Usage and its scope of application

RL1 Series screw base fuse is suitable for the industrial electric distribution device of AC 50Hz, rated voltage 380V, rated current up to 200A, as the use of circuit's over-load and short-circuit protection.

Model and its implication

RL 1 - □ /□

- Rated current of fuse link A
- Rated current of fuse A
- Design serial No.
- Screw base fuse

Normal operating condition and installation condition

3.1 Ambient temperature: -5C~+40C, average value within 24h does not exceed +35 ÿ, and the average value within one year should be less than this value.
3.2 Altitude of installation place does not exceed 2000m
3.3 Atmosphere condition
The air is clean, and its relative humidity does not exceed 50% when the ambient temperature is at 40 C. It is allowed relatively high humidity at the relatively low temperature, for example, the relative humidity can reach 90% when 20C, and it should take consideration of the condensation produced on the surface of product that is due to the temperature variation.
3.4 Voltage
The maximum value of system voltage does not exceed 110% of fuse's rated voltage
3.5 Installation category: III
3.6 Grade of pollution: not less than 3
3.7 Installation position
This series of fuse can be vertically, horizontally or obliquely installed at those operation occasions of without obvious shake, impact vibration.
Note: if the fuse is used in the different from the normal installation specified condition, it should be negotiated with the manufacturer.

Scope of breaking and usage category

Breaking scope of this series fuse link is "g", the usage category is "G", which is the general use full scope of breaking capacity fuse link.

www.peopleelectric.com simon@chinapeople.com

Structure characteristics

This series of fuse is consisted of the fuse link, fuse base and fusion loading component.
The fuse link is consisted of fuse tube, melt, filler and indicator. The variable cross-section melt of pure copper belt or wire is sealing into the high strength fuse tube, there filled into the fuse tube with the high purity of quartz sand that is processed by chemical as the arcing medium. There is fuse indicator on the fuse link end cap, the indicator will immediately appear when the fuse is fusing, which implies the fuse has been fused.
The fuse base is consisted of base, metal screw tube that is with terminals and the porcelain protective ring.
The fusion loading component is consisted of metal external screw tube and porcelain handle, there is the transparent window on the top, to be used as the identification of whether does the fuse link indicator appear or not (whether the fuse is fused or not).
Fuse appears full sealing type structure when operation. Base is installed by screw, easy and convenient. The terminal at the side is connected with the external wire by screw.

Main technique parameter

Table 1

Model	Rated frequency	Rated voltage	Rated current of fuse link A	Rated breaking capacity	
				kA	cos ϕ
RL1-15	50Hz	380V	2、4、6、10、15	25	0.35
RL1-60			20、25、30、35、40、50、60		
RL1-100			60、80、100	50	0.25
RL1-200			100、125、150、200		

External and installation dimension

7.1 External and installation dimension of fuse link

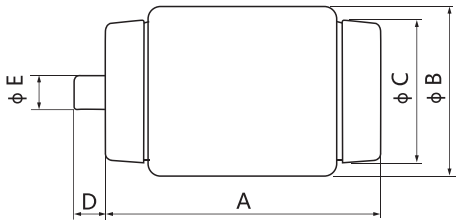


Table 2

Model	Code				
	A	ϕB	ϕC	D	ϕE
RL1-15	32.5	17.5	13.5	-	-
RL1-60	48.5	27	18.5	-	-
RL1-100	56	64	27.5	6	6.5
RL1-200	52	52	38	6	7.5

