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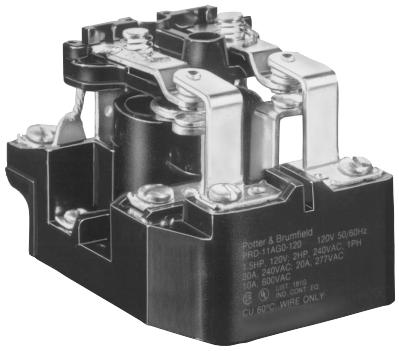
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Find the *Tyco Electronics / Potter and Brumfield PRD11DYO-24* at our website: *Click HERE*

PRD Series Power Relay

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



Typical applications
Industrial controls, lighting.

Approvals

UL E22575; CSA LR15734; VDE 40020133 (available only on PRD with DC coil and Termination code 1)
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	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

Type	Load	Cycles
UL 508[1)]		
Models with screws or quick connects for main terminals		
Code Y, Ag, 1 pole		
	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 pole		
	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	$100x10^3$

1) Any PRD relay deviating electrically or physically from the standard models in the table is not UL or CSA listed. All horsepower ratings are for single phase motors..

Contact ratings (continued)

Type	Load	Cycles
UL 508[1)]		
Models with screws or quick connects for main terminals		
Code F, AgCdO, 1 pole		
	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 pole		
	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 50A rating with contact code F, termination Code 0 or A is required.

Code H, Ag with magnetic blowout, 1 or 2 pole		
	20A, 125VDC	$100x10^3$
	1/3HP, 125VDC	$100x10^3$
Code J, AgCdO with magnetic blowout, 1 or 2 pole		
	20A, 125VDC	$100x10^3$
	1/3HP, 125VDC	$100x10^3$
Code N, W stationary with AgCdO movable, 1 or 2 pole		
	25A, 250VAC	$100x10^3$
	1HP, 125VAC	$100x10^3$
	2HP, 250VAC	$100x10^3$
UL 508[1)]		
Models with box lugs for main terminals		
Code P, Ag, 1 form X		
	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		
Models with box lugs for main terminals		
Code R, Ag with magnetic blowout, 1 form X		
	60A, 28VDC, resistive	$100x10^3$
	30A, 125VDC	$100x10^3$
Mechanical endurance	DC Coil, $1x10^6$ ops.; AC Coil $5x10^5$ ops.	

Auxiliary Snap-Action Switch Contact Data

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

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PRD Series Power Relay (Continued)

Coil Data

Coil voltage range	6 to 110VDC 6 to 480VAC
Coil insulation system according UL	Class B

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power 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 code	Rated voltage VAC	Operate voltage VAC	Release voltage VAC	Coil resistance Ω±15%	Rated coil power 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.

Insulation Data

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

Other Data

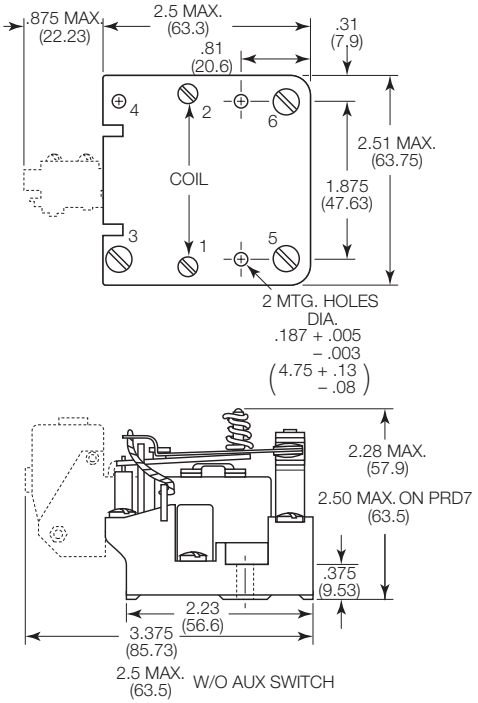
Material compliance:	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter
Ambient temperature	
AC coil: -55ºC to 45ºC	
DC coil: -55°C to 80°C	
Category of environmental protection	
IEC 61810	RT0 - open relay
Terminal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

Accessories

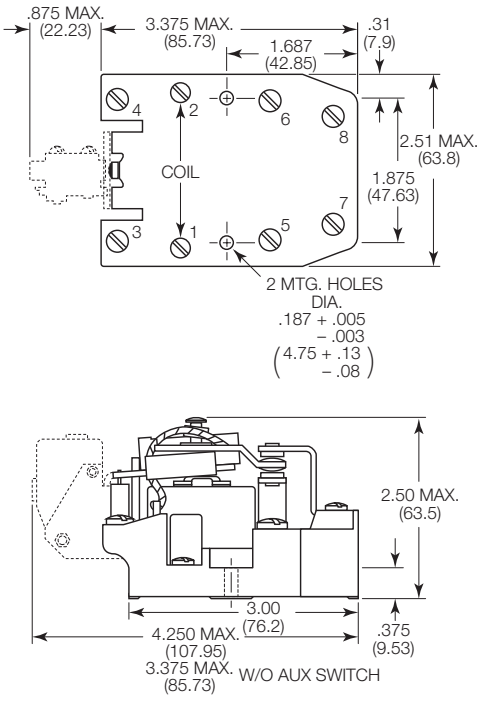
Product Code	Description
35D013	Metal dust cover

