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RADIAL LEADED PTC HX/HU MODEL

C **UL** **US** E175689, **TUV** 50026469

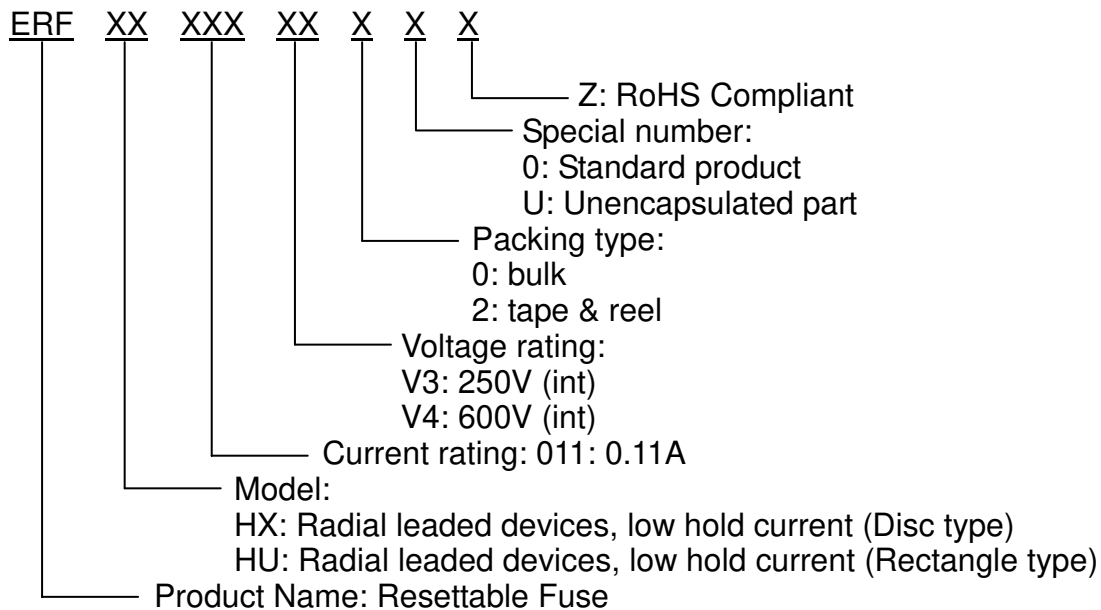
FEATURES

- Low hold current, Solid state
- Radial-leaded product ideal for up to 60/100/250VDC
- Operation current: 0.08A~0.40A
- Maximum interrupt voltage: 250/600VAC
- Temperature range: -40°C to 85°C
- Cured, flame retardant epoxy polymer insulating material meets UL 94V-0 requirement
- Bulk packing, tape and reel available on most models

APPLICATIONS

- Network Equipment
- Customer Premise Equipment
- Modem / Information Technology Equipment
- Satellite Receivers

PART NUMBERING SYSTEM



Marking system



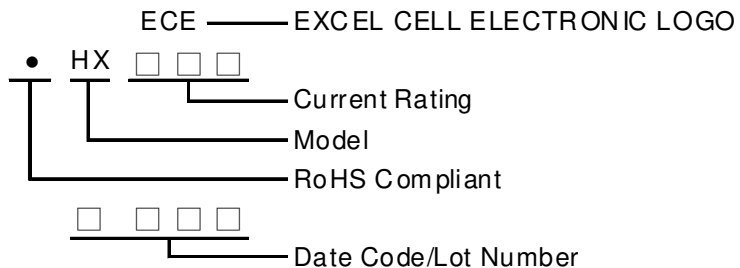
Example

*HU015-V4 Marking: HU015V4

*HU016-V4 Marking: HU016V4

*HU020-V4 Marking: HU020V4

*HU025-V4 Marking: HU025V4



*HU040-V4 Marking: HU040V4



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■ Electrical characteristics(23°C)

Part Number	Hold Current	Trip Current	Max. Time To Trip		Maximum Current	Max. Oper. Voltage	Max Int. Voltage	Resistance Tolerance	
			Current	Time				RMIN	R1MAX
	I _H , A	I _T A	A	Sec	I _{MAX} , A	V _{MAX} , VDC	V _{I-MAX} , VAC	Ω	Ω
HX008-V3	0.08	0.16	0.35	4.0	3.0	100	250	14.0	33.0
HX011-V3	0.11	0.22	1.00	2.0	3.0	100	250	5.0	16.0
HX018-V3	0.18	0.65	3.00	2.0	10.0	100	250	0.8	4.0
HU012-V3	0.12	0.24	1.00	2.0	3.0	100	250	4.0	16.0
HU015-V3	0.15	0.29	1.00	2.5	3.0	100	250	3.0	12.0
HU015-V4	0.15	0.30	1.00	4.0	3.0	250	600	6.0	17.0
HU016-V4	0.16	0.32	1.00	7.0	3.0	250	600	4.0	18.0
HU020-V3	0.20	0.40	1.00	12.0	3.0	250	600	4.0	13.5
HU025-V3	0.25	0.85	3.00	1.0	3.0	250	600	1.0	7.0
HU040-V4	0.40	1.00	3.00	4.0	3.0	60	600	0.95	1.90

I_H=Hold current-maximum current at which the device will not trip at 23°C still air.

