

Performance Specification

Model	I _H (A)	I _T (A)	V _{max}	I _{max}	P _d	Maximum Time-to-Trip		Resistance (mΩ)	
			V _(DC)	A	W	Current (A)	Time (S)	R _{min}	R _{max}
JK16-010(T)	0.1	0.3	16	100	0.38	0.5	5	1500	7500
JK16-025(T)	0.25	0.5	16	100	0.45	1.25	5	500	1950
JK16-030(T)	0.3	0.6	16	100	0.49	1.5	5	300	700
JK16-050(T)	0.5	1.0	16	100	0.56	2.5	5	200	500
JK16-075(T)	0.75	1.5	16	100	0.72	3.75	5	100	320
JK16-090(T)	0.9	1.8	16	100	0.83	4.5	5	90	180
JK16-110(T)	1.1	2.2	16	100	0.94	5.5	5	60	150
JK16-135(T)	1.35	2.7	16	100	1.2	6.75	5	40	130
JK16-160(T)	1.6	3.2	16	100	1.4	8	5	40	110
JK16-200(T)	2	4	16	100	2.2	6	15	35	75
JK16-300	3	6	16	100	2.3	9	15	20	60
JK16-400	4	8	16	100	2.4	12	15	20	40
JK16-500	5	10	16	100	2.6	15	15	14	25
JK16-600	6	12	16	100	2.8	18	15	10	21
JK16-700	7	14	16	100	3.0	21	15	8	15
JK16-800	8	16	16	100	3.0	24	15	6	13
JK16-900	9	18	16	100	3.3	27	25	4	12
JK16-1000	10	20	16	100	3.7	30	30	4	11
JK16-1100	11	22	16	100	3.7	33	30	3	9
JK16-1200	12	24	16	100	4.2	36	30	3	8
JK16-1300	13	26	16	100	4.2	39	50	3	8
JK16-1400	14	28	16	100	4.2	40	50	3	7

I_H=Hold current:Maximum current at which the device will not interrupt in 25°C still air.

I_T=Trip current:Minimum current at which the device from low resistance to high resistance in 25°C still air.

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

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

Maximum Time-to-trip:Maximum time to trip at assigned current.

P_d=Typical power dissipation:Typical amount of power dissipated from the device when in 25°C still air environment.

R_{min}=Minimum resistance of device at 25°C prior to tripping.

R_{max}=Maximum resistance of device at 25°C prior to tripping.

Environmental Specifications

Test	Conditions	Resistance change
Passive Aging	+85°C, 1000hours	≤ R _{max}
Humidity Aging	+85°C, 85%R.H.1000hours	≤ R _{max}
Thermal Shock	+125°C to -55°C, 10 Times	≥ R _{min}
Solvent Resistance	MIL-STD-202, Method 215F	No change
Vibration	MIL-STD-202, Method 201	No change

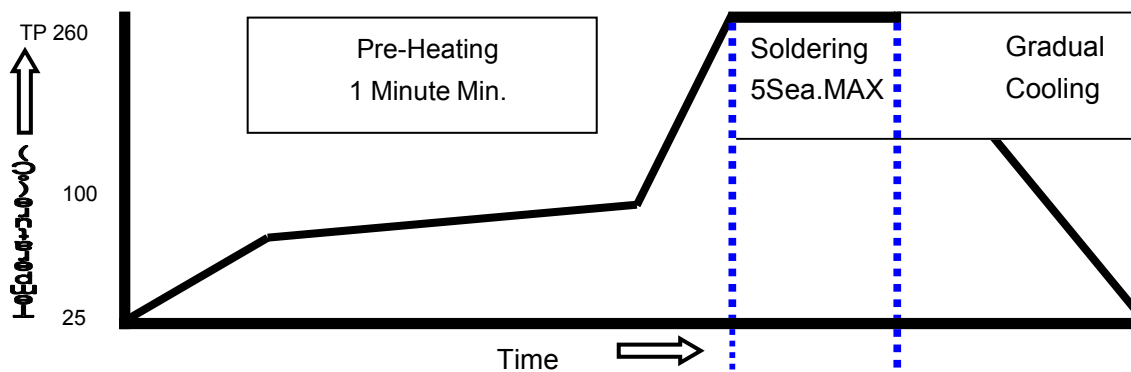
Derating Curves for R16 Series

Temperature (C°)	Percentage of Derating Current
-40	1.55
-20	1.35
0	1.15
20	0.95
40	0.75
60	0.55
80	0.35
90	0.25

The graph displays the relationship between current and time for various circuit breaker ratings. The y-axis represents Time in Seconds on a logarithmic scale from 0.01 to 1000. The x-axis represents Current in Amperes on a logarithmic scale from 1 to 100. Each curve corresponds to a specific current rating, with the rating value labeled at the end of the curve. The curves show that for a given current rating, the time to operate decreases as the current increases. Higher current ratings generally result in longer operating times for the same current value.

