

LP60 Series

Electric Feature

Part Number	I_H (Amps)	I_T (Amps)	Maximum time-to-trip 5 times I_H (s)	V_{max} (Volts)	I_{max} (Amps)	Pd_{max} (Watts)	R_{min} (Ω)	R_{max} (Ω)
LP60-010	0.10	0.20	4.0	60	40	0.40	2.50	4.50
LP60-017	0.17	0.34	3.0	60	40	0.48	2.00	3.20
LP60-020	0.20	0.40	2.2	60	40	0.41	1.50	2.84
LP60-025	0.25	0.50	2.5	60	40	0.45	1.00	1.95
LP60-030	0.30	0.60	3.0	60	40	0.49	0.76	1.36
LP60-040	0.40	0.80	3.8	60	40	0.56	0.52	0.86
LP60-050	0.50	1.00	4.0	60	40	0.77	0.41	0.77
LP60-065	0.65	1.30	5.3	60	40	0.90	0.27	0.48
LP60-075	0.75	1.50	6.3	60	40	0.93	0.18	0.40
LP60-090	0.90	1.80	7.2	60	40	1.00	0.14	0.31
LP60-110	1.10	2.20	8.2	60	40	1.51	0.14	0.25
LP60-135	1.35	2.70	9.6	60	40	1.71	0.12	0.19
LP60-160	1.60	3.20	11.4	60	40	1.91	0.09	0.14
LP60-185	1.85	3.70	12.6	60	40	2.11	0.08	0.12
LP60-250	2.50	5.00	15.6	60	40	2.51	0.05	0.08
LP60-300	3.00	6.00	19.8	60	40	2.80	0.04	0.06
LP60-375	3.75	7.50	24.0	60	40	3.20	0.03	0.05

I_H = Hold current-maximum current at which the device will not trip at 25°C still air.

I_T = Trip current-minimum current at which the device will always trip at 25°C still air.

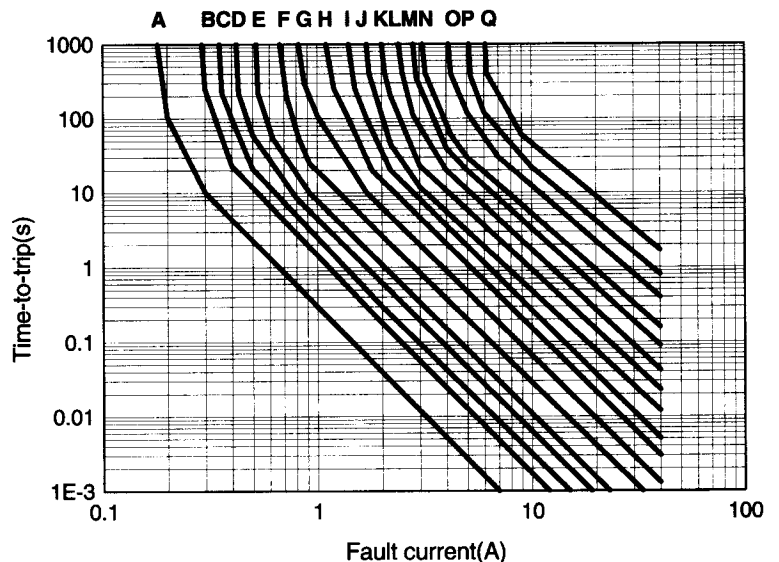
V_{max} = Maximum voltage device can withstand without damage at rated current.

I_{max} = Maximum fault current device can withstand without damage at rated voltage.

Pd = Power dissipated from device when in the tripped state in 25°C still air environment.

Typical Time to Trip at 20°C

- A=LP60-010
- B=LP60-017
- C=LP60-020
- D=LP60-025
- E=LP60-030
- F=LP60-040
- G=LP60-050
- H=LP60-065
- I=LP60-075
- J=LP60-090
- K=LP60-110
- L=LP60-135
- M=LP60-160
- N=LP60-185
- O=LP60-250
- P=LP60-300
- Q=LP60-375



LP60 Series

📖 Thermal Derating Chart I hold Versus Temperature (Amps)

