

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



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F SP.

Typical	app	lication	S
Industr	rial co	ontrols,	lighting.

Approvals

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

Contact	Data

1 form X (NO-DM)
600VAC,125VDC
50A
Ag, AgCdO, W
1A, 12VDC or 12VAC
75mΩ max.
75mV
7200 ops/hr
40/20ms
10ms

Contact rating	s	
Туре	Load	Cycles
UL 508 ¹⁾		
Models with scre	ews or quick connects for main terminals	
Code Y, Ag, 1 po	ole	
	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 po	ole	
	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, AgCdC), 1 pole	
	30A, 277VAC, resistive	100x10 ³
	1.5HP, 120VAC	100x10 ³
	2HP, 250VAC	100x10 ³
	10A, 600VAC	100x10 ³
Code G, AgCdC), 2 pole	
	30A, 240VAC	100x10 ³
	20A, 277VAC	100x10 ³
	1.5HP, 120VAC	100x10 ³
	2HP, 250VAC	100x10 ³
	10A, 600VAC	100x10 ³
1) Any PRD relay d	eviating electrically or physically from the standard mo	odels in the table is

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

Contact ratings	s (continued)	
Туре	Load	Cycles
UL 508 ¹⁾		
Models with screws	s or quick connects for main terminals	
Code F, AgCdO, 1		
	50A, 240VAC, general purpose ²⁾	20x10 ³
	30A, 277VAC, resistive	100x10 ³
	1.5HP, 120VAC	100x10 ³
	2HP, 250VAC	100x10 ³
	10A, 600VAC	100x10 ³
Code F, AgCdO, 2		
	50A, 240VAC, general purpose ²⁾	20x10 ³
	30A, 240VAC	100x10 ³
	20A, 277VAC	100x10 ³
	1.5HP, 120VAC	100x10 ³
	2HP, 250VAC	100x10 ³
	10A, 600VAC	100x10 ³
2) In order to achieve 5	0A rating with contact code F, termination Code C) or A is required.
Code H. Aa with m	agnetic blowout, 1 or 2 pole	
oodo H, / g with hi	20A, 125VDC	100x10 ³
	1/3HP, 125VDC	100x10 ³
Code J. AaCdO wit	th magnetic blowout, 1 or 2 pole	100/10
Code 0, Agodo Mi	20A, 125VDC	100x10 ³
	1/3HP, 125VDC	100x10 ³
Code N. W stationa	ary with AgCdO movable, 1 or 2 pole	
	25A, 250VAC	100x10 ³
	1HP, 125VAC	100x10 ³
	2HP, 250VAC	100x10 ³
UL 508 ¹⁾		
	gs for main terminals	
Code P, Ag, 1 form		
	50A, 277VAC, general purpose	100x10 ³
	30A, 277VAC, ballast	6x10 ³
	15A, 277VAC, tungsten	6x10 ³
	102LRA, 17FLA, 240VAC	30x10 ³
	120LRA, 20FLA, 120VAC	30x10 ³
	1.5HP, 120VAC	30x10 ³
	3HP, 240VAC	30x10 ³
Factory ratings		
	gs for main terminals	
	agnetic blowout, 1 form X	
	A, 28VDC, resistive	100x10 ³
30.	A, 125VDC	100x10 ³
Mechanical endura	nce DC Coil, 1x10 ⁶ ops.; AC Coil	l 5x10⁵ ops.
A 111 O		
	Action Switch Contact Data	
Contact arrangeme	nt 1 form C (CO) 5A 120VAC 60Hz 255	
Baunn	50 EZUVAL 60H7 25	1

oomaat anangement	1 101111 0 (00)	
Rating	5A, 120VAC, 60Hz., 25°C	
Contact material	Ag	

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Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

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PRD Series Power Relay (Continued)

Coil	Data
0011	

	ita						
Coil voltage range			6 to 110VDC				
6 to 480VAC							
Coil insul	ation system	according UL	Class B				
Coil versions, DC coil							
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





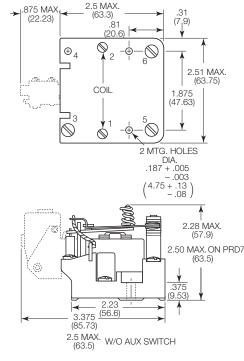


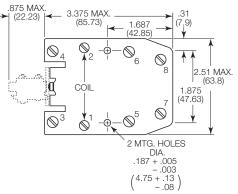
DC coil: -55°C to 80°C	
Category of environmental p	rotection
IEC 61810	RT0 - open relay
Terminal type	Screw, Quick connects, Box lugs
Weight	284g
Packaging/unit	tray/20 pcs., box/40pcs.

