1 Basic information

1.1 Features and benefits

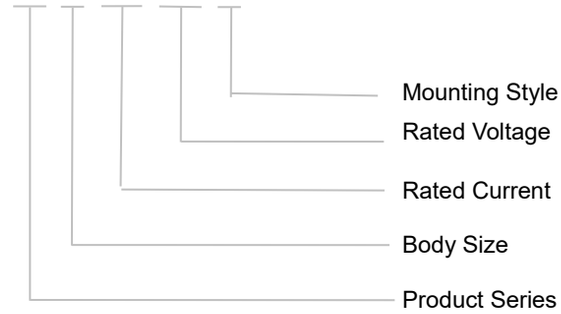
- Excellent cycling capability and DC performance
- Low arc voltage and low energy let-through (I^2t)
- Low watts loss

1.2 Typical applications

- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

1.3 Part Number System

LFR15 - **A 06 -BT



Mounting Style	Description
BT	Bolt Connection
Rated Voltage	**Description**
06	500VDC/690VAC
Rated Current	**Description**
**A	32-100A
Body Size	**Description**
15	Φ15mm

1.4 Specifications

Model	Rated Voltage (DC/AC)	Rated Current I_n	Pre-arcing I^2t	Typical Melting I^2t	Breaking Capacity (DC/AC)	Watt loss at I_n	Agency certification		Minimum package (MPQ)	Single weight
	V	A	A^2S	A^2S	kA	W	TUV	cURus	pcs	g
LFR15-32A06-BT	500/690	32	46	230	50/100	8	●	●	12	40±3
LFR15-40A06-BT	500/690	40	88	450	50/100	10	●	●	12	40±3
LFR15-50A06-BT	500/690	50	162	950	50/100	12	●	●	12	40±3
LFR15-63A06-BT	500/690	63	288	2050	50/100	12	●	●	12	40±3
LFR15-80A06-BT	500/690	80	450	3150	50/100	17	●	●	12	40±3
LFR15-100A06-BT	500/690	100	650	5850	50/100	24	●	●	12	40±3