Part Number	Maximum ambient operating temperatures(°C)								
	-40	-20	0	25	40	50	60	70	85
LP60-010	0.18	0.15	0.13	0.10	0.08	0.07	0.06	0.05	0.03
LP60-017	0.28	0.24	0.20	0.17	0.14	0.12	0.10	0.09	0.06
LP60-020	0.34	0.29	0.25	0.20	0.16	0.14	0.13	0.10	0.07
LP60-025	0.42	0.36	0.31	0.25	0.20	0.18	0.16	0.12	0.09
LP60-030	0.52	0.44	0.38	0.30	0.24	0.22	0.18	0.14	0.10
LP60-040	0.66	0.57	0.50	0.40	0.32	0.29	0.24	0.20	0.14
LP60-050	0.83	0.74	0.63	0.50	0.41	0.36	0.30	0.25	0.18
LP60-065	1.10	0.95	0.82	0.65	0.53	0.47	0.40	0.33	0.24
LP60-075	1.26	1.11	0.95	0.75	0.61	0.54	0.45	0.39	0.28
LP60-090	1.52	1.30	1.15	0.90	0.73	0.65	0.55	0.47	0.33
LP60-110	1.82	1.60	1.35	1.10	0.89	0.79	0.65	0.55	0.40
LP60-135	2.20	1.91	1.65	1.35	1.09	0.96	0.80	0.68	0.50
LP60-160	2.60	2.30	1.95	1.60	1.30	1.13	1.00	0.80	0.60
LP60-185	3.00	2.63	2.30	1.85	1.50	1.33	1.12	0.92	0.67
LP60-250	4.05	3.58	3.02	2.50	2.02	1.80	1.55	1.30	0.90
LP60-300	4.82	4.16	3.62	3.00	2.43	2.16	1.85	1.50	1.09
LP60-375	6.02	5.19	4.50	3.75	3.02	2.68	2.30	1.95	1.39

📖 Package

100~500 pcs/per sack, according to the product dimension

📖 Product List of SUN to Raychem and Bourns Counterpart

SUN	Raychem	Bourns
LP60 series	RXE series	MF-R series
LP60-010	RXE010	MF-R010
LP60-017	RXE017	MF-R017
LP60-020	RXE020	MF-R020
LP60-025	RXE025	MF-R025
LP60-030	RXE030	MF-R030
LP60-040	RXE040	MF-R040
LP60-050	RXE050	MF-R050
LP60-065	RXE065	MF-R065
LP60-075	RXE075	MF-R075
LP60-090	RXE090	MF-R090
LP60-110	RXE110	MF-R110
LP60-135	RXE135	MF-R135
LP60-160	RXE160	MF-R160
LP60-185	RXE185	MF-R185
LP60-250	RXE250	—
LP60-300	RXE300	—
LP60-375	RXE375	—

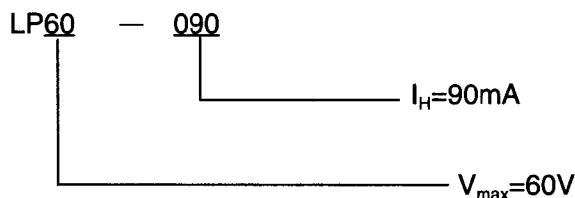
LP60 Series

Dimension (mm)



Part Number	A Max	B Max	C Typical	D Min	E Max
LP60-010	7.40	12.70	5.0	8.0	3.0
LP60-017	7.40	12.70	5.0	8.0	3.0
LP60-020	7.40	12.20	5.0	8.0	3.0
LP60-025	7.40	12.70	5.0	8.0	3.0
LP60-030	7.40	13.00	5.0	8.0	3.0
LP60-040	7.60	13.50	5.0	8.0	3.0
LP60-050	7.90	13.70	5.0	8.0	3.0
LP60-065	9.70	14.50	5.0	8.0	3.0
LP60-075	10.40	15.20	5.0	8.0	3.0
LP60-090	11.70	15.80	5.0	8.0	3.0
LP60-110	13.00	18.00	5.0	8.0	3.0
LP60-135	14.50	19.60	5.0	8.0	3.0
LP60-160	16.30	21.30	5.0	8.0	3.0
LP60-185	17.80	22.90	5.0	8.0	3.0
LP60-250	21.30	26.40	10.2	8.0	3.0
LP60-300	24.90	30.00	10.2	8.0	3.0
LP60-375	28.50	33.50	10.2	8.0	3.0

Part Number



Test

Item	Testing Condition	Results
Appearance	Visualization	Qualified
Resistance under zero power	25°C , Still air condition	$R_{\text{min}} \leq R \leq R_{\text{max}}$
I_h	Hold current, 1 hour	No action
Over current trip features	25°C , Set current	$t \leq \text{Max trip time}$
Trip cycle life	V_{max} , I_{max} , 100times cycles	No burning, No crack
Trip endurance	V_{max} , 2 hours	No burning, No crack