



1 Basic information

1.1 Features

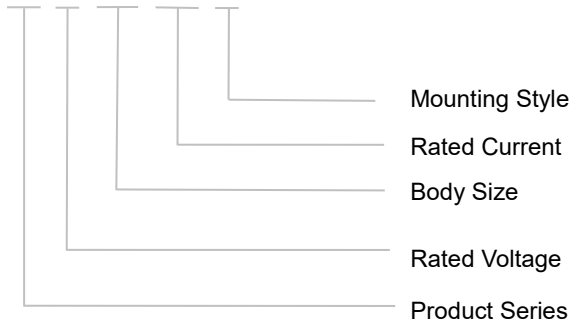
- High DC voltage rating upto 1500VDC
- DC interrupting rated at 250kA
- Extremely fast acting
- Low watt loss
- High cycling performance
- Bolted blade mounting

1.2 Applications

- Electrical Energy storage
- Battery Racks
- Battery strings
- Power conversion systems
- Hybrid inverters
- DC distribution systems

1.3 Part Number System

LFR15 XL2- **A-BB



Mounting Style	Description
BB	DIN Bolt Blade type
FB	Flat Blade type

Rated Current	Description
**A	100-630A

Body Size	Description
XL2	59*59mm
XL3	74.5*74.5mm

Rated Voltage	Description
15	1500VDC



1.4 Specifications

Model		Rated Voltage (DC)	Rated Current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated Breaking capacity (DC)	Watt loss at I _n	Agency Certification		Package (MPQ)	Weight
		V	A	A²S	A²S	kA	W	TUV	UL	pcs	kg
LFR15XL2-100A-BB	LFR15XL2-100A-FB	1500	100	1500	4600	250	55	●	●	1	1.4
LFR15XL2-125A-BB	LFR15XL2-125A-FB	1500	125	2700	8400	250	65	●	●	1	1.4
LFR15XL2-160A-BB	LFR15XL2-160A-FB	1500	160	4200	12300	250	75	●	●	1	1.4
LFR15XL2-200A-BB	LFR15XL2-200A-FB	1500	200	8050	24350	250	85	●	●	1	1.4
LFR15XL2-250A-BB	LFR15XL2-250A-FB	1500	250	15200	48400	250	95	●	●	1	1.4
LFR15XL2-315A-BB	LFR15XL2-315A-FB	1500	315	32340	114600	250	100	●	●	1	1.4
LFR15XL2-350A-BB	LFR15XL2-350A-FB	1500	350	50200	165200	250	105	●	●	1	1.4
LFR15XL2-400A-BB	LFR15XL2-400A-FB	1500	400	77300	219000	250	114	●	●	1	1.4
LFR15XL2-420A-BB	LFR15XL2-420A-FB	1500	420	82500	258000	250	116	●	●	1	1.4
LFR15XL2-450A-BB	LFR15XL2-450A-FB	1500	450	88700	276000	250	128	●	●	1	1.4
LFR15XL3-400A-BB	LFR15XL3-400A-FB	1500	400	70100	217000	250	120	●	●	1	2.4
LFR15XL3-450A-BB	LFR15XL3-450A-FB	1500	450	88700	276000	250	135	●	●	1	2.4
LFR15XL3-500A-BB	LFR15XL3-500A-FB	1500	500	118500	355000	250	145	●	●	1	2.4
LFR15XL3-550A-BB	LFR15XL3-550A-FB	1500	550	167000	515000	250	155	●	●	1	2.4
LFR15XL3-630A-BB	LFR15XL3-630A-FB	1500	630	238900	723000	250	165	●	●	1	2.4

Note:

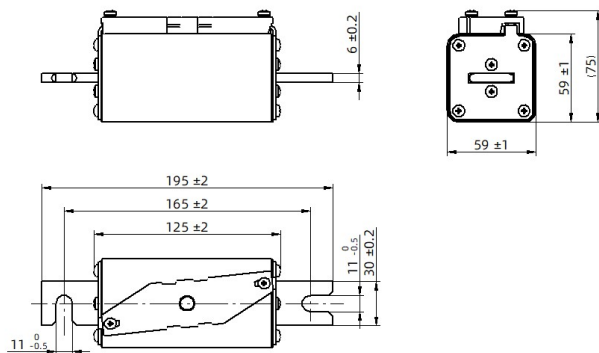
- “●” means that the product has passed the certification.
“O” means that the product plans to apply for certification.
- Tightening Torque: 26N*m (Reference Only).