I_T=Trip current-minimum current at which the device will always trip at 23°C still air.

V_{MAX}=Maximum voltage device can withstand without damage at its rated current.

I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V max).

P_d=Typical power dissipated from device when in the tripped state in 23°C still air environment.

R_{MIN}=Minimum device resistance at 23°C.

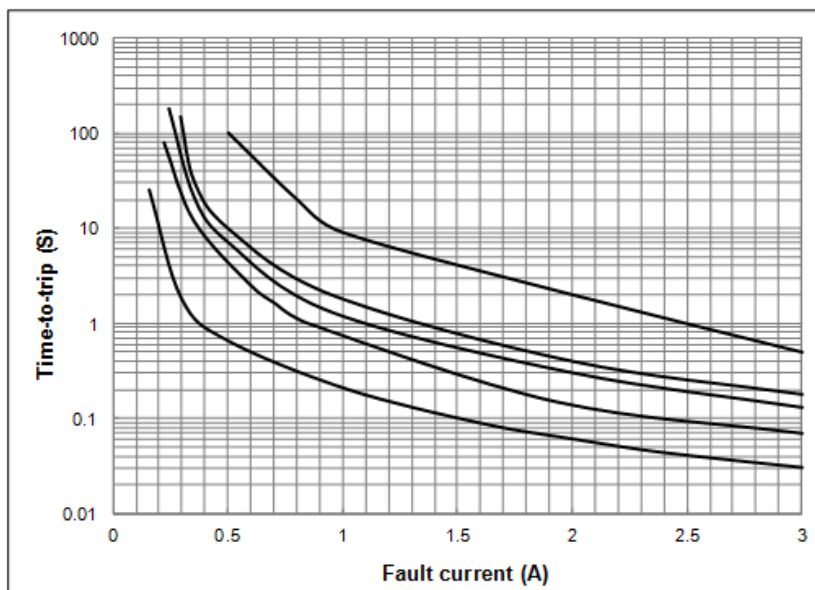
R_{1MAX}=Maximum device resistance at 23°C 1 hour after tripping .

NOTE: ALL HX/ HU products are designed to assist equipment to pass ITU K20/K21, UL60950 or GR1089 specification.

CAUTION: HX/ HU devices are not intended for continuous use of Line Voltage such as 120VAC ~ 600VAC and above.

