

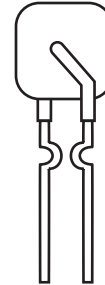
Poly Switch PPTC (Polymeric Positive Temperature Coefficient) Resettable Fuse Capacitor Type PS30

Δ Feature:

- Direct Fuse Replacement in DC Circuits
- Auto Reset (when power is cycled)
- Crossover with Raychem and Bourns

Δ Application:

- Energy-Saving Lamps, Ballast, Loudspeakers, Power Supply,
- Motor, Fans, Compressor and other power related applications.



Δ Electrical Characteristics

Model	Vmax (V)	Ro (Ω)	IT (A)	TT (S)	IH (A)	Imax (A)	τc (S)
PS30-090	30	0.07-0.12	1.80	≤7.1	0.90	40	≤60
PS30-110	30	0.05-0.10	2.20	≤6.6	1.10	40	≤60
PS30-135	30	0.04-0.08	2.70	≤7.3	1.35	40	≤60
PS30-160	30	0.03-0.07	3.20	≤8.0	1.60	40	≤60
PS30-185	30	0.03-0.06	3.70	≤8.7	1.85	40	≤60
PS30-250	30	0.02-0.04	5.00	≤10.3	2.50	40	≤60
PS30-300	30	0.02-0.05	6.00	≤10.8	3.00	40	≤60
PS30-400	30	0.01-0.03	8.00	≤12.7	4.00	40	≤60
PS30-500	30	0.01-0.03	10.00	≤14.5	5.00	40	≤60
PS30-600	30	0.005-0.02	12.00	≤16.0	6.00	40	≤60
PS30-700	30	0.005-0.02	14.00	≤17.5	7.00	40	≤60
PS30-800	30	0.005-0.02	16.00	≤18.8	8.00	40	≤60
PS30-900	30	0.005-0.01	18.00	≤20*	9.00	40	≤60

* Devices tested at 40A. The others tested at 5IH.

Legend

IH(A): Hold current: maximum current at which the device will not trip at 25°C still air

IT(A): Tripping current: minimum current at which the device will trip at 25°C under specified conditions.

TT(S): Maximum time to trip at specified current. (generally at 5IH)

Vmax(V): Maximum device operating voltage.

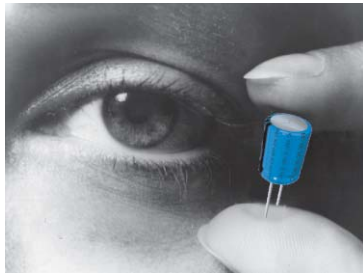
Imax(A): Maximum fault current device can withstand without damage at rated voltage.

Pdtyp(W): Typical power dissipation: Typical amount of power dissipated by the device when in tripped state air environment.

Ro(Ω): Minimum-maximum device resistance at 25° prior to tripping.

Δ Typical T-I Derating Form

Model	Ambient Temperature (°C)								
	-40	-20	0	25	40	50	60	70	85
PS30-090	1.40	1.25	1.10	0.90	0.75	0.69	0.65	0.60	0.50
PS30-110	1.75	1.52	1.33	1.10	0.99	0.90	0.80	0.73	0.63
PS30-135	2.15	1.94	1.70	1.35	1.20	1.14	1.00	0.90	0.81
PS30-160	2.49	2.21	1.94	1.60	1.42	1.31	1.19	1.03	0.88
PS30-185	2.87	2.59	2.28	1.85	1.63	1.52	1.33	1.21	1.05
PS30-250	3.82	3.44	3.03	2.50	2.17	2.00	1.81	1.60	1.39
PS30-300	4.55	4.10	3.60	3.00	2.65	2.51	2.24	2.01	1.74
PS30-400	6.00	5.40	4.74	4.00	3.47	3.28	2.82	2.63	2.26
PS30-500	7.44	6.68	5.80	5.00	4.30	4.03	3.58	3.22	2.77
PS30-600	8.90	7.99	7.08	6.00	5.13	4.82	4.27	3.84	3.30
PS30-700	10.35	9.30	8.21	7.00	5.95	5.58	4.96	4.46	3.84
PS30-800	11.60	10.60	9.35	8.00	6.79	6.36	5.64	5.07	4.36
PS30-900	13.25	11.90	10.49	9.00	7.53	7.12	6.32	5.69	4.88



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Δ Dimensions

Model	Amax (mm)	Bmax (mm)	Cmax (mm)	Dtyp (mm)	Diameter of Lead (mm)	Fig.
PS30-090	6.5	14.0	3.1	5.1	Φ0.6	1
PS30-110	8.0	14.0	3.1	5.1	Φ0.6	1
PS30-135	9.0	14.0	3.1	5.1	Φ0.6	1
PS30-160	10.0	17.0	3.1	5.1	Φ0.6	1
PS30-185	11.0	17.0	3.1	5.1	Φ0.6	1
PS30-250	12.0	19.0	3.1	5.1	Φ0.6	1
PS30-300	12.0	21.0	3.1	5.1	Φ0.8	2
PS30-400	14.5	23.0	3.1	5.1	Φ0.8	2
PS30-500	14.5	28.0	3.1	10.2	Φ0.8	2
PS30-600	17.0	28.0	3.1	10.2	Φ0.8	2
PS30-700	19.5	30.0	3.1	10.2	Φ0.8	2
PS30-800	22.0	32.0	3.1	10.2	Φ0.8	2
PS30-900	24.5	36.5	3.1	10.2	Φ0.8	2

Fig. 1

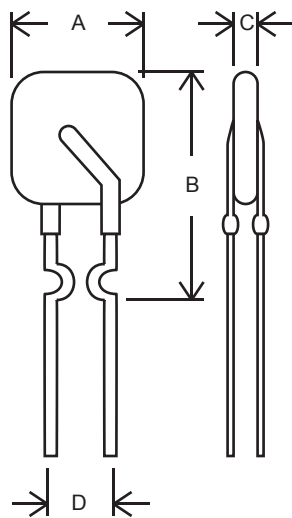


Fig. 2