1.5 Safety Approval

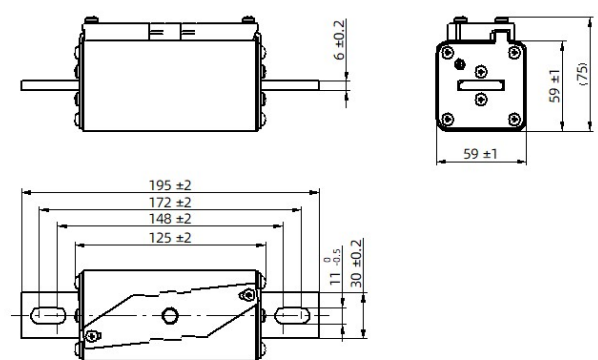
Safety Approval	Certificate No.	Rated Current Range
	E532248	100A ~ 630 A
	R 50575022 0001, AN 50575053 0001, R50575074 0001	100 A ~ 450A
	R 50575071 0001, AN 50575073 0001, R50575075 0001	400 A ~ 630A

2 Dimensions(mm)

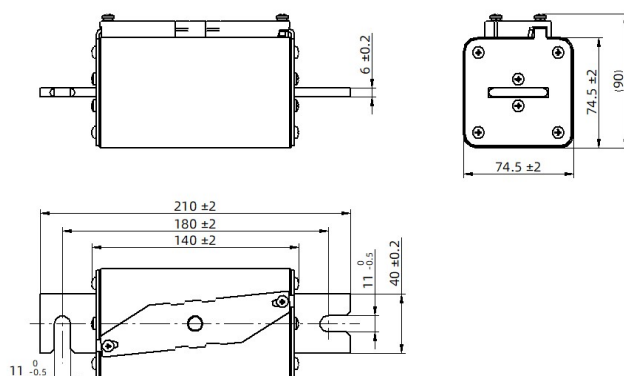
LFR15XL2 series, BB type



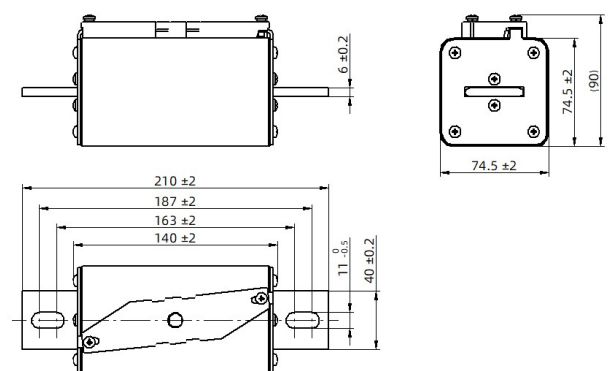
LFR15XL2 series, FB type