Remark: HU020-V4 、 HU025-V4 、 HU040-V4 only UL Approvals

■ Typical Time-To-Trip at 23°C

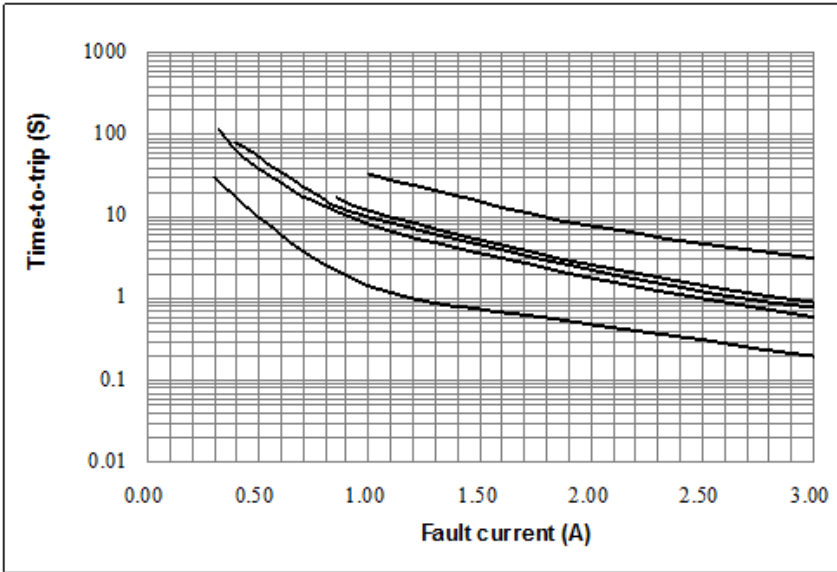


A=HX008-V3
B=HX011-V3
C=HU012-V3
D=HU015-V3
E=HX018-V3

E
D
C
B
A



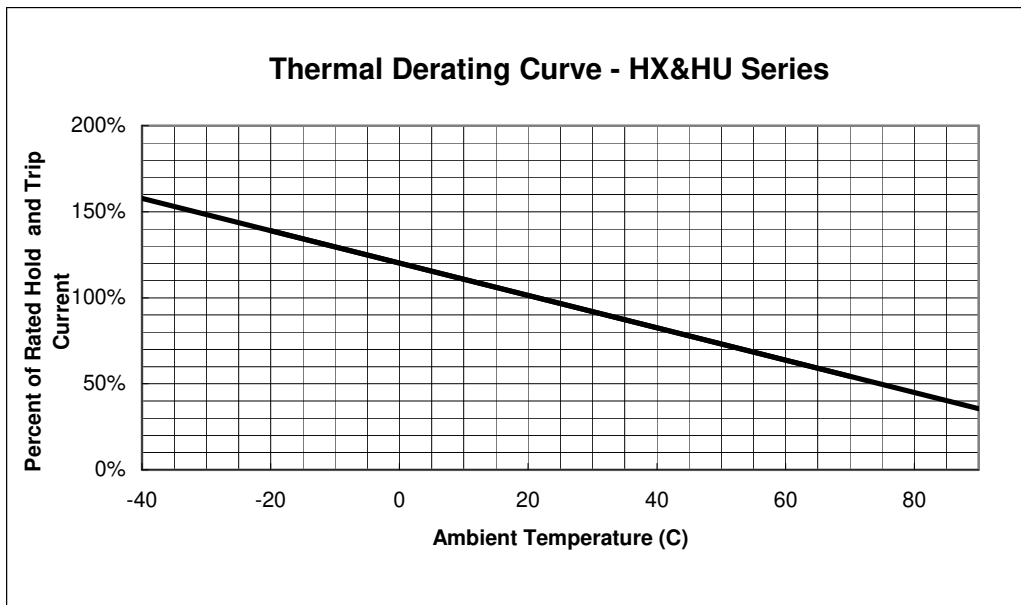
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J
I
H
G
F

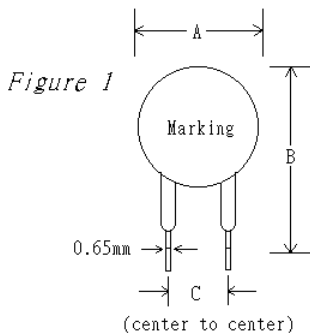
F=HU015-V4
G=HU016-V4
H=HU020-V4
I=HU025-V4
J=HU040-V4

■ Thermal Derating Curve



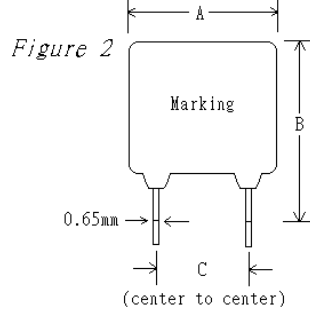
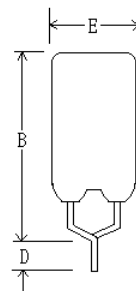
■ HX/HU Product Dimensions (UNIT: mm)

Part Number	Figure	A	B	C	D	E
		Maximum	Maximum	Typical	Maximum	Maximum
HX008-V3	1	5.8	9.6	5.0	4.7	4.6
HX011-V3	1	6.8	9.9	5.0	4.7	4.6
HX018-V3	1	9.0	12.0	5.0	4.7	3.8
HU012-V3	2	6.5	11.0	5.0	4.7	4.6
HU015-V3	2	6.5	11.0	5.0	4.7	4.6
HU015-V4	2	9.0	12.0	5.0	4.7	4.6
HU016-V4	2	16.0	12.6	5.0	4.7	6.0
HU020-V4	2	12.0	14.0	5.0	4.7	6.0
HU025-V4	2	12.0	15.0	5.0	4.7	6.0
HU040-V4	2	15.0	14.5	5.0	4.7	6.0



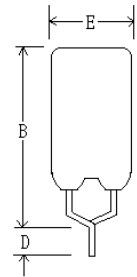
HX Model

- Lead Size: 22AWG
- φ0.65mm Diameter



HU Model

- Lead Size: 22AWG
- φ0.65mm Diameter



■ Standard Package for Reference

P/N	Pcs/Bag	Reel/Tape	P/N	Pcs/Bag	Reel/Tape
HX008-V3	300	1.5K	HU015-V4	100	1.2
HX011-V3	300	1.5K	HU016-V4	100	600
HX018-V3	200	1.5K	HU020-V4	100	-----
HX012-V3	300	1.5K	HU025-V4	100	-----
HU015-V3	300	1.5K	HU040-V4	100	-----