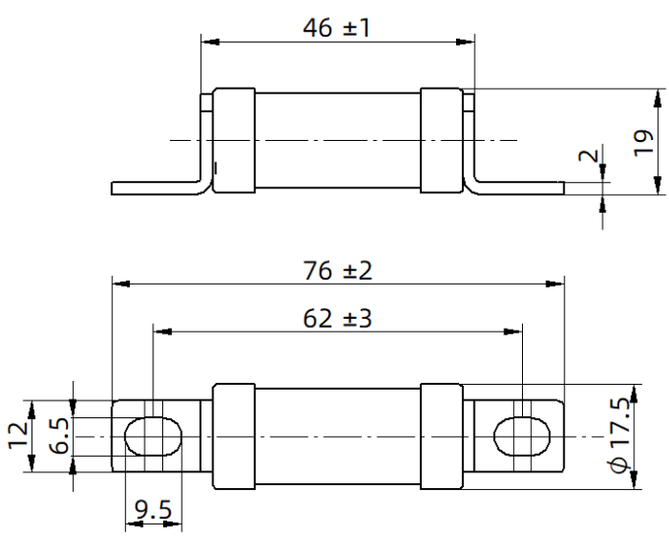
Attention：

1 “●” Indicates that the product has passed the certification

2 “0” Indicates that the product plan applies for certification

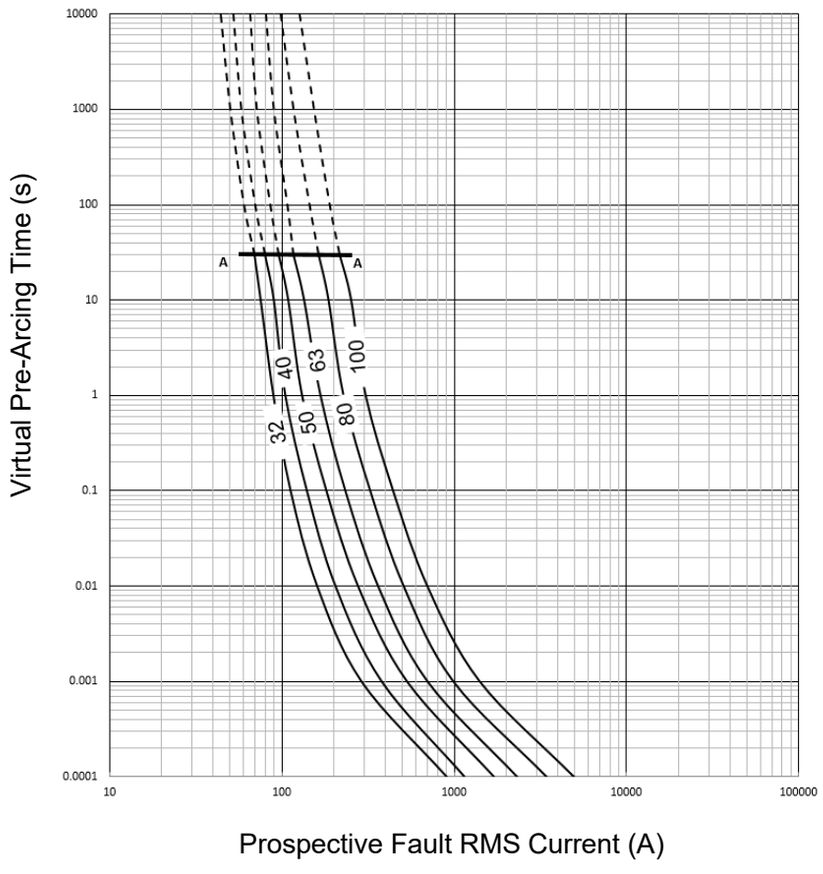
LV Fuses

2 Dimensions (mm)

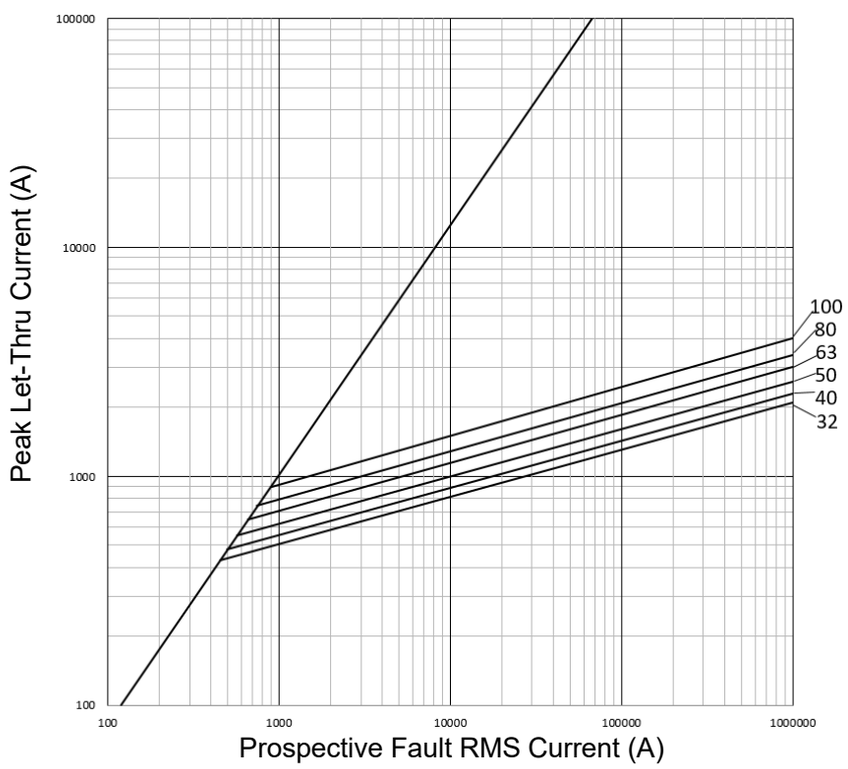


3 Characteristic curve

Time-Current Curve



Cut-Off Current Curve



LV Fuses

4 Storage

Product storage temperature: - 40 ℃~+90 ℃.
Relative humidity :not more than 90% at 20℃.