LFR15XL3 series, BB type

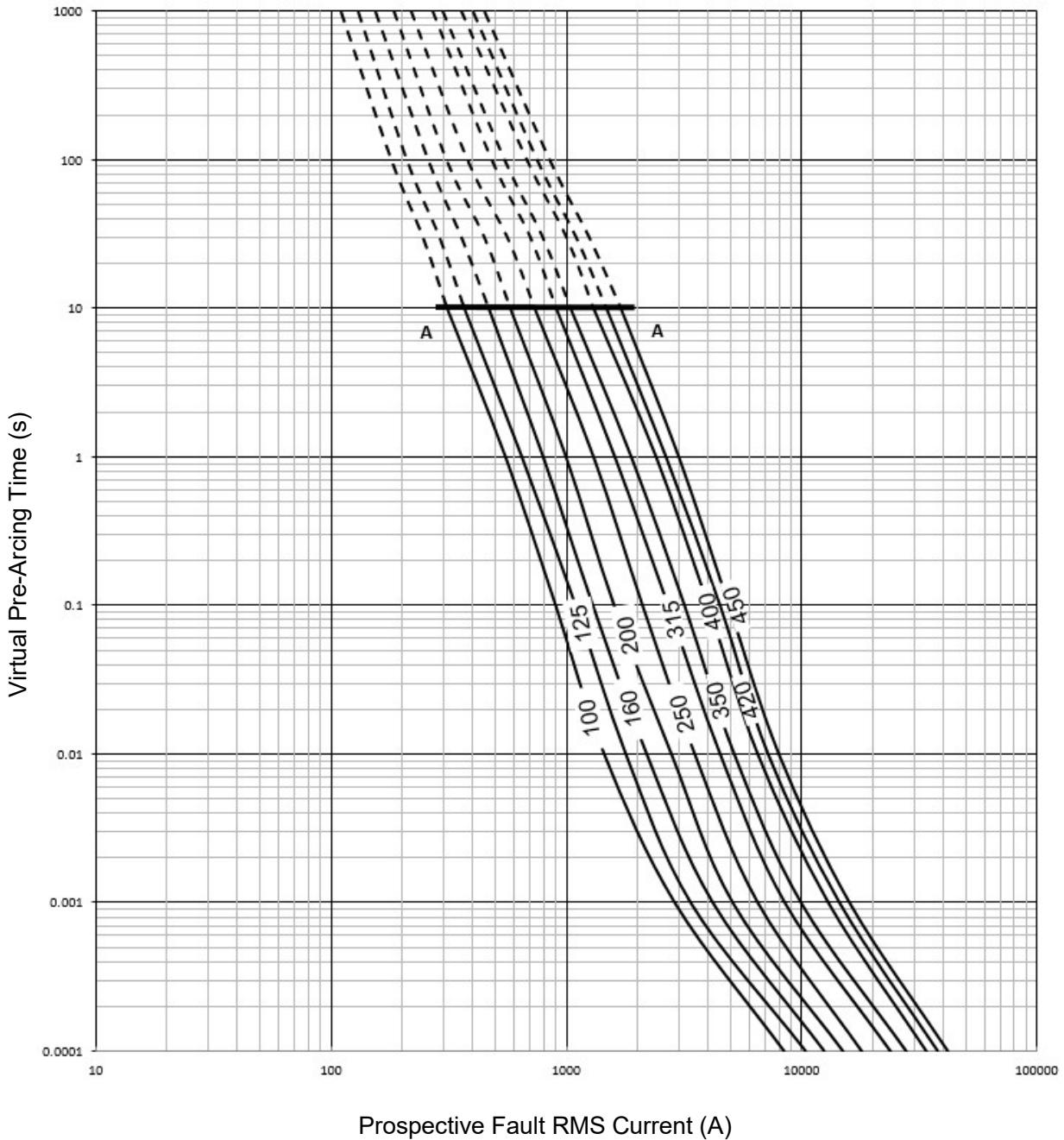


LFR15XL3 series, FB type



3 Characteristic curve

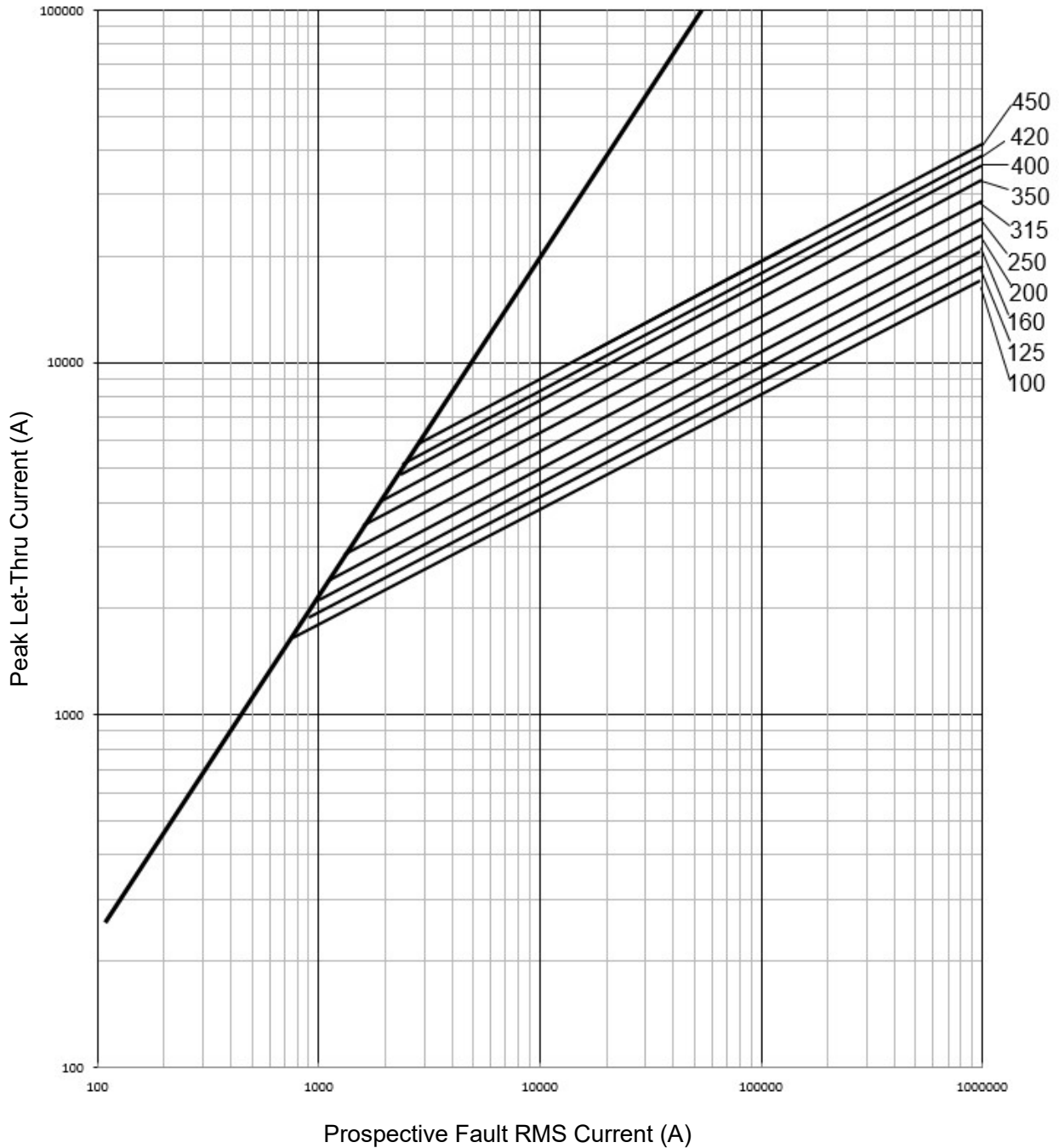
Time-Current Curve (Size XL2)



