

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)

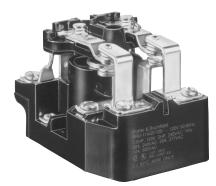
Models with all screw terminals are UL Listed. Others are UL Recognized. Technical data of approved types on request.

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 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

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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
Contact ratings	
Type Load	Cycles
UL 508 ¹⁾	

Contact ratin	gs	
Type	Load	Cycles
UL 5081)		
Models with so	crews 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, AgCo	IO, 1 pole	
_	30A, 277VAC, resistive	100x10 ³
	1.5HP, 120VAC	100x10 ³
	2HP, 250VAC	100x10 ³
	10A, 600VAC	100x10 ³
Code G, AgCo	IO, 2 pole	
_	30A, 240VAC	100x10 ³
	20A, 277VAC	100x10 ³
	1.5HP, 120VAC	100x10 ³
	2HP, 250VAC	100x10 ³
	10A, 600VAC	100x10 ³

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..











	<u> </u>	
Contact rating	gs (continued)	
Туре	Load	Cycles
ÚL 508¹)		
Models with screv	ws or quick connects for main terminals	
Code F, AgCdO,		
, 5,	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,		100×10
Code I, Agodo,	50A, 240VAC, general purpose ²⁾	20x10 ³
	30A, 240VAC, general purpose-7	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 C	or A is required.
0 1 11 4 11		
Code H, Ag with	magnetic blowout, 1 or 2 pole	
	20A, 125VDC	100x10 ³
	1/3HP, 125VDC	100x10 ³
Code J, AgCdO v	with magnetic blowout, 1 or 2 pole	
	20A, 125VDC	100x10 ³
	1/3HP, 125VDC	100x10 ³
Code N, W statio	nary with AgCdO movable, 1 or 2 pole	
	25A, 250VAC	100x10 ³
	1HP, 125VAC	100x10 ³
	2HP, 250VAC	100x10 ³
UL 5081)		
Models with box	lugs for main terminals	
Code P. Aq. 1 for		
, 0,	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
Footow, rotingo	SI IF, 240VAC	30000
Factory ratings	luga for main terminals	
	lugs for main terminals	
	magnetic blowout, 1 form X	100 100
	60A, 28VDC, resistive	100x10 ³
	BOA, 125VDC	100x10 ³
	50.0 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
Mechanical endu	rance DC Coil, 1x10 ⁶ ops.; AC Coil	5x10 ⁵ ops.
A ! I! O	. A - 1 O 1 - 1 - O 1 1 D - 1 -	

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 insulation 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
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Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VAC	VAC	VAC	$\Omega \pm 15\%$	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 _{rms}
between contact and coil	2000V _{rms}
between adjacent contacts	2000V _{rms}
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

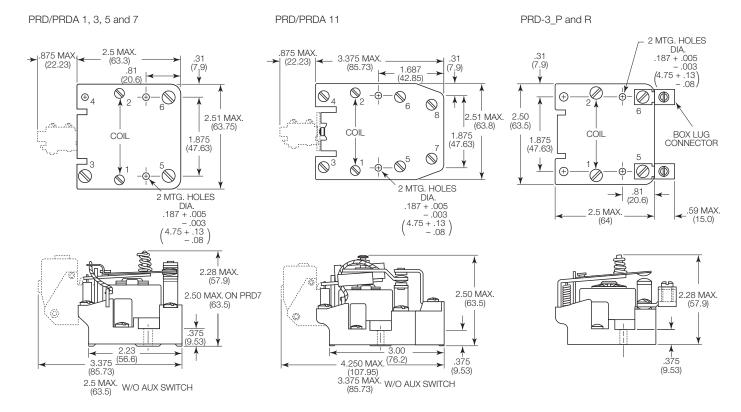
Category of environmental protection

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		
	Product Code	Description
35D013 Metal dust cover	35D013	Metal dust cover

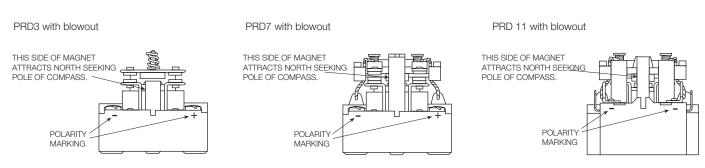
Dimensions

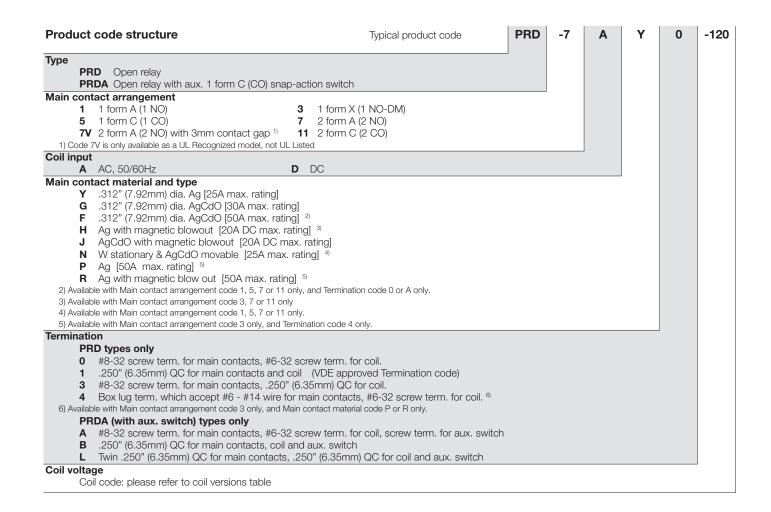




PRD Series Power Relay (Continued)

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

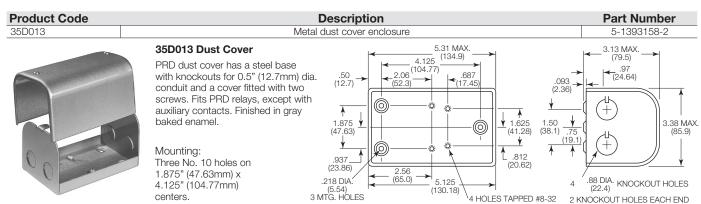
http://relays.te.com/definitions



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		Aq	12VDC		9-1393127-5
PRD-3DY0-24		Ĭ Ĭ	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		7.9	24VDC		1-1393128-7
PRD-7AG0-120	2 form A, 2 NO	AgCdO, 30A	120VAC		9-1393129-5
PRD-7AY0-24	2 1011171, 2 140	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	Gelew	2-1393130-1
PRD-7DY0-12		Ag, mag blowout 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-11AG0-24		Agodo, soa	120VAC	-	1393127-1
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-11AY0-24		Ag	120VAC	_	2-1393127-9
			240VAC		
PRD-11AY0-240				_	3-1393127-0
PRD-11AY0-480		A O -I O - F O A	480VAC		3-1393127-1
PRD-11DF0-12		AgCdO, 50A	12VDC	_	2-1423100-2
PRD-11DF0-110		A = Q = IQ QQ A	110VDC	_	2-1423100-9
PRD-11DG0-12		AgCdO, 30A	12VDC		3-1393127-5
PRD-11DG0-24		A	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		1 0 10	110 VDC	1	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.