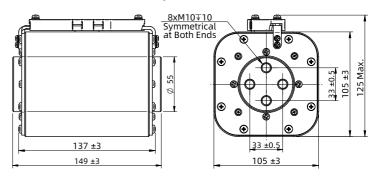


LFR15XL4(1500 VDC) Series



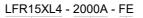
Dimensions (mm)

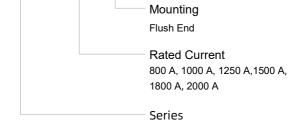


Key Features

- Rated Voltage: 1500 VDC
- Breaking Capacity: 150 kA
- Fusing Characteristics: High Speed Fuse
- Utilization Category: aR & aBat
- Good Current Limiting Capability
- Body Size: 149 x 105 x 125 mm (4#)
- RoHS and REACH Compliant, Pb Free

Part Numbering System





Applications

- Solar Inverter System
- Energy Storage System (ESS) Converters

Agency Information

Rated Current / n (A)	Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe SETfuse	Utilization Category
800 ~ 2000	c FL [®] us	UL 248-13	Pending	aR
800 ~ 2000		EN IEC 60269-4	Pending	aR
800 ~ 2000		EN IEC 60269-7	Pending	aBat

SET safe | SET fuse

Low Voltage Fuses (LV Fuses)

LFR15XL4(1500 VDC) Series

Specifications

Model	Rated Current I _n (A)	Rated Voltage <i>U</i> n (VDC)	Breaking Capacity ^a / 1 (kA)	c FL [®] us cURus	TUV	RoHS REACH Pb Free
LFR15XL4-800A-FE	800	1500	150	0	0	•
LFR15XL4-1000A-FE	1000	1500	150	0	0	•
LFR15XL4-1250A-FE	1250	1500	150	0	0	•
LFR15XL4-1500A-FE	1500	1500	150	0	0	•
LFR15XL4-1800A-FE	1800	1500	150	0	0	•
LFR15XL4-2000A-FE	2000	1500	150	0	0	•

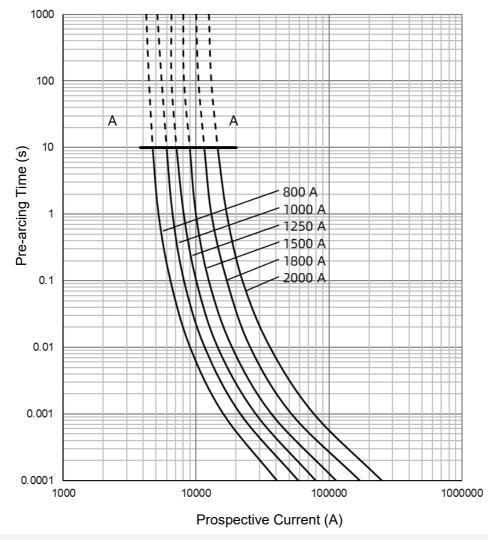
Note:

1. a: Third party test report.

2. "O": Certification pending.

3. "●": RoHS and REACH Compliant, Pb Free.

Time-Current Characteristics (For Reference Only)



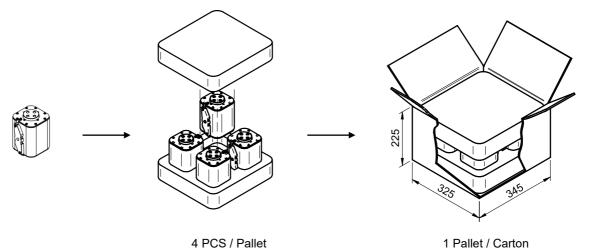
LFR15XL4(1500 VDC) Series

SET safe | SET fuse

Packaging

Item	Pearl Cotton Pallet	Carton
Product Quantity (PCS)	4	4

Packaging Drawing:

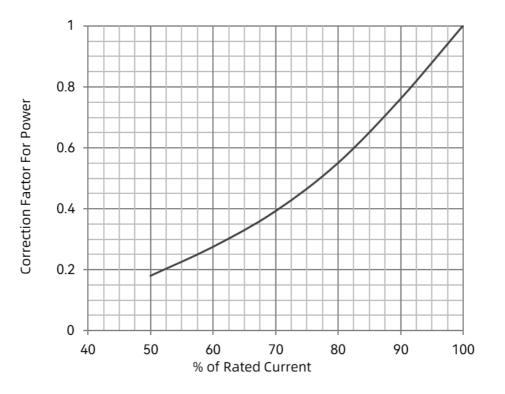


Unit: mm

LFR15XL4(1500 VDC) Series

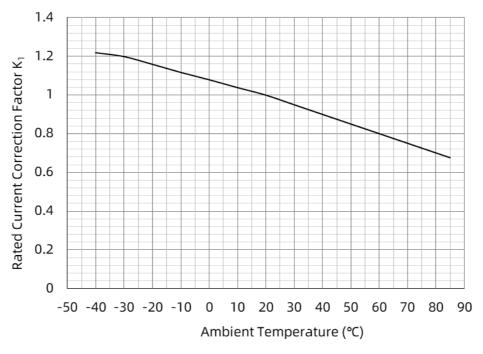
SET safe SET fuse

Power Dissipation Curve (For Reference Only)



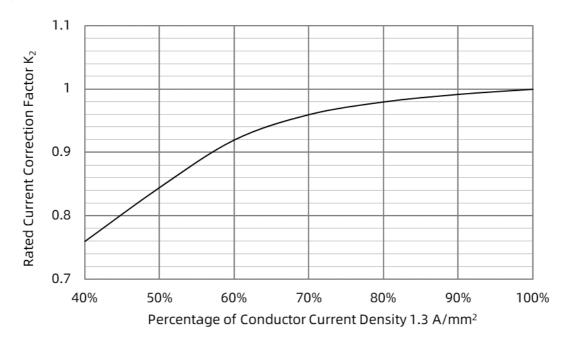
Rated Current Derating Curve

Ambient Temperature (For Reference Only)



