	12VDC		9-1393127-5
PRD-3DY0-24			24VDC	-	9-1393127-6
PRD-3DY0-110			110VDC	_	9-1393127-4
PRD-5AY0-24	1 form C, 1 CO		24VAC	-	1393128-6
PRD-5AY0-120	1 10111 0, 1 00		120VAC		1393128-5
PRD-5AY1-120			120VAO	QC	1-1393128-1
PRD-5AY0-240			240VAC	Screw	1393128-7
			12VDC	Screw	
PRD-5DF0-12		AgCdO, 50A	12VDC		2-1423100-4
PRD-5DY0-12		Ag	0.0.00	_	1-1393128-6
PRD-5DY0-24			24VDC	_	1-1393128-7
PRD-7AG0-120	2 form A, 2 NO	AgCdO, 30A	120VAC	_	9-1393129-5
PRD-7AY0-24		Ag	24VAC	_	1393130-9
PRD-7AY0-120			120VAC		1393130-7
PRD-7AY0-240			240VAC		1-1393130-0
PRD-7AY3-120			120VAC	Screw / QC	1-1393130-2
PRD-7DG0-24		AgCdO, 30A	24VDC	Screw	1-1393130-6
PRD-7DH0-48		Ag, mag blowout	48VAC		2-1393130-1
PRD-7DY0-12		Ag	12VDC		2-1393130-8
PRD-7DY0-24			24VDC		2-1393130-9
PRD-11AF0-240	2 form C, 2 CO	AgCdO, 50A	240VAC		3-1423100-0
PRD-11AG0-24		AqCdO, 30A	24VAC	-	1-1393127-1
PRD-11AG0-120			120VAC	1	1393127-9
PRD-11AG0-240			240VAC	-	1-1393127-2
PRD-11AH0-120		Ag, mag blowout	120VAC		1-1393127-6
PRD-11AY0-24		Ag	24VAC		2-1393127-9
PRD-11AY0-120		A9	120VAC	-	2-1393127-6
PRD-11AY0-240			240VAC	-	3-1393127-0
			480VAC	-	
PRD-11AY0-480		AgCdO, 50A	12VDC	_	3-1393127-1
PRD-11DF0-12		Agudu, sua		_	2-1423100-2
PRD-11DF0-110			110VDC	_	2-1423100-9
PRD-11DG0-12		AgCdO, 30A	12VDC	_	3-1393127-5
PRD-11DG0-24			24VDC	_	3-1393127-8
PRD-11DH0-12		Ag, mag blowout	12VDC	_	4-1393127-7
PRD-11DH0-24			24VDC		4-1393127-9
PRD-11DH0-48			48VDC		5-1393127-0
PRD-11DH0-110			110 VDC		4-1393127-6
PRD-11DJ0-24		AgCdO, mag blowout	24 VDC		5-1393127-5
PRD-11DY0-12		Ag	12 VDC		6-1393127-1
PRD-11DY0-24			24 VDC		6-1393127-2
PRD-11DY0-48			48 VAC		6-1393127-3
PRD-11DY0-110			110 VDC		6-1393127-0
PRDA-11AGA-120		AgCdO, 30A	120 VAC		7-1393131-4
PRDA-11AYA-120					7-1393131-9

PRD accessory

Product Code		Part Number			
35D013	Me	Metal dust cover enclosure			
	35D013 Dust Cover PRD dust cover has a steel base with knockouts for 0.5" (12.7mm) d conduit and a cover fitted with two screws. Fits PRD relays, except wit auxiliary contacts. Finished in gray baked enamel. Mounting: Three No. 10 holes on 1.875" (47.63mm) x 4.125" (104.77mm) centers.	h (12.7) (13.75) (47.63) (47.63) (47.63) (47.63) (47.63) (47.63) (2.36) (47.63) (2.36) (41.28) (38.1) (38.1) (19.1) (20.62) (

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