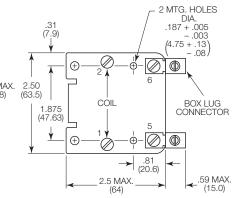
PRD-3_P and R

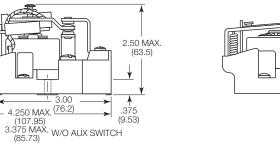
Accessories

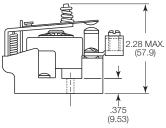
Product Code	Description
35D013	Metal dust cover











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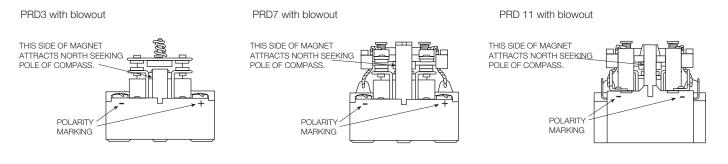
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PRD Series Power Relay (Continued)

Terminal assignment for models with magnetic blowout



Product code structure	Typical product code	PRD	-7	Α	Y	0	-120
Type PRD Open relay PRDA Open relay with aux. 1 form C (CO) snap-ac	tion switch						
Main contact arrangement			l				
1 1 form A (1 NO) 3 5 1 form C (1 CO) 7	1 form X (1 NO-DM)						
()	2 form A (2 NO) I 2 form C (2 CO)						
1) Code 7V is only available as a UL Recognized model, not UL Liste							
Coil input							
	DC						
Main contact material and type							
Y .312" (7.92mm) dia. Ag [25A max. rating]							
G .312" (7.92mm) dia. AgCdO [30A max. rating]	2						
F .312" (7.92mm) dia. AgCdO [50A max. rating]							
 H Ag with magnetic blowout [20A DC max. rating J AqCdQ with magnetic blowout [20A DC max. r 							
 J AgCdO with magnetic blowout [20A DC max. r N W stationary & AgCdO movable [25A max. ratii 							
P Ag [50A max. rating] ⁵⁾	ng ,						
R Ag with magnetic blow out [50A max. rating] ⁵)						
2) Available with Main contact arrangement code 1, 5, 7 or 11 only,							
3) Available with Main contact arrangement code 3, 7 or 11 only	· · · · · · · · · · · · · ·						
4) Available with Main contact arrangement code 1, 5, 7 or 11 only.							
5) Available with Main contact arrangement code 3 only, and Termin	ation code 4 only.						
Termination							
PRD types only							
0 #8-32 screw term. for main contacts, #6-32 scr	rew term. for coil.						
1 .250" (6.35mm) QC for main contacts and coil	(From) OC for soil						
 3 #8-32 screw term. for main contacts, .250" (6.3 4 Box lug term. which accept #6 - #14 wire for m 							
 6) Available with Main contact arrangement code 3 only, and Main contact arrangement code 3 only. 							
PRDA (with aux. switch) types only							
A #8-32 screw term. for main contacts, #6-32 sci	rew term, for coil, screw term, for aux, switc	h					
B .250" (6.35mm) QC for main contacts, coil and							
L Twin .250" (6.35mm) QC for main contacts, .25							
Coil voltage							-
Coil code: please refer to coil versions table							

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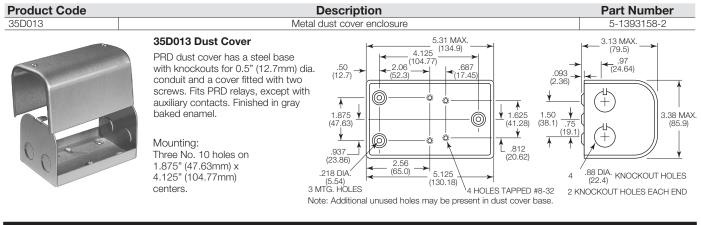
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PRD Series Power Relay (Continued)

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	1	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	1	1393128-5
PRD-5AY1-120			120010	QC	1-1393128-1
PRD-5AY0-240			240VAC	Screw	1393128-7
PRD-5DF0-12		AgCdO, 50A	12VDC		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			-	
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		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			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			110VDC	1	2-1423100-9
PRD-11DG0-12		AgCdO, 30A	12VDC	1	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-11DJ0-24		Agodo, mag biowoul	12 VDC	-	6-1393127-5
		Ay	24 VDC	_	
PRD-11DY0-24					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



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