LV Fuses

LV Fuses

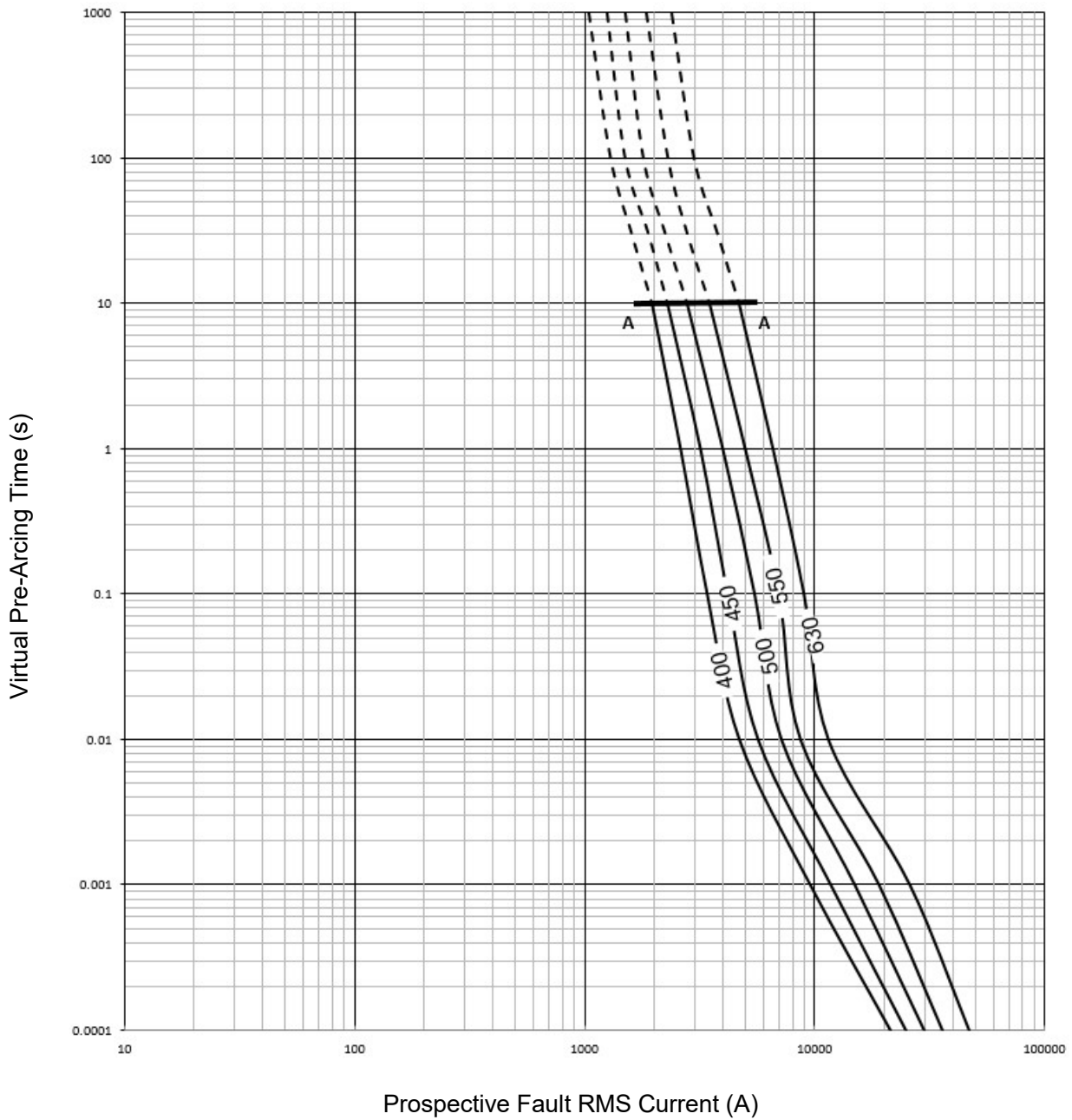
Cut-Off Current Curve (Size XL2)



