

PRD Series Power Relay (Continued)

Coil Data

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

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$	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 $\Omega \pm 15\%$	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	100M Ω

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content
refer to the Product Compliance Support Center at
www.te.com/customer-support/rohssupportcenter

Ambient temperature

AC coil: -55°C to 45°C

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.

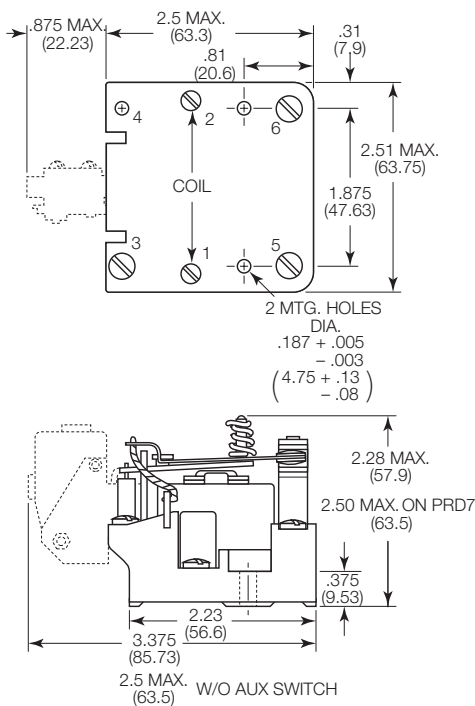
Accessories

Product Code Description

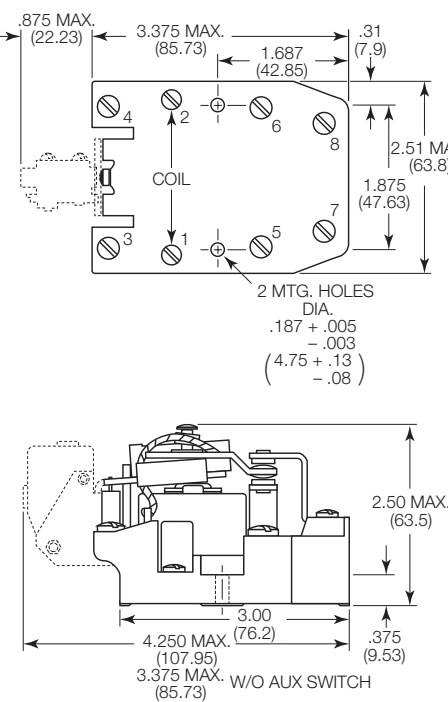
35D013 Metal dust cover

Dimensions

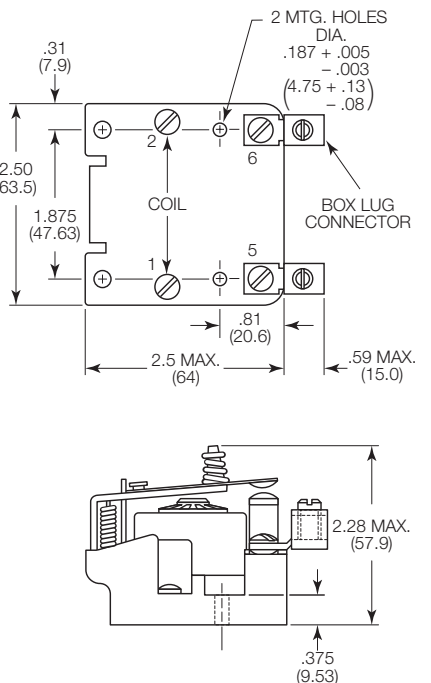
PRD/PRDA 1, 3, 5 and 7



PRD/PRDA 11



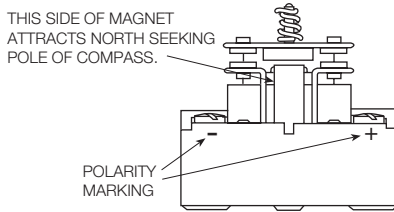
PRD-3_P and R



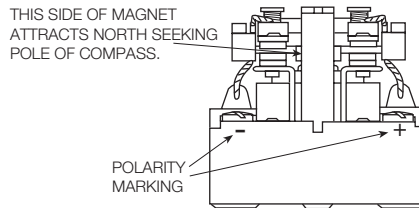
PRD Series Power Relay (Continued)

Terminal assignment for models with magnetic blowout

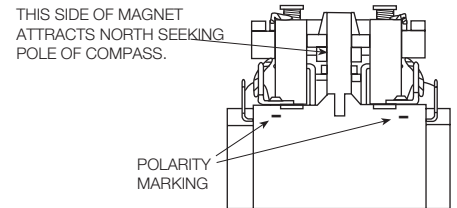
PRD3 with blowout



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
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

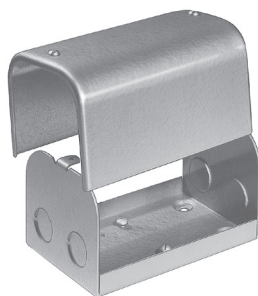
Coil code: please refer to coil versions table

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.