Dimensions

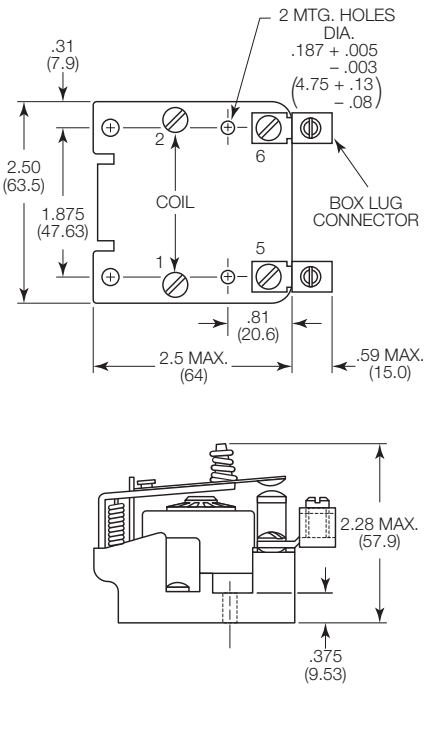
PRD/PRDA 1, 3, 5 and 7



PRD/PRDA 11



PRD-3_P and R



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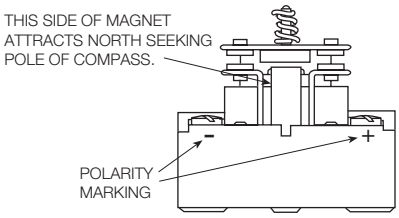
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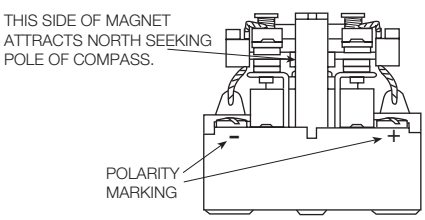
PRD Series Power Relay (Continued)

Terminal assignment for models with magnetic blowout

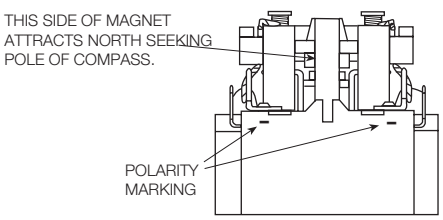
PRD3 with blowout



PRD7 with blowout



PRD 11 with blowout



Product code structure — Typical product code: **PRD -7 A Y 0 -120**

Type
- **PRD** Open relay
- **PRDA** Open relay with aux. 1 form C (CO) snap-action switch

Main contact arrangement
- **1** 1 form A (1 NO)
- **3** 1 form X (1 NO-DM)
- **5** 1 form C (1 CO)
- **7** 2 form A (2 NO)
- **7V** 2 form A (2 NO) with 3mm contact gap [1]
- **11** 2 form C (2 CO)

1) Code 7V is only available as a UL Recognized model, not UL Listed

Coil input
- **A** AC, 50/60Hz
- **D** DC

Main contact material and type
- **Y** .312" (7.92mm) dia. Ag [25A max. rating]
- **G** .312" (7.92mm) dia. AgCdO [30A max. rating]
- **F** .312" (7.92mm) dia. AgCdO [50A max. rating] [2]
- **H** Ag with magnetic blowout [20A DC max. rating] [3]
- **J** AgCdO with magnetic blowout [20A DC max. rating]
- **N** W stationary & AgCdO movable [25A max. rating] [4]
- **P** Ag [50A max. rating] [5]
- **R** Ag with magnetic blow out [50A max. rating] [5]

2) Available with Main contact arrangement code 1, 5, 7 or 11 only, and Termination code 0 or A 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 Termination code 4 only.

Termination

PRD types only
- **0** #8-32 screw term. for main contacts, #6-32 screw term. for coil.
- **1** .250" (6.35mm) QC for main contacts and coil (VDE approved Termination code)
- **3** #8-32 screw term. for main contacts, .250" (6.35mm) QC for coil.
- **4** Box lug term. which accept #6 - #14 wire for main contacts, #6-32 screw term. for coil. [6]

6) Available with Main contact arrangement code 3 only, and Main contact material code P or R only.

PRDA (with aux. switch) types only
- **A** #8-32 screw term. for main contacts, #6-32 screw term. for coil, screw term. for aux. switch
- **B** .250" (6.35mm) QC for main contacts, coil and aux. switch
- **L** Twin .250" (6.35mm) QC for main contacts, .250" (6.35mm) QC for coil and aux. switch

Coil voltage
Coil code: please 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		Ag	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				QC	1-1393128-1
PRD-5AY0-240			240VAC	Screw	1393128-7
PRD-5DF0-12		AgCdO, 50A	12VDC		2-1423100-4
PRD-5DY0-12		Ag			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		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		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

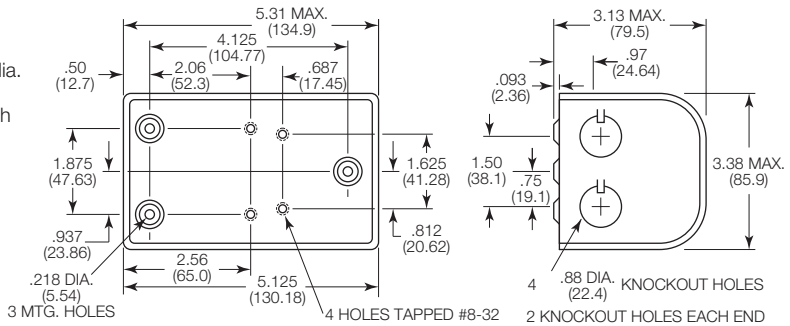
Product Code	Description	Part Number
35D013	Metal dust cover enclosure	5-1393158-2



35D013 Dust Cover

PRD dust cover has a steel base with knockouts for 0.5" (12.7mm) dia. conduit and a cover fitted with two screws. Fits PRD relays, except with auxiliary contacts. Finished in gray baked enamel.

Mounting:
Three No. 10 holes on 1.875" (47.63mm) x 4.125" (104.77mm) centers.



Note: Additional unused holes may be present in dust cover base.

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