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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## **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

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 loa	d 1A, 12VDC or 12VAC
Initial contact resistance	75m $Ω$ max.
Initial voltage drop	75mV
Frequency of operation	7200 ops/hr
Operate/releases time max.	40/20ms
Bounce time max.	10ms

Operate/releases time max.		40/20113	
Bounce time	e max.	10ms	
Contact rat	tings		
Type	Load		Cycles
UL 5081)			_
Models with	screws or quick connects	for main terminals	

Code Y, Ag, 1 pole		
	25A, 277VAC	100x10 <sup>3</sup>
	1HP, 120VAC	100x10 <sup>3</sup>
	2HP, 250VAC	100x10 <sup>3</sup>
	10A, 600VAC	100x10 <sup>3</sup>
	7A, 50VDC, resistive	100x10 <sup>3</sup>
Code Y, Ag, 2 pole		
	25A, 240VAC	100x10 <sup>3</sup>
	20A, 277VAC	100x10 <sup>3</sup>
	1HP, 120VAC	100x10 <sup>3</sup>
	2HP, 250VAC	100x10 <sup>3</sup>
	7A, 50VDC, resistive	100x10 <sup>3</sup>
	10A, 600VAC	100x10 <sup>3</sup>
Code G, AgCdO, 1	pole	
	30A, 277VAC, resistive	100x10 <sup>3</sup>
	1.5HP, 120VAC	100x10 <sup>3</sup>
	2HP, 250VAC	100x10 <sup>3</sup>
	10A, 600VAC	100x10 <sup>3</sup>

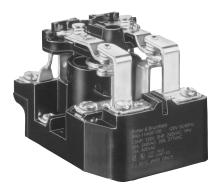
30A, 240VAC

20A, 277VAC

2HP, 250VAC

10A, 600VAC

1.5HP, 120VAC











s (continued) Load	
Load	
Load	Cycles
s or quick connects for main terminals	
50A, 240VAC, general purpose <sup>2)</sup>	20x10
	100x10
	100x10
	100x10
	100x10
	100/10
	20x10
	100x10
but rating with contact code r, termination code of	or A is required.
aganatia blawout 1 or 2 polo	
	100x10
	100x10
	100010
	100x10
	100x10
	100,40
	100x10
	100x10
2HP, 25UVAC	100x10
igs for main terminals	
	100 10
	100x10
	6x10
	6x10
	30x10
	30x10
	30x10
3HP, 240VAC	30x10
igs for main terminals	
nagnetic blowout, 1 form X	
DA, 28VDC, resistive	100x10
DA, 125VDC	100x10
ance DC Coil, 1x10 <sup>6</sup> ops.; AC Coil	5x10 <sup>5</sup> ops.
	nagnetic blowout, 1 form X DA, 28VDC, resistive DA, 125VDC

Auxiliary Snap-Action Switch Contact Data		
Contact arrangement 1 form C (CO)		
Rating	5A, 120VAC, 60Hz., 25°C	
Contact material	Aa	

Code G, AgCdO, 2 pole

100x10<sup>3</sup>

100x10<sup>3</sup>

100x10<sup>3</sup>

100x10<sup>3</sup>

100x10<sup>3</sup>

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..



## PRD Series Power Relay (Continued)

Coil Da	ata					
Coil volta	ige range		6	to 110VDC		
			6	to 480VAC		
Coil insul	ation 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 (	All figures are given for call without prespergization, at ambient temperature, 122°C					

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.

Insulation Data	
Initial dielectric strength	
between open contacts	2000V <sub>rms</sub>
between contact and coil	2000V <sub>rms</sub>
between adjacent contacts	2000V <sub>rms</sub>
Initial insulation resistance	···· <del>·</del>
between insulated elements	100ΜΩ

