

LP30 Series

Electric Features

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)
LP30-090	0.90	1.80	5.9	30	40	0.60	0.07	0.12
LP30-110	1.10	2.20	6.6	30	40	0.70	0.05	0.10
LP30-135	1.35	2.70	7.3	30	40	0.81	0.04	0.08
LP30-160	1.60	3.20	8.0	30	40	0.90	0.03	0.07
LP30-185	1.85	3.70	8.7	30	40	1.00	0.03	0.06
LP30-250	2.50	5.00	10.3	30	40	1.21	0.02	0.04
LP30-300	3.00	6.00	10.8	30	40	2.01	0.02	0.05
LP30-400	4.00	8.00	12.7	30	40	2.51	0.01	0.03
LP30-500	5.00	10.00	14.5	30	40	3.01	0.01	0.03
LP30-600	6.00	12.00	16.0	30	40	3.51	0.005	0.02
LP30-700	7.00	14.00	17.5	30	40	3.80	0.005	0.02
LP30-800	8.00	16.00	18.8	30	40	4.00	0.005	0.02
LP30-900	9.00	18.00	20.0	30	40	4.21	0.005	0.01

I_H = Hold current-maximum current at which the device will not trip at 20°C still air.

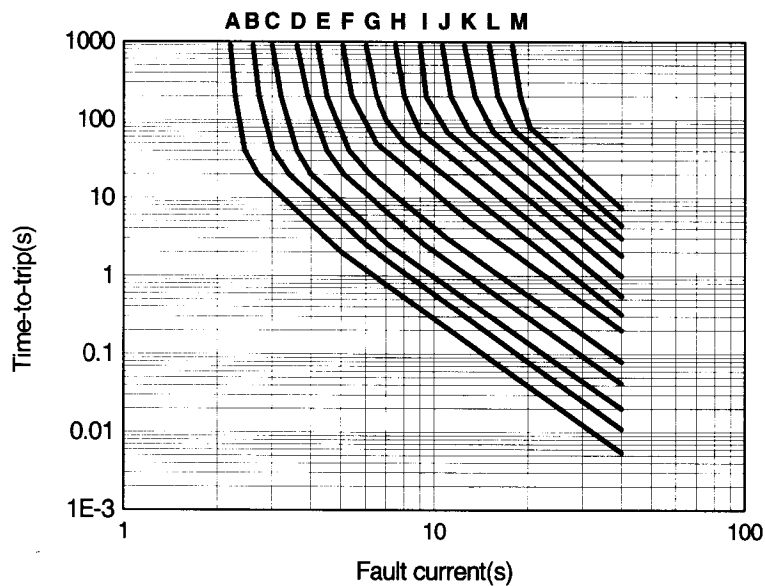
I_T = Trip current-minimum current at which the device will always trip at 20°C still air.

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

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

Pd = Power dissipated from device when in the tripped state in 20°C still air environment.

Typical Time to Trip at 20°C



A=LP30-090

B=LP30-110

C=LP30-135

D=LP30-160

E=LP30-185

F=LP30-250

G=LP30-300

H=LP30-400

I=LP30-500

J=LP30-600

K=LP30-700

L=LP30-800

M=LP30-900

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📖 Thermal Derating Chart I Hold Versus Temperature (Amps)

Part Number	Maximum Ambient Operating Temperatures (°C)								
	-40	-20	0	25	40	50	60	70	85
LP30-090	1.40	1.25	1.10	0.90	0.75	0.69	0.65	0.60	0.50
LP30-110	1.75	1.52	1.33	1.10	0.99	0.90	0.80	0.73	0.63
LP30-135	2.15	1.94	1.70	1.35	1.20	1.14	1.00	0.90	0.81
LP30-160	2.49	2.21	1.94	1.60	1.42	1.31	1.19	1.03	0.88
LP30-185	2.87	2.59	2.28	1.85	1.63	1.52	1.33	1.21	1.05
LP30-250	3.82	3.44	3.03	2.50	2.17	2.00	1.81	1.59	1.39
LP30-300	4.55	4.10	3.60	3.00	2.65	2.51	2.24	2.01	1.74
LP30-400	6.00	5.40	4.74	4.00	3.47	3.28	2.82	2.63	2.26
LP30-500	7.44	6.68	5.80	5.00	4.30	4.03	3.58	3.22	2.77
LP30-600	8.90	7.99	7.08	6.00	5.13	4.82	4.27	3.84	3.30
LP30-700	10.35	9.30	8.21	7.00	5.95	5.58	4.96	4.46	3.84
LP30-800	11.60	10.60	9.35	8.00	6.79	6.36	5.64	5.07	4.36
LP30-900	13.25	11.90	10.49	9.00	7.53	7.12	6.32	5.69	4.88

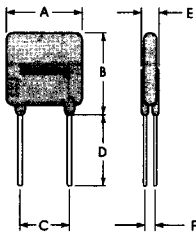
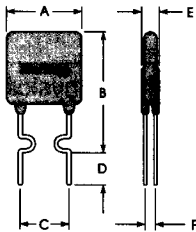
📖 Package

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

📖 Product List of SUN to Raychem and Bourns Counterpart

SUN	Raychem	Bourns
LP30 series	RUE series	MF-R series
LP30-090	RUE090	MF-R090-0-009
LP30-110	RUE110	—
LP30-135	RUE135	—
LP30-160	RUE160	—
LP30-185	RUE185	—
LP30-250	RUE250	MF-R250
LP30-300	RUE300	MF-R300
LP30-400	RUE400	MF-R400
LP30-500	RUE500	MF-R500
LP30-600	RUE600	MF-R600
LP30-700	RUE700	MF-R700
LP30-800	RUE800	MF-R800
LP30-900	RUE900	MF-R900

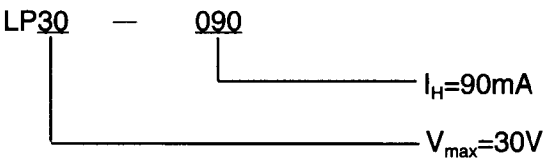
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📖 Dimensions (mm)

Part Number	A Max	B Max	C Typical	D Min	E Max
LP30-090	6.60	12.20	5.1	7.6	3.0
LP30-110	6.60	12.20	5.1	7.6	3.0
LP30-135	6.60	12.20	5.1	7.6	3.0
LP30-160	8.90	12.70	5.1	7.6	3.0
LP30-185	10.20	15.70	5.1	7.6	3.0
LP30-250	11.40	17.30	5.1	7.6	3.0
LP30-300	11.40	18.30	5.1	7.6	3.0
LP30-400	14.00	20.10	5.1	7.6	3.0
LP30-500	14.00	24.90	10.2	7.6	3.0
LP30-600	16.50	24.90	10.2	7.6	3.0
LP30-700	19.15	26.70	10.2	7.6	3.0
LP30-800	21.60	29.20	10.2	7.6	3.0
LP30-900	24.10	29.70	10.2	7.6	3.0

📖 Part Number



📖 Test

Item	Testing Condition	Results
Appearance	Visualization	Qualified
Resistance under zero power	25℃ , Still air condition	$R_{min} \leq R \leq R_{max}$
I_h	Hold current, 1 hour	No action
Over current trip features	25℃ , Set current	$t \leq \text{Max trip time}$
Trip cycle' life	V_{max} , I_{max} , 100 times cycles	No burning, No crack
Trip endurance	V_{max} , 2 hours	No burning, No crack