5 Working and Operating instructions

5.1 Ambient temperature

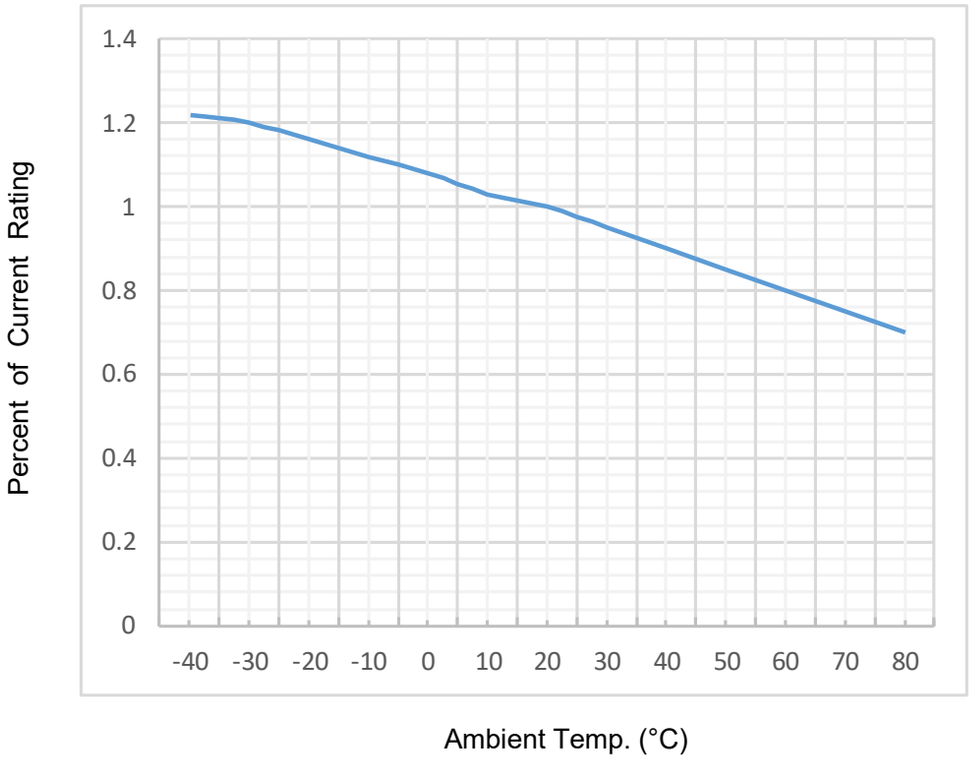
Normal operating temperature：-5℃～40℃

Normal operating temperature：-40℃～85℃

When the fuse operates above 40 ℃, the rated current needs additional correction, and the correction factor is - Kt, as shown in the figure below.