LV Fuses

LV Fuses

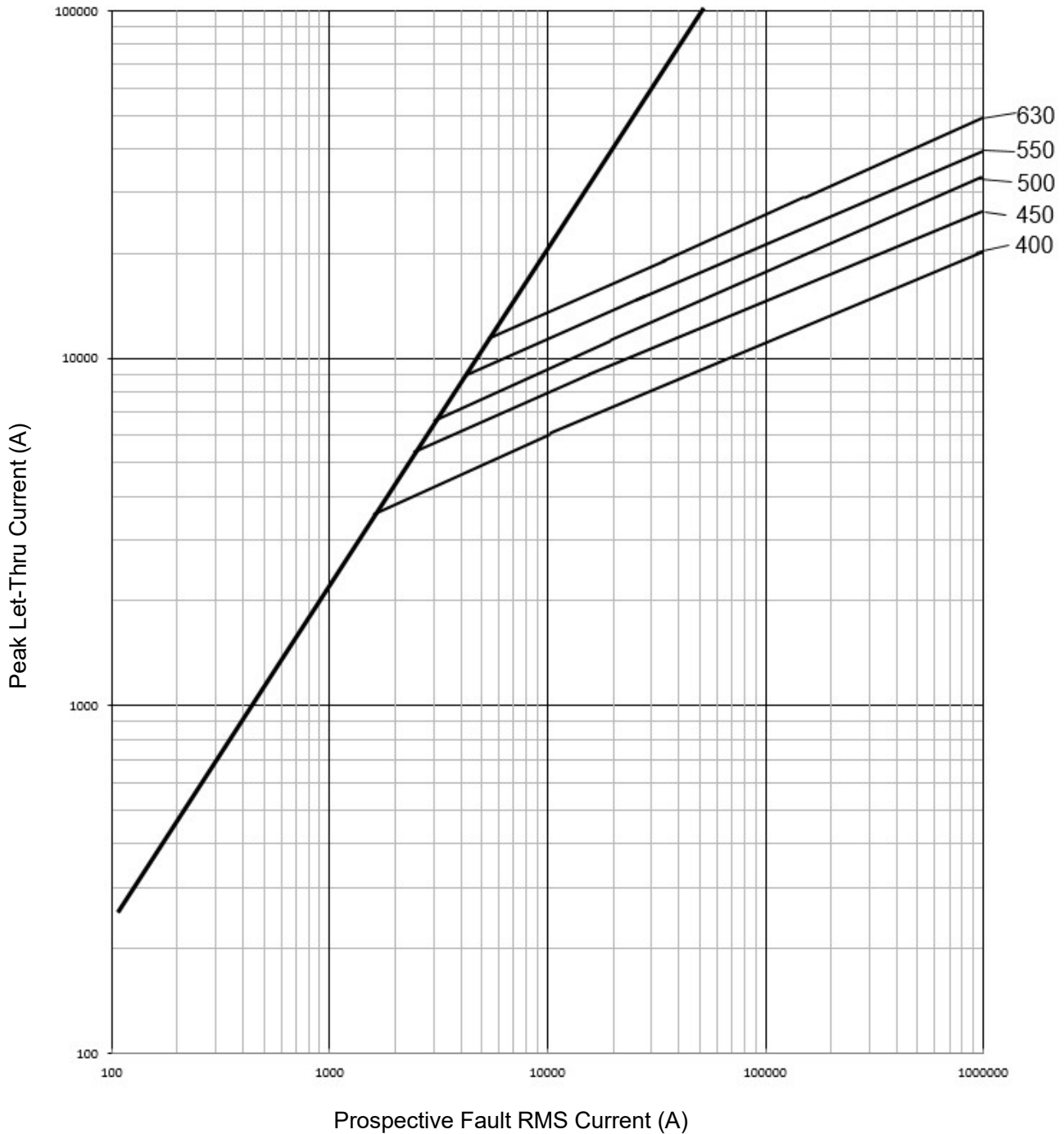
Time-Current Curve (Size XL3)



LV Fuses

LV Fuses

Cut-Off Current Curve (Size XL3)



LV Fuses

LV Fuses

4 Storage

4.1 Storage

Product storage temperature: - 40 °C~+90 °C.

Relative humidity : not more than 90% at 20 °C.

