



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312312000120

Applicant Heat Trace Asia Ltd
Address B410, No.189 Xijunhuan Road, Minhang, Shanghai, China
Manufacturer Heat Trace Limited
Address Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ, United Kingdom
Production Factory Heat Trace Limited
Production Address Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ, United Kingdom
Product FreezStop Ultimo/FailSafe Ultimo (FSU) Self-Regulating Heating Cables
Model/Type **FSU*-**
Ex marking Ex eb IIC T2/T3 Gb
Reference Standards GB/T 3836.1-2021, GB/T 3836.3-2021

Certification mode Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEC-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (8 pages).

Initial issue date: 2021-01-05

Issued date: 2022-10-26

Valid to: 2026-01-04

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:

穆大玉



Nanyang Explosion Protected Electrical
Apparatus Research Institute Co., Ltd.



<http://www.ccc-cnex.com>
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Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China P.C.: 473008
Tel: 0377-63239734 Email: ccc@cn-ex.com

CN 0001430



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Product information:

1. This certificate covers the following models:

- **FSU**-

Nomenclature:

**	FSU	*	-	*	*
a	b	c		d	e

a: Normal output power

b: Type FSU

c: Voltage

1: up to 199V AC

2: 200~277V AC

d: Continuous Conductive Covering

C: Tinned Copper Braid

N: Nickel Plated Copper Braid

A: Aluminium

e: Optional outer jacket

F: Fluoropolymer Jacket

S: Silicone Jacket

Technical data:

Description	Temperature
Max. continuous exposure temperature (Power ON)	250°C
Max. permissible exposure temperature (Power OFF)	250°C
Minimum installation temperature	-40°C

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Type	Power Output @10°C	Rated Voltage	Ex marking	Ingress Protection
15FSU1-C	15W/m	115V	Ex eb IIC T3 Gb	IP67
30FSU1-C	30W/m	115V	Ex eb IIC T3 Gb	
45FSU1-C	45W/m	115V	Ex eb IIC T3 Gb	
60FSU1-C	60W/m	115V	Ex eb IIC T3 Gb	
75FSU1-C	75W/m	115V	Ex eb IIC T2 Gb	
15FSU2-C	15W/m	230V	Ex eb IIC T3 Gb	
30FSU2-C	30W/m	230V	Ex eb IIC T3 Gb	
45FSU2-C	45W/m	230V	Ex eb IIC T3 Gb	
60FSU2-C	60W/m	230V	Ex eb IIC T3 Gb	
75FSU2-C	75W/m	230V	Ex eb IIC T2 Gb	
15FSU1-CS	15W/m	115V	Ex eb IIC T3 Gb	
30FSU1-CS	30W/m	115V	Ex eb IIC T3 Gb	
45FSU1-CS	45W/m	115V	Ex eb IIC T3 Gb	
60FSU1-CS	60W/m	115V	Ex eb IIC T3 Gb	

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75FSU1-CS	75W/m	115V	Ex eb IIC T2 Gb
15FSU2-CS	15W/m	230V	Ex eb IIC T3 Gb
30FSU2-CS	30W/m	230V	Ex eb IIC T3 Gb
45FSU2-CS	45W/m	230V	Ex eb IIC T3 Gb
60FSU2-CS	60W/m	230V	Ex eb IIC T3 Gb
75FSU2-CS	75W/m	230V	Ex eb IIC T2 Gb
15FSU1-CF	15W/m	115V	Ex eb IIC T3 Gb
30FSU1-CF	30W/m	115V	Ex eb IIC T3 Gb
45FSU1-CF	45W/m	115V	Ex eb IIC T3 Gb
60FSU1-CF	60W/m	115V	Ex eb IIC T3 Gb
75FSU1-CF	75W/m	115V	Ex eb IIC T2 Gb
15FSU2-CF	15W/m	230V	Ex eb IIC T3 Gb
30FSU2-CF	30W/m	230V	Ex eb IIC T3 Gb
45FSU2-CF	45W/m	230V	Ex eb IIC T3 Gb
60FSU2-CF	60W/m	230V	Ex eb IIC T3 Gb

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75FSU2-CF	75W/m	230V	Ex eb IIC T2 Gb
15FSU1-N	15W/m	115V	Ex eb IIC T3 Gb
30FSU1-N	30W/m	115V	Ex eb IIC T3 Gb
45FSU1-N	45W/m	115V	Ex eb IIC T3 Gb
60FSU1-N	60W/m	115V	Ex eb IIC T3 Gb
75FSU1-N	75W/m	115V	Ex eb IIC T2 Gb
15FSU2-N	15W/m	230V	Ex eb IIC T3 Gb
30FSU2-N	30W/m	230V	Ex eb IIC T3 Gb
45FSU2-N	45W/m	230V	Ex eb IIC T3 Gb
60FSU2-N	60W/m	230V	Ex eb IIC T3 Gb
75FSU2-N	75W/m	230V	Ex eb IIC T2 Gb
15FSU1-NF	15W/m	115V	Ex eb IIC T3 Gb
30FSU1-NF	30W/m	115V	Ex eb IIC T3 Gb
45FSU1-NF	45W/m	115V	Ex eb IIC T3 Gb
60FSU1-NF	60W/m	115V	Ex eb IIC T3 Gb

