SET safe SET fuse

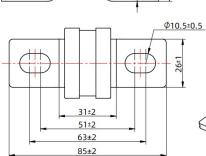
Low Voltage Fuses (LV Fuses)

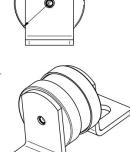
LFG35-XXXA02-BT Series





Dimensions (mm) 42.5 Ma 3±0.2





Ø38±1

Key Features

- Rated Voltage: 250 VDC •
- Breaking Capacity: 50 kA .
- Fusing Characteristics: High Speed Fuse
- Utilization Category: aR •
- Good Current Limiting Capability •
- Body Size: Φ38 x 31 mm .
- RoHS and REACH Compliant, Pb Free •

Motor Capacitor .

Rectifier

Inverter

.

Applications

Frequency Converter

Semiconductor Equipment

Energy Storage System (ESS)

Part Numbering System

LFG35 - 400A02 - BT Mounting Bolt Tag Rated Voltage 250 VDC Rated Current 100 A~600 A Series

Specifications

Model	Rated Current	Rated Voltage <i>U</i> n	Breaking Capacity	Watts Loss		CE	RoHS REACH
	(A)	(VDC)	(kA)	(W)	TUV	CE	Pb Free
LFG35-100A02-BT	100	250	50	21	•	•	•
LFG35-125A02-BT	125	250	50	23	•	•	٠
LFG35-160A02-BT	160	250	50	26	•	•	٠
LFG35-200A02-BT	200	250	50	31	•	•	۲
LFG35-250A02-BT	250	250	50	42	•	•	٠
LFG35-315A02-BT	315	250	50	52	•	•	۲
LFG35-350A02-BT	350	250	50	50	•	•	۲
LFG35-400A02-BT	400	250	50	51	•	•	۲
LFG35-450A02-BT	450	250	50	51	•	•	۲
LFG35-500A02-BT	500	250	50	60	•	•	•
LFG35-550A02-BT	550	250	50	63	•	•	•
LFG35-600A02-BT	600	250	50	72	•	•	•

Note: 1. "●": Certified, RoHS and REACH Compliant, Pb Free.

2. M10 bolts and nuts are recommended, recommended installation torque 21 N · m.

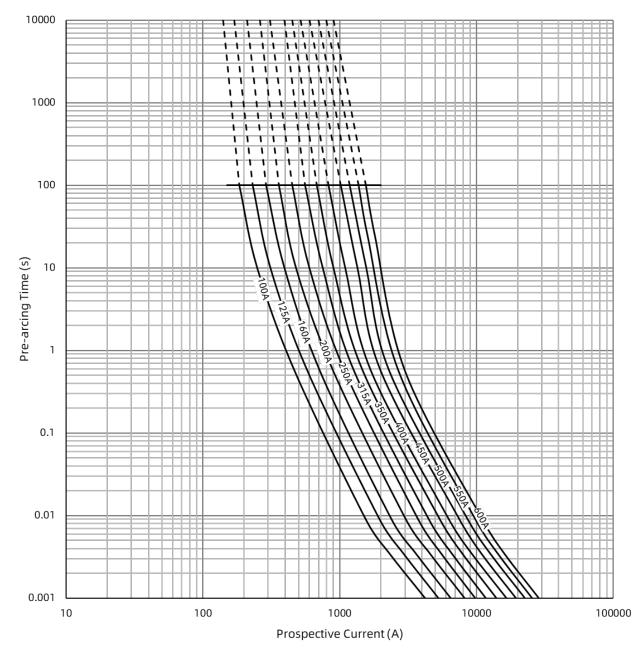
LFG35-XXXA02-BT Series

SET safe SET fuse

Agency Information

Rated Current / _n (A)	Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe SETfuse	Utilization Category
100 ~ 600		EN 60269-4	B 1072210010	aR
100 ~ 800	CE	EN 60269-4	69-4 N8A 1072210011	aR

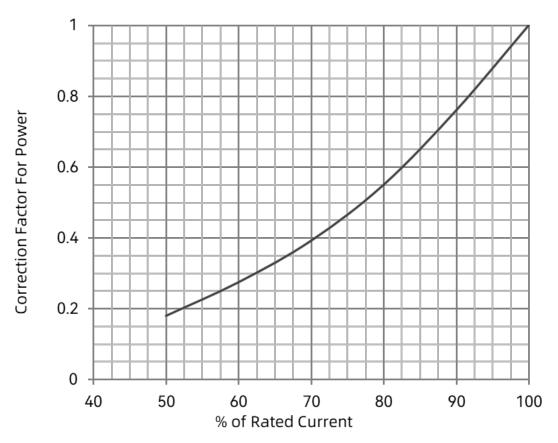
Time-Current Characteristics (For Reference Only)



