

## **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;	

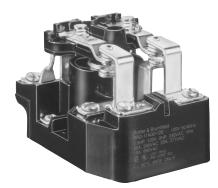
Models with all screw terminals are UL Listed. Others are UL Recognized. Technical data of approved types on request.

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	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

Contact ratin	gs	
Type	Load	Cycles
UL 508 <sup>1)</sup>		•
Models with so	crews or quick connects for main terminals	3
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, AgCd	IO, 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>
Code G, AgCd	IO, 2 pole	
	30A, 240VAC	100x10 <sup>3</sup>
	20A, 277VAC	100x10 <sup>3</sup>
	1.5HP, 120VAC	100x10 <sup>3</sup>
	2HP, 250VAC	100x10 <sup>3</sup>

 <sup>10</sup>A, 600VAC 100x10<sup>3</sup>

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	(COHIHAEA)	
Type	Load	Cycles
ÚL 508¹)		
Models with screws	or quick connects for main terminals	
Code F, AgCdO, 1 p		
	50A, 240VAC, general purpose <sup>2)</sup>	20x10
	30A, 277VAC, resistive	100x10
	1.5HP, 120VAC	100x10
	2HP, 250VAC	100x10
	10A, 600VAC	100x10
Code F, AgCdO, 2 p	oole	
	50A, 240VAC, general purpose <sup>2)</sup>	20x10
	30A, 240VAC	100x10
	20A, 277VAC	100x10
	1.5HP, 120VAC	100x10
	2HP, 250VAC	100x10
	10A, 600VAC	100x10
2) In order to achieve 50	A rating with contact code F, termination Code	0 or A is required.
Codo H. Aa with ma	agnetic blowout, 1 or 2 pole	
Code II, Ag Willi IIIa	20A, 125VDC	100x10
	1/3HP, 125VDC	100x10
Codo I AgCdO with	n magnetic blowout, 1 or 2 pole	100x10
Code J, AgCdO Will	20A, 125VDC	100x10
	1/3HP, 125VDC	100x10
Code N. W. stations	ry with AgCdO movable, 1 or 2 pole	100x10
Code IV, VV Stationa	25A, 250VAC	100/10
	1HP, 125VAC	100x10
		100x10
UL 508 <sup>1)</sup>	2HP, 250VAC	100x10
Models with box lug	o for main terminals	
Code P. Ag. 1 form		
ooder, Ag, Florin	50A, 277VAC, general purpose	100x10
	30A, 277VAC, ballast	6x10
	15A, 277VAC, tungsten	6x10
	102LRA, 17FLA, 240VAC	30x10
	120LRA, 20FLA, 120VAC	30x10
	1.5HP, 120VAC	30x10
	3HP, 240VAC	30x10
Factory ratings	31 IF, 240 VAC	30000
	s for main terminals	
	agnetic blowout, 1 form X	
	A, 28VDC, resistive	100x10
	A, 125VDC, resistive	100x10
307	7, 120100	100010
Mechanical endurar	nce DC Coil, 1x106 ops.; AC Co	nil 5v105 one

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



## PRD Series Power Relay (Continued)

Coil Da	ta				
Coil volta	ge range		6	to 110VDC	
			6	to 480VAC	
Coil insula	ation system	according UL		Class B	
Coil vers	ions, 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  $+23^{\circ}$ 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>ms</sub>
between adjacent contacts	2000V <sub>ms</sub>
Initial insulation resistance	
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

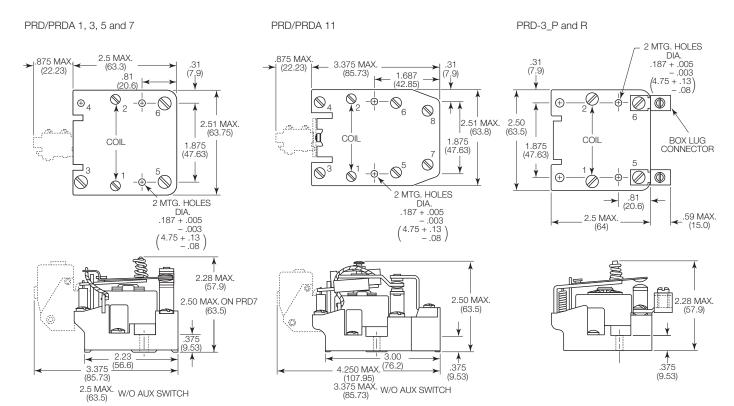
Category of environmental protection

IEC 61810	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

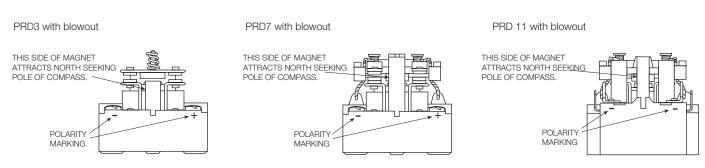
#### **Dimensions**

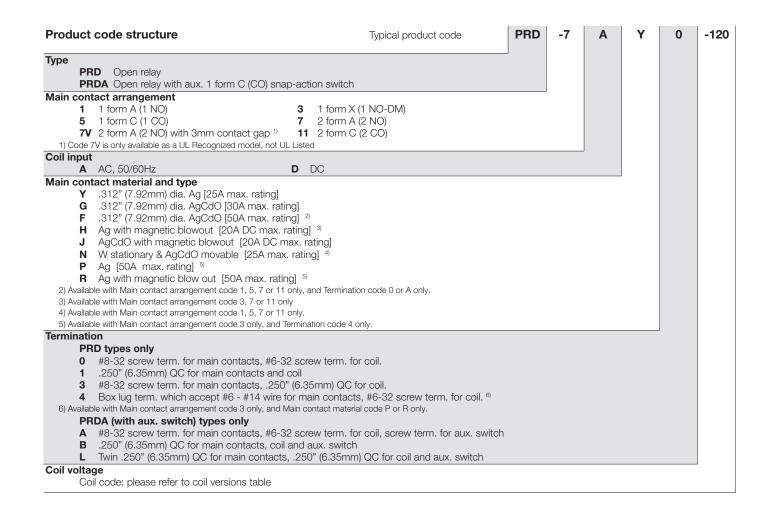




## PRD Series Power Relay (Continued)

#### 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

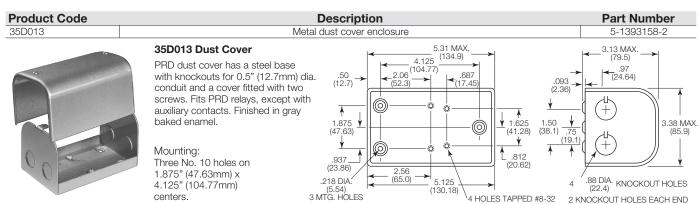
http://relays.te.com/definitions



# PRD Series Power Relay (Continued)

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		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		AgCdO, 30A	24VDC	Screw	1-1393130-6
PRD-7DH0-48		Ag, mag blowout	48VAC	Golew	2-1393130-1
PRD-7DY0-12		Ag	12VDC		2-1393130-8
PRD-7DY0-24		79	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		Ag000, 50A	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		
PRD-11DF0-12		AgCdO, 50A	110VDC	_	2-1423100-2
PRD-11DG0-110		AgCdO, 30A	12VDC		2-1423100-9
		AgCdO, 30A	24VDC	_	3-1393127-5
PRD-11DG0-24		A su ma a su la la constituta		_	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 =: O = 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.

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity: 1423100-5