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15FSU2-NF	15W/m	230V	Ex eb IIC T3 Gb
30FSU2-NF	30W/m	230V	Ex eb IIC T3 Gb
45FSU2-NF	45W/m	230V	Ex eb IIC T3 Gb
60FSU2-NF	60W/m	230V	Ex eb IIC T3 Gb
75FSU2-NF	75W/m	230V	Ex eb IIC T2 Gb
15FSU1-NS	15W/m	115V	Ex eb IIC T3 Gb
30FSU1-NS	30W/m	115V	Ex eb IIC T3 Gb
45FSU1-NS	45W/m	115V	Ex eb IIC T3 Gb
60FSU1-NS	60W/m	115V	Ex eb IIC T3 Gb
75FSU1-NS	75W/m	115V	Ex eb IIC T2 Gb
15FSU2-NS	15W/m	230V	Ex eb IIC T3 Gb
30FSU2-NS	30W/m	230V	Ex eb IIC T3 Gb
45FSU2-NS	45W/m	230V	Ex eb IIC T3 Gb
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15FSU1-A	15W/m	115V	Ex eb IIC T3 Gb
30FSU1-A	30W/m	115V	Ex eb IIC T3 Gb
45FSU1-A	45W/m	115V	Ex eb IIC T3 Gb
60FSU1-A	60W/m	115V	Ex eb IIC T3 Gb
75FSU1-A	75W/m	115V	Ex eb IIC T2 Gb
15FSU2-A	15W/m	230V	Ex eb IIC T3 Gb
30FSU2-A	30W/m	230V	Ex eb IIC T3 Gb
45FSU2-A	45W/m	230V	Ex eb IIC T3 Gb
60FSU2-A	60W/m	230V	Ex eb IIC T3 Gb
75FSU2-A	75W/m	230V	Ex eb IIC T2 Gb
15FSU1-AF	15W/m	115V	Ex eb IIC T3 Gb
30FSU1-AF	30W/m	115V	Ex eb IIC T3 Gb
45FSU1-AF	45W/m	115V	Ex eb IIC T3 Gb
60FSU1-AF	60W/m	115V	Ex eb IIC T3 Gb

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15FSU2-AF	15W/m	230V	Ex eb IIC T3 Gb
30FSU2-AF	30W/m	230V	Ex eb IIC T3 Gb
45FSU2-AF	45W/m	230V	Ex eb IIC T3 Gb
60FSU2-AF	60W/m	230V	Ex eb IIC T3 Gb
75FSU2-AF	75W/m	230V	Ex eb IIC T2 Gb
15FSU1-AS	15W/m	115V	Ex eb IIC T3 Gb
30FSU1-AS	30W/m	115V	Ex eb IIC T3 Gb
45FSU1-AS	45W/m	115V	Ex eb IIC T3 Gb
60FSU1-AS	60W/m	115V	Ex eb IIC T3 Gb
75FSU1-AS	75W/m	115V	Ex eb IIC T2 Gb
15FSU2-AS	15W/m	230V	Ex eb IIC T3 Gb
30FSU2-AS	30W/m	230V	Ex eb IIC T3 Gb
45FSU2-AS	45W/m	230V	Ex eb IIC T3 Gb
60FSU2-AS	60W/m	230V	Ex eb IIC T3 Gb

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75FSU2-AS	75W/m	230V	Ex eb IIC T2 Gb	
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Ex marking: Ex eb IIC T2/T3 Gb

- Producers should organize production in accordance with the technical documents approved by the certification body.
2. Specific conditions of safety use:
- Withstand temp. range: -40°C to +250°C.
 - The cable is intended to be cut to length on site and the equipment is designed to be connected to a supply by means of suitable certified cable entries and junction boxes (i.e. Ex eb or Ex db) in accordance with the manufacturer's installation instructions. termination can be made using the Heat Trace termination kits or any suitably certified type termination kit which fully isolate, insulate and seal the conductive cores.
 - See instruction for other information.
3. Certificate related report(s):
- Type test report: CQST2009C522, CQST2009C522/01
 - Factory inspection report: CN2020Q010179
4. Certificate change information:
- 1st change on October 26, 2022: Updated the standards for certification.

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