7.2 External and installation dimension of fuse holder

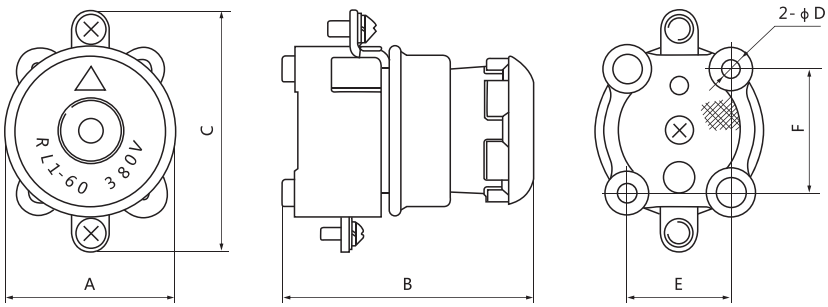
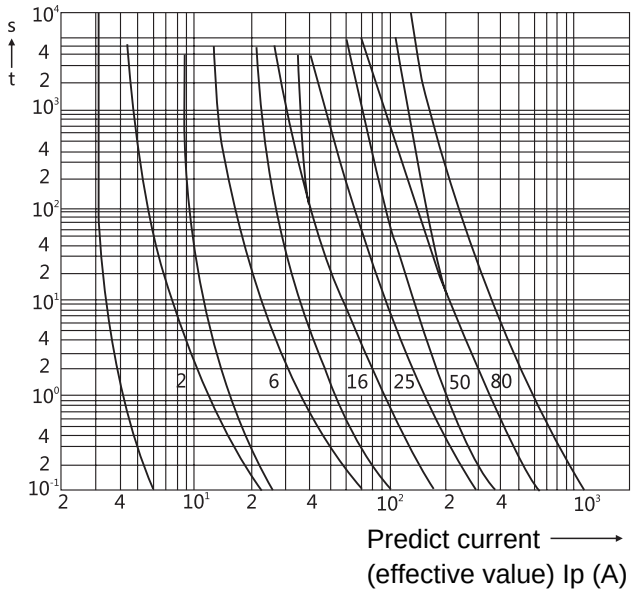
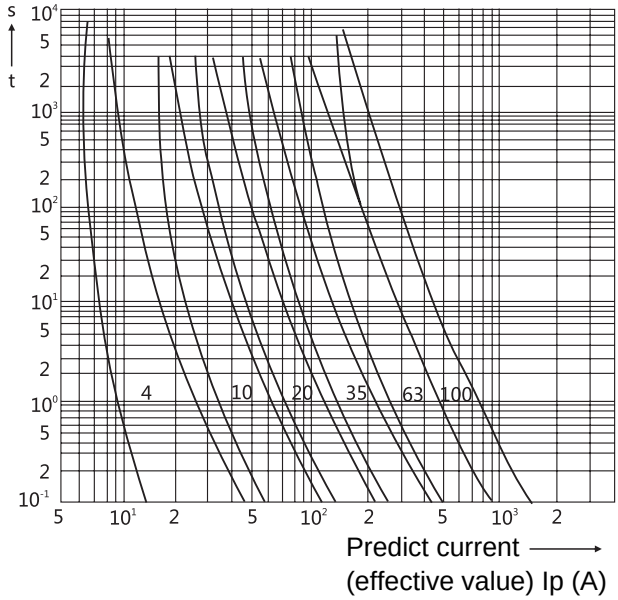


Table 3

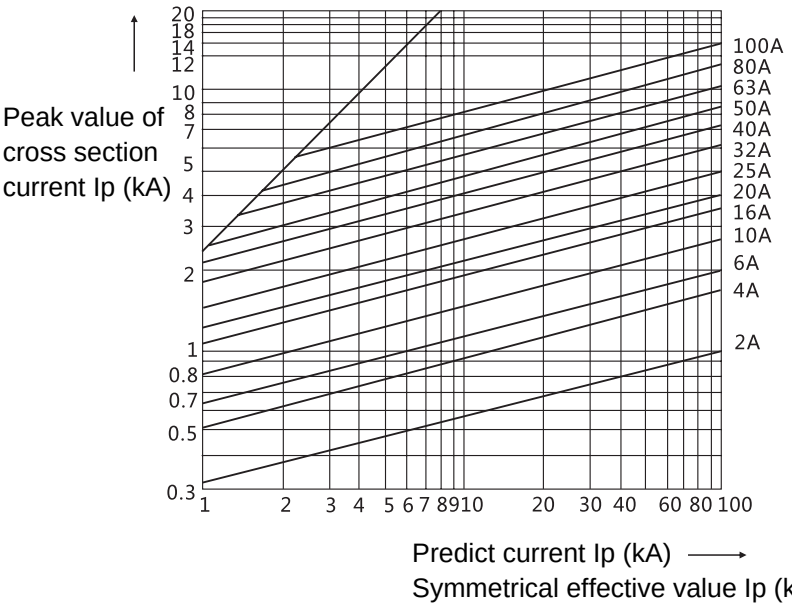
Model	Code					
	A	B	C	ϕD	E	F
RL1-15	39	62	64	5.5	24	28
RL1-60	55	77	78	6	34	40
RL1-100	84	105	125	8	46	53
RL1-200	105	120	155	10	63	64

Fuse link time-current characteristics curve





Cross section current characteristics curve



Ordering Notice

It required to be noted when ordering: product name and model No., voltage of fuse link, current of fuse link, and quantity, the fuse base or fuse link can also be ordered separately.
For example, 1. Fuse link RL1-15 380V/15A, 1000 pcs, fuse base RL1-15 1000 pcs, it can be also written as fuse RL1-15 380V/15A 1000 sets;
2. Fuse link RL1-60 380V/50A 8000 pcs, fuse base RL1-100 600 pcs