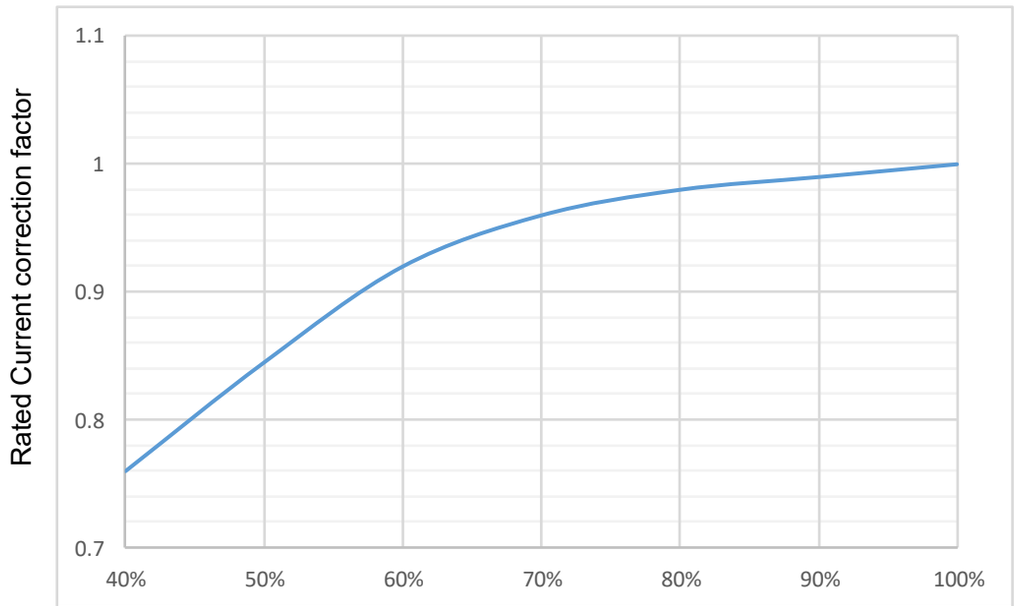
LV Fuses

Temperature Derating Curve



5.2 Connecting conductor (For reference only)

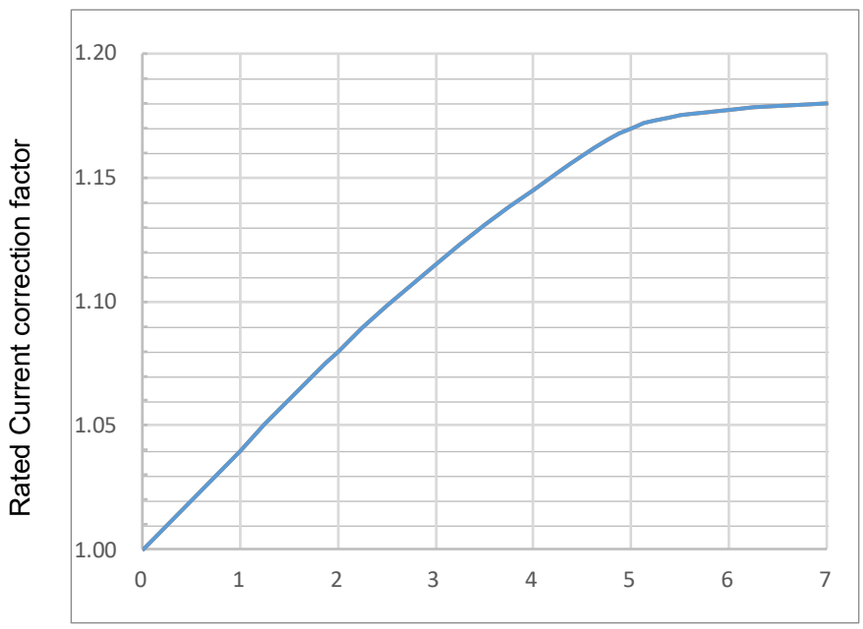
The nominal bus bar current density on which the fuses are mounted should be 1.3A/mm² (IEC 60269 Part 4 defines 1.0 to 1.6/mm²). If the bus bar carries a current density more than this, then the fuse should be derated. The correction factor is shown in the following figure



100% current density 1.3A/mm²

5.3 Cooling air

When fuses works in the environment with cooling air,the rated current value of the fuse needs to be corrected， and the correction factor is shown in the following figure.



Cooling air correction （m/s）

5.4 Altitude correection factors (For reference only)

When fuses are used at high altitudes ,the current rating should be corrected ,the correction factor is shown in the following table.

Altitude above sea level (m)	Derating factor
2000	1.000
2500	0.975
3000	0.950
3500	0.925
4000	0.900
4500	0.875
5000	0.850

LV Fuses