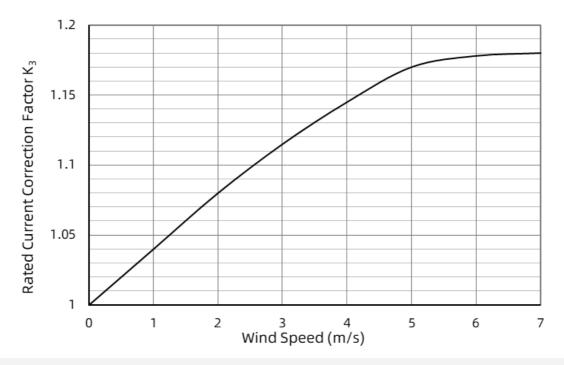
Connecting Conductor (For Reference Only)

The current density of copper bar for fuse installation is suggested to be 1.3 A/mm². If the carrying current density of copper bar is greater than 1.3 A/mm², it is recommended to reduce the rated current of fuse appropriately.



Cooling Air (For Reference Only)

When the fuse operates in the environment with cooling air, the rated current value of the fuse needs to be corrected.





LFR15XL4(1500 VDC) Series

Altitude (For Reference Only)

Altitude (m)	Derating Factor K ₄
2000	1.000
2500	0.975
3000	0.950
3500	0.925
4000	0.900
4500	0.875
5000	0.850

Rated Current:

$$I_n \geq \frac{K_0 I_c}{K_1 K_2 K_3 K_4 K_5}$$

- $I_{\rm c}$ Long-term continuous operating current
- K₀ Reliability factor: 1.25 (Reference DLT 5044-2014)
- K₁ Ambient temperature correction factor
- K_2 Correction factor for connecting conductors
- K_3 Cooling air correction factor
- K_4 Altitude correction factor
- K_5 Closed environment correction factor, for the better heat dissipation conditions of the box to take 0.9 ~ 0.95, while for the poorer take 0.8

SET safe SET fuse

Low Voltage Fuses (LV Fuses)

LFR15XL4(1500 VDC) Series



ATTENTION

Replacement

The fuse is a non-resettable product, for safety reasons, lease ensure that the spare fuse is same model.

Installation Position

Do not install the fuse on an assembly that may often subject to severe continuous vibration or with corrosive gases (NH_3 , SO_2 , CI_2 etc.).

Transportation

During packaging and transportation, rain and snow and mechanical damage shall be avoided.

Storage Conditions and Effective Date

- Storage temperature: 10 ° C~30 ° C.
- Storage humidity: 30%~70%.
- Sealed in a place with no sunshine no pollution and without corrosive gases(NH₃,SO₂,Cl₂, etc.).
- Validity period: 12 consecutive months after you receive it.

LFR15XL4(1500 VDC) Series

Glossary

Item	Description				
Fuse	Device that by the fusing of one or more of its specially designed and proportioned components opens the or which it is inserted by breaking the current when this exceeds a given value for a sufficient time.				
		—(IEC 60269-1			
Rated Current of a fuse-link / _n	Value of current that fuse-link can carry continuously without deterioration under specified conditions	—(IEC 60269-1			
Prospective Current (of a circuit and with respect to a fuse)	Current that would flow in the circuit if each pole of the fuse were replaced by conductor of negligible	impedance. —(IEC 60269-1			
Rated Voltage	naximum open circuit voltage in which a fuse can be used, yet safely interrupt an overcurrent. Exceeding the tage rating of a fuse impairs its ability to clear an overload or short circuit safely.				
U _n		—(IEC 60269-1			
Ampere Squared Seconds <i>I²t</i>					
		· · · · · · · · · · · · · · · · · · ·			
Time-current Charac- teristics	Current giving the time, e.g. pre-arcing time or operating time as a function of the prospective curren conditions of operation.				
		—(IEC 60269-1			
Breaking Capacity	Value of prospective current that a fuse is capable of breaking at a stated voltage under prescribed of and behavior.	conditions of use			
		—(IEC 60269-1			
Breaking Range	Breaking range is a range of prospective currents within which the breaking capacity of a fuse-link is	assured. —(IEC 60269-1			
Pre-arcing Time /	Interval of time between the beginning of a current large enough to cause a break in the fuse-element(s) and th				
Melting Time	stant when an arc is initiated.	(IEC 60269-1			
Arcing Time	Interval of time between the instant of the initiation of the arc in a fuse and the instant of final arc extinction in that				
	fuse.	(IEC 60269-1			
Operating Time / Total	Sum of the pre-arcing time and the acting time.				
Clearing Time	our of the pro-aroung time and the ability time.	—(IEC 60269-1			
Power Dissipation	Power released in a fuse-link carrying a stated value of electric current under prescribed conditions of	of use and behav-			
(in a fuse-link)	ior.	—(IEC 60269-1			
Correction Factor of	When the application environment and working conditions exceed in the conditions specified in the standard, for the purpose of matching the working current and long service life of the fuse, the rating of fuse should be corrected by				
Rated Current	correction factor. Consult the fuse manufacturer for specific application recommendations.	—(IEC 60269-1			
Cut-off Current	Maximum instantaneous value reached by the current during the breaking operation of a fuse-link whether the second s	nen it operates in			
	such a manner as to prevent the current from reaching the otherwise attainable maximum.	—(IEC 60269-1			
Cut-off Current Characteristic/ Let-through Current Characteristic	Curve giving the cut-off current as a function of the prospective current under stated conditions of op	eration. —(IEC 60269-1			