

PRD Series Power Relay

- Contact ratings to 50A
- 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



(h) **N° (f**)

			•
Contact	ratings (cont	inued)	
Туре	Load		Cycles
UL 5081)			
		ck connects for main terminals	
Code F, Ag	CdO, 1 pole		
	,	240VAC, general purpose ²⁾	20x10 ³
		277VAC, resistive	100x10 ³
		P, 120VAC	100x10 ³
		250VAC	100x10 ³
		600VAC	100x10 ³
Code F, Ag	CdO, 2 pole		
		240VAC, general purpose ²⁾	20x10 ³
	,	240VAC	100x10 ³
	,	277VAC	100x10 ³
		P, 120VAC	100x10 ³
		250VAC	100x10 ³
		600VAC	100x10 ³
2) In order to	achieve 50A rating	with contact code F, termination Code	0 or A is required.
Code H, A		blowout, 1 or 2 pole	
		125VDC	100x10 ³
		P, 125VDC	100x10 ³
Code J, Ag		etic blowout, 1 or 2 pole	
	,	125VDC	100x10 ³
		P, 125VDC	100x10 ³
Code N, W		AgCdO movable, 1 or 2 pole	
		250VAC	100x10 ³
		125VAC	100x10 ³
	2HP,	250VAC	100x10 ³
UL 508 ¹⁾			
	h box lugs for m	iain terminals	
Code P, Ag			
		277VAC, general purpose	100x10 ³
	,	277VAC, ballast	6x10 ³
	,	277VAC, tungsten	6x10 ³
		RA, 17FLA, 240VAC	30x10 ³
		RA, 20FLA, 120VAC	30x10 ³
		P, 120VAC	30x10 ³
	,	240VAC	30x10 ³
Factory ra			
	h box lugs for m		
Code R, Ag		blowout, 1 form X	
	60A, 28VE	DC, resistive	100x10 ³
	30A, 125\	/DC	100x10 ³
Mechanica	l endurance	DC Coil, 1x10 ⁶ ops.; AC Co	il 5x10⁵ ops.
			· · ·
Auxiliary	Snap-Action	n Switch Contact Data	
Contact an		1 form C (CO)	
Rating	-	5A, 120VAC, 60Hz., 25	°C
Contact ma	aterial	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 loa	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

Туре	Load	Cycles
UL 508 ¹⁾		
Models with so	crews or quick connects for main terminals	S
Code Y, Ag, 1	pole	
	25A, 277VAC	100x10
	1HP, 120VAC	100x10
	2HP, 250VAC	100x10
	10A, 600VAC	100x10
	7A, 50VDC, resistive	100x10
Code Y, Ag, 2		
	25A, 240VAC	100x10
	20A, 277VAC	100x10
	1HP, 120VAC	100x10
	2HP, 250VAC	100x10
	7A, 50VDC, resistive	100x10
	10A, 600VAC	100x10
Code G, AgCo		
	30A, 277VAC, resistive	100x10
	1.5HP, 120VAC	100x10
	2HP, 250VAC	100x10
	10A, 600VAC	100x10
Code G, AgCo		
	30A, 240VAC	100x10
	20A, 277VAC	100x10
	1.5HP, 120VAC	100x10
	2HP, 250VAC	100x10
	10A, 600VAC	100x10
	/ deviating electrically or physically from the standal A listed. All horsepower ratings are for single phase	

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PRD Series Power Relay (Continued)

Coil Data

Coil voltage range			6 to 110VDC				
			6 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		

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
	VAČ	VAČ	VAČ	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

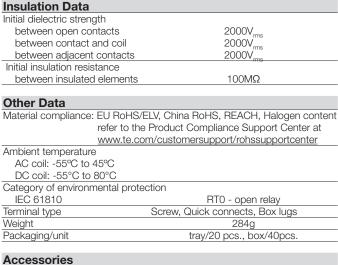
All figures are given for coil without preenergization, at ambient temperature +23°C. Other coil voltages on request.