## **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 45°C
DC coil: -55°C to 80°C

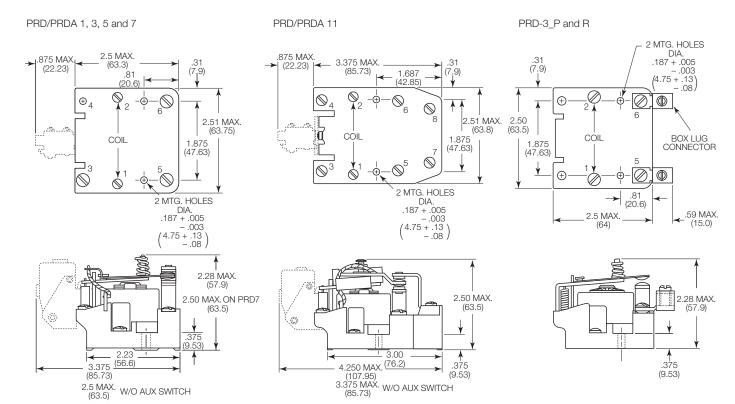
Category of environmental protection

IEC 61810	RTO - 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

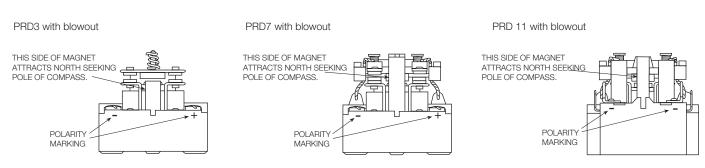
#### **Dimensions**

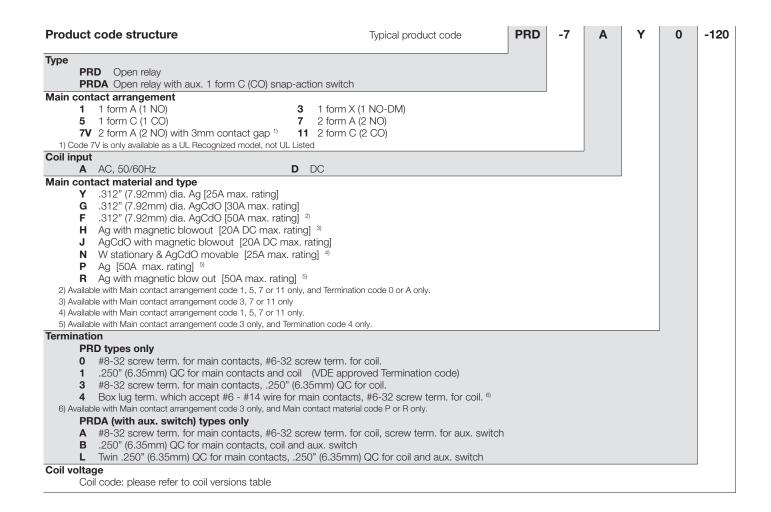




## PRD Series Power Relay (Continued)

#### Terminal assignment for models with magnetic blowout





Catalog and product data is subject to the

terms of the disclaimer and all chapters of

the 'Definitions' section, available at

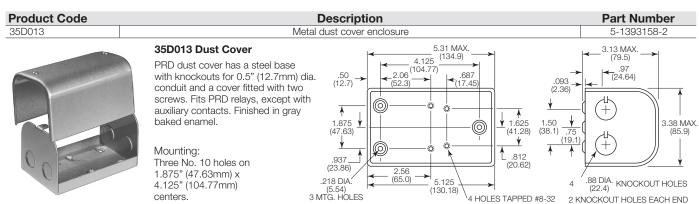
http://relays.te.com/definitions



## PRD Series Power Relay (Continued)

<b>Product Code</b>	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		Aq			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		7.9	120VAC		1393130-7
PRD-7AY0-240			240VAC		1-1393130-0
PRD-7AY3-120			120VAC	Screw / QC	1-1393130-2
PRD-7DG0-24		AqCdO, 30A	24VDC	Screw	1-1393130-6
PRD-7DH0-48		Ag, mag blowout	48VAC	GOICW	2-1393130-1
PRD-7DY0-12		Ag Ag	12VDC		2-1393130-8
PRD-7DY0-24		Ag	24VDC		2-1393130-9
PRD-11AF0-240	2 form C, 2 CO	AgCdO, 50A	240VAC		3-1423100-0
PRD-11AG0-24	2 101111 0, 2 00	AgCdO, 30A	24VAC		1-1393127-1
PRD-11AG0-120		Agodo, ooA	120VAC		1393127-9
PRD-11AG0-240			240VAC		1-1393127-2
PRD-11AH0-120		Ag, mag blowout	120VAC	-	1-1393127-2
PRD-11AY0-24		Ag, mag blowout	24VAC		2-1393127-9
PRD-11AY0-120		Ag	120VAC	-	2-1393127-6
PRD-11AY0-240			240VAC		
PRD-11AY0-240			480VAC	-	3-1393127-0 3-1393127-1
PRD-11DF0-12		AgCdO, 50A	12VDC		
		AgCdO, 50A	110VDC	_	2-1423100-2
PRD-11DF0-110 PRD-11DG0-12		AgCdO, 30A	12VDC		2-1423100-9
		AgCdO, SOA	24VDC	_	3-1393127-5
PRD-11DG0-24		A su ma a su la la cura unit		_	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		A = 0 = 10 = = =  -	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



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