Current Rating (A)	Approximate Time (s) at 10A	Approximate Time (s) at 20A	Approximate Time (s) at 30A
0.75A	1000	1000	1000
1.0A	1000	1000	1000
2.0A	1000	1000	1000
3.0A	1000	1000	1000
4.0A	1000	1000	1000
5.0A	1000	1000	1000
6.0A	1000	1000	1000
7.0A	1000	1000	1000
8.0A	1000	1000	1000
10.0A	1000	1000	1000
12.0A	1000	1000	1000
15.0A	1000	1000	1000
20.0A	1000	1000	1000
25.0A	1000	1000	1000
30.0A	1000	1000	1000
40.0A	1000	1000	1000
50.0A	1000	1000	1000
60.0A	1000	1000	1000
75.0A	1000	1000	1000
100.0A	1000	1000	1000
125.0A	1000	1000	1000
150.0A	1000	1000	1000
200.0A	1000	1000	1000
250.0A	1000	1000	1000
300.0A	1000	1000	1000
400.0A	1000	1000	1000

Soldering Parameters



WAVE SOLDERING INFORMATION

Pre-Heating Zone	Max. ramping rate should not exceed 4°C/Sec.
Soldering Zone	Max. solder temperature should not exceed 260°C
Cooling Zone	Cooling by natural convection in air.

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Physical Dimensions(mm.)

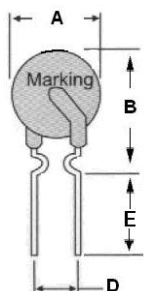


Fig.1

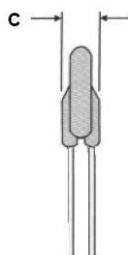


Fig.2

Unit : mm

Model	Dimensions (mm)					Lead material	Shape
	A(max)	B(max)	C(max)	D	E(min)	Tinned metal(mm)	Fig
JK16-010(T)	5.5	12.0	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-025(T)	5.5	12.0	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-030(T)	5.5	12.0	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-050(T)	5.5	12.0	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-075(T)	7.4	13.5	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-090(T)	7.4	13.5	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-110(T)	7.4	13.5	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-135(T)	7.4	13.5	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-160(T)	7.4	14.0	3.0	5.1±0.75	4.6	24 AWG/Φ0.5	1
JK16-200(T)	9.0	12.0	3.0	5.1±0.75	7.6	24 AWG/Φ0.5	2
JK16-300	9.0	12.0	3.0	5.1±0.75	4.6	20 AWG/Φ0.8	2
JK16-400	10.0	13.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-500	11.8	17.5	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-600	13.5	17.5	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-700	13.5	23.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-800	13.5	23.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-900	15.0	24.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-1000	18.0	26.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-1100	18.0	26.0	3.0	5.1±0.75	7.6	20 AWG/Φ0.8	2
JK16-1200	22.5	26.0	3.0	10.2±0.75	7.6	20 AWG/Φ0.8	2
JK16-1300	24.0	30.0	3.0	10.2±0.75	7.6	20 AWG/Φ0.8	2
JK16-1400	24.0	30.0	3.0	10.2±0.75	7.6	20 AWG/Φ0.8	2

Note: Dimensions in the A, B, C are the maximum sizes, all typical values of D is at the tolerance of $\pm 0.75\text{mm}$.

Thermal Derating Chart-IH (A)

Model	Maximum ambient operating temperature (°C)									
	-40°C	-20°C	0°C	25°C	30°C	40°C	50°C	60°C	70°C	85°C
JK16 series	147%	132%	120%	100%	90%	88%	80%	71%	61%	47%

PHYSICAL SPECIFICATIONS

JK16-010(T)~JK16-600 1000Pcs/Bag or 2000Pcs/Box

JK16-700~JK16-900 500 Pcs/Bag

JK16-1000~JK16-1400 200 Pcs/Ba

Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

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