



PRD series

10 TO 50 AMP HEAVY DUTY AC OR DC POWER RELAY

Ⓛ File E22575 (Models With All Screw Terminals)

Ⓡ File E22575 (All Others)

Ⓢ File 15734

△ VDE-REG

AUXILIARY SNAP-ACTION SWITCH

Arrangements: 1 Form C (SPDT).

Rating: 5 amps at 120VAC, 60 Hz. @ 25°C.

Material: Silver.

FEATURES

- Contact ratings to 50 amps.
- Magnetic blowouts available for switching DC loads.
- Arrangements to DPDT.
- SPDT auxiliary switch available.
- Replaces PR series.

CONTACT DATA @ 25 C

Arrangements: Available to 2 Form C (DPDT). See ordering information table.

Ratings: See UL contact rating table.

Material: Silver and silver-cadmium oxide standard. Other materials available for special applications.

Expected Life: 100,000 operations at rated loads @25°C. Contact life increases at reduced loads or with appropriate arc suppression.

UL/CSA CONTACT RATINGS

Type	Supply		Contact Ratings
	AC	DC	
PRD 1,3,5	AC	DC	25 amps @ 277VAC 1 HP at 120VAC 2 HP at 250VAC 10 amps at 600VAC 7 amps at 50VDC Res.
	AY	DY	
PRD 1,3,5	AG	DG	30 amps at 277VAC Res. 1.5 HP at 120VAC 2HP at 250VAC 10 amp at 600VAC
PRD 7,11	AC	DC	25 amps at 240VAC 20 amps at 277VAC 1HP at 120VAC 2HP at 250VAC 7 amps at 50VDC Res. 10 amps at 600VAC
	AY	DY	
PRD 7,11	AG	DG	30 amps at 240VAC 20 amps at 277VAC 1.5 HP at 120VAC 2 HP at 250VAC 10 amps at 600VAC
PRD 3,7,11	AH	DH	20 amp at 125VDC 1/3 HP at 125VDC
	AJ	DJ	

UL RECOGNIZED LOAD/LIFE PARAMETERS FOR 50 AMP PRD

Type	Contact Ratings	Minimum Life
PRD3AP4	50 Amps, 277VAC max., General Purpose	100,000 Cycles
PRD3DP4	30 Amps, 277VAC max., Ballast	6,000 Cycles
	15 Amps, 277VAC max., Tungsten	6,000 Cycles
	102 LRA, 17 FLA, 240VAC	30,000 Cycles
	120 LRA, 20 FLA, 120VAC	30,000 Cycles
	1.5 HP at 120VAC	30,000 Cycles
	3 HP at 240VAC	30,000 Cycles

Note: 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

DC FACTORY CONTACT RATINGS

Type	Contact Ratings
PRD3AR4	60 Amps, 28VDC Res.
PRD3DR4	30 Amps, 125VDC Res.

INITIAL DIELECTRIC STRENGTH

Initial Breakdown Voltage: 2,000V rms minimum between all elements and ground. (2,200V rms on 600V ratings.)

COIL DATA @ 25 C

Voltage: From 6 to 220VDC, and 6 to 480VAC.

Resistance: See coil data table.

Nom. Power: DC coils: -2.0 watts @ 25°C.

AC coils: - 9.8VA @ 25°C.

Max Power: DC coils: - 8.0 watts @ 25°C.

Duty Cycle: Continuous.

Initial Insulation Resistance: 100 megohms, minimum.

COIL DATA

"DY" AND "DG" DC COILS			"AY" AND "AG" AC COILS (50-60HZ.)		
Nominal Volts	Resistance In Ohms ±10% @ 25°C	Nominal DC Current In Milliamps	Nom. Volts	DC Resis. In Ohms ±15% @ 25°C	Nominal AC Current In Milliamps
6	18	333	6	.86	1600
12	71	169	12	3.2	820
24	288	84	24	12.0	410
110	6050	18.2	120	290	85
220	use 110V relay with approx. 6,000 ohm 5W wire-wound		240	1200	43
			480	4500	22

OPERATE DATA @ +25 C

Must-Operate Voltage: DC: 75% of nominal voltage @ 25°C.

AC: 85% of nominal voltage @ 25°C.

ENVIRONMENTAL DATA

Temperature Range: AC: -55°C to +45°C

DC: -55°C to +80°C

MECHANICAL DATA

Mounting: Two .187"(4.75mm) diameter holes on 1.875" (47.63 mm) centers.

Termination: See ordering information tables for various options.

Enclosure: Metal dust cover, 35D013, available. Order separately.

Weight: 10 oz. (284 g) approximately.