5 Working and Operating instructions

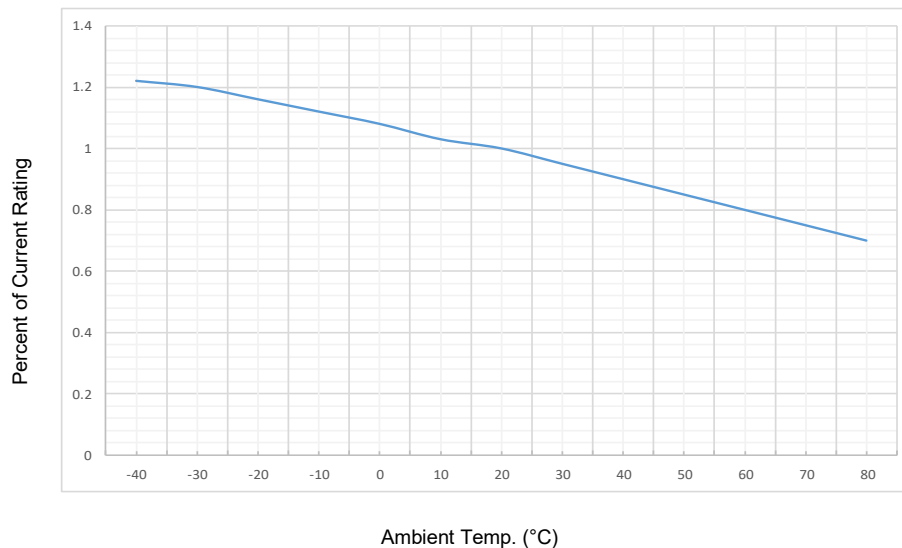
5.1 Ambient temperature

Normal operating temperature: -5°C ~ 40°C

Normal operating temperature: -40°C ~ 85°C

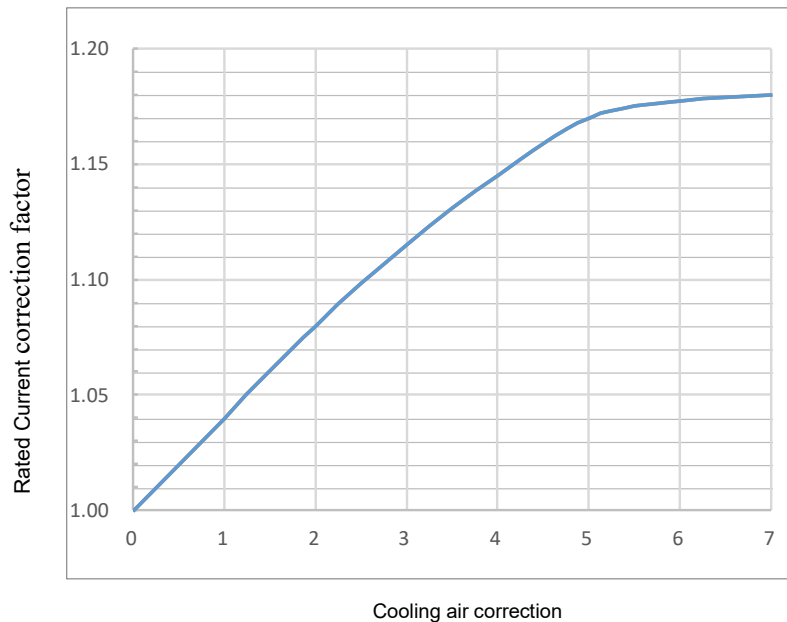
When the fuse operates above 40 °C, the rated current needs additional correction, and the correction factor is - Kt, as shown in the figure below.

Temperature Derating Curve



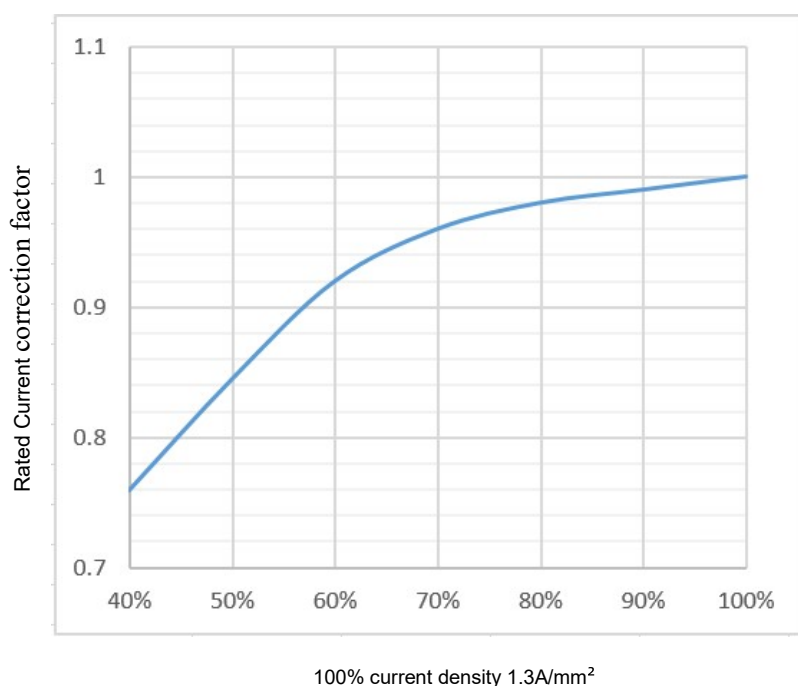
5.2 Cooling air

When fuses work 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.



5.3 Connecting conductor (For reference only)

The nominal bus bar current density on which the fuses are mounted should be $1.3\text{A}/\text{mm}^2$ (IEC 60269 Part 4 defines 1.0 to $1.6/\text{mm}^2$). 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.



5.4 Altitude correction 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

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