Dimensions

PRD/PRDA 1, 3, 5 and 7

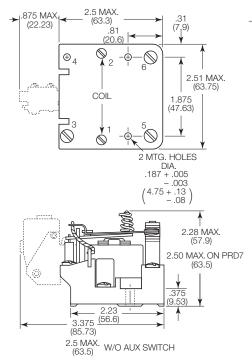


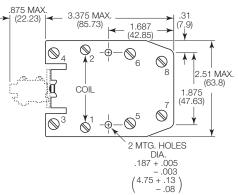


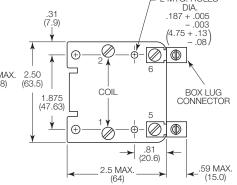


PRD-3_P and R

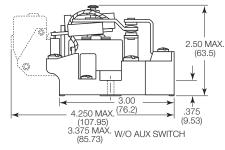
Product Code	Description
35D013	Metal dust cover

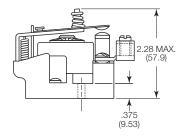






2 MTG. HOLES





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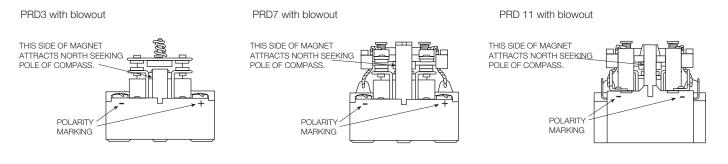
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PRD Series Power Relay (Continued)

Terminal assignment for models with magnetic blowout



Product code st	ructure	Typical product code	PRD	-7	Α	Y	0	-120
Type PRD Open PRDA Open	n relay n relay with aux. 1 form C (CO) sna	p-action switch						
Main contact arran 1 1 form A 5 1 form C 7V 2 form A 1) Code 7V is only av Coil input A A AC, 50/6 Main contact mate Y .312" (7. G .312" (7. F .312" (7. F J Agcdov N W station P Ag [50A R Ag with r 2) Available with Main	rgement (1 NO) (1 CO) (2 NO) with 3mm contact gap ¹⁾ railable as a UL Recognized model, not U SOHz	3 1 form X (1 NO-DM) 7 2 form A (2 NO) 11 2 form C (2 CO) L Listed D DC ng] ⁽²⁾ rating] ⁽³⁾ nax. rating] ⁽⁴⁾ ng] ⁽⁵⁾ only, and Termination code 0 or A only.						
	n contact arrangement code 1, 5, 7 or 11 n contact arrangement code 3 only, and 7							
Termination PRD types of 0 #8-32 sc 1 .250" (6. 3 #8-32 sc 4 Box lug ti 6) Available with Main PRDA (with A #8-32 sc B .250" (6. L Twin .250	crew term. for main contacts, #6-3 35mm) QC for main contacts and crew term. for main contacts, .250 term. which accept #6 - #14 wire i a contact arrangement code 3 only, and h aux. switch) types only crew term. for main contacts, #6-3 35mm) QC for main contacts, coil	2 screw term. for coil. coil " (6.35mm) QC for coil. for main contacts, #6-32 screw term. for coil. ⁶⁾ Main contact material code P or R only. 2 screw term. for coil, screw term. for aux. switc	h				_	
Coil voltage Coil code: ple	ease refer to coil 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			120VAC	-	1393128-5
PRD-5AY1-120			1201/10	QC	1-1393128-1
PRD-5AY0-240			240VAC	Screw	1393128-7
PRD-5DF0-12		AgCdO, 50A	12VDC	001000	2-1423100-4
PRD-5DY0-12		Ag	12000		1-1393128-6
PRD-5DY0-24		Ag	24VDC	_	1-1393128-7
PRD-7AG0-120	2 form A, 2 NO	AgCdO, 30A	120VAC	-	9-1393129-5
	2 10111 A, 2 NO		24VAC	_	
PRD-7AY0-24		Ag		_	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		AgCdO, 30A	24VAC		1-1393127-1
PRD-11AG0-120			120VAC		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		Ŭ	120VAC		2-1393127-6
PRD-11AY0-240			240VAC		3-1393127-0
PRD-11AY0-480			480VAC		3-1393127-1
PRD-11DF0-12		AgCdO, 50A	12VDC	_	2-1423100-2
PRD-11DF0-110		3 ,	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		, inag biowout	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
			12 VDC		
PRD-11DY0-12		Ag		-	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		Description	Part Number		
35D013	Met	Metal dust cover enclosure			
		(12.7) + (52.3) + (17.45) + (2.36) +	3.13 MAX. (79.5) .97 (24.64) .3.38 MAX. (85.9) .88 DIA. (22.4) KNOCKOUT HOLES KNOCKOUT HOLES EACH END		

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