LFG35-XXXA02-BT Series

SET safe SET fuse

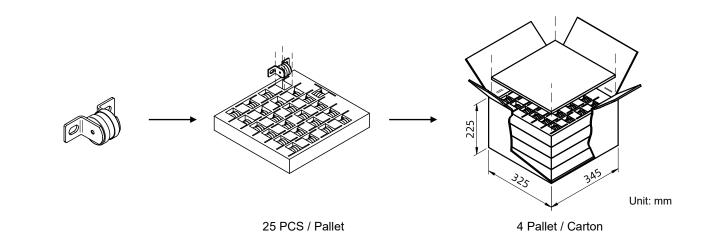
Power Dissipation Curve (For Reference Only)



Packaging

Item	Pearl Cotton Pallet		Carton
Product Quantity (PCS)	25		100
Product Weight(g)	166±5	Gross Weight(kg)	17±0.5

Packaging Drawing:

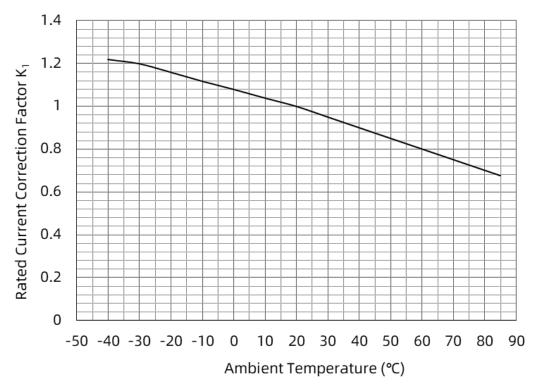




LFG35-XXXA02-BT Series

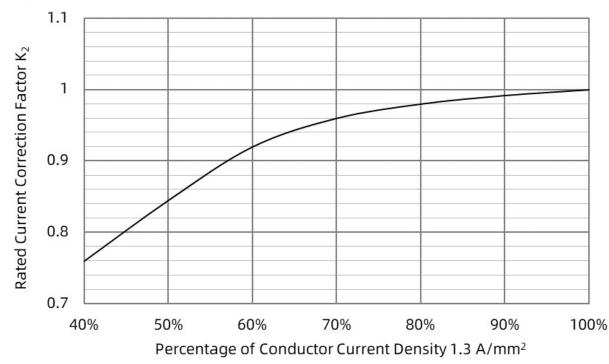
Rated Current Derating Curve

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.

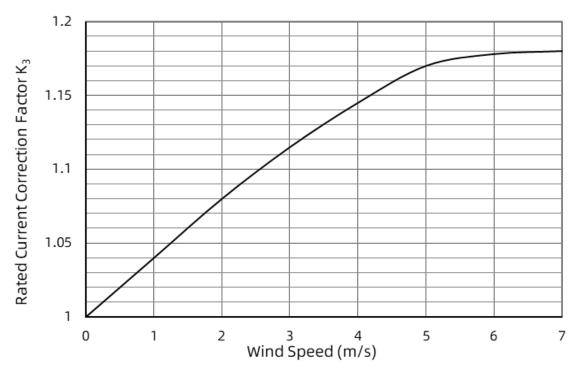


LFG35-XXXA02-BT Series

SET safe SET fuse

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.



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 K_0 Reliability factor: 1.25 (Reference DLT 5044-2014)
- K_1 Ambient temperature correction factor

 K_3 — Cooling air correction factor

K₄ — Altitude correction factor

 K_2 — Correction factor for connecting conductors

K₅ — 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



LFG35-XXXA02-BT Series



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 (NH₃, SO₂, Cl₂ 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.

SET safe SET fuse

LFG35-XXXA02-BT Series

Glossary

Item	Description				
Fuse	Device that by the fusing of one or more of its specially designed and proportioned components opens 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	9. —(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	e impedance. —(IEC 60269-1			
Rated Voltage	voltage rating of a fuse impairs its ability to clear an overload of short circuit safety.				
U n		—(IEC 60269-1			
Ampere Squared Seconds Seconds Seconds Seconds Seconds					
ľt		—(IEC 60269-1			
Time-current Charac- teristics	Current giving the time, e.g. pre-arcing time or operating time as a function of the prospective current conditions of operation.				
tenstics		—(IEC 60269-1			
Breaking Capacity	Value of prospective current that a fuse is capable of breaking at a stated voltage under prescribed conditions of us and behavior.				
0, , ,		—(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	nough to cause a break in the fuse-element(s) and the in-			
Melting Time	stant when an arc is initiated.	—(IEC 60269-1			
	Interval of time between the instant of the initiation of the arc in a fuse and the instant of final arc ext	inction in that			
Arcing Time	fuse.	—(IEC 60269-1			
Operating Time / Total Clearing Time	Sum of the pre-arcing time and the acting time.	—(IEC 60269-1			
Dewen Dissingtion	Power released in a fuse-link carrying a stated value of electric current under prescribed conditions	of use and behav			
Power Dissipation (in a fuse-link)	ior.	—(IEC 60269-1			
Correction Factor of Rated Current	When the application environment and working conditions exceed in the conditions specified in the sta purpose of matching the working current and long service life of the fuse, the rating of fuse should be correction factor. Consult the fuse manufacturer for specific application recommendations.				
Rateu 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 w such a manner as to prevent the current from reaching the otherwise attainable maximum.	hen it operates in			
		—(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			

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