RADIAL LEADED PTC
EX/EU MODEL

c UL us E175689 TÜV Pending

■ FEATURES

- Solid state, Radial leaded product ideal for up to 120VAC/VDC
- Operation current: 0.10A~3.75A
- Maximum Voltage: 120VAC/VDC
- Maximum Interrupt Voltage: 135VAC/VDC
- Temperature range: -40℃ to 85℃
- Cured, flame retardant epoxy polymer insulating material meets UL 94V-0 requirement
- Bulk packing, tape and reel available on most models

■ APPLICATIONS

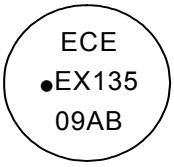
- Line voltage power supply
- Transformer and appliances product

■ PART NUMBERING SYSTEM

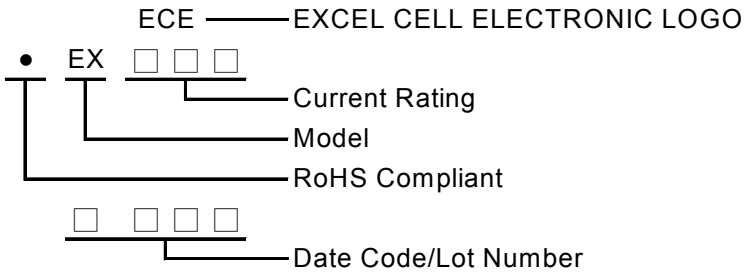
ERF XX XXX XX X X X

- Z: RoHS Compliant
- Special number: 0: Standard product
- Packing type: 0: bulk 2: tape & reel
- Voltage rating: V1: 120V
- Current rating: 135: 1.35A
- Model: EX: (Disc type) EU: (Rectangle type)
- Product Name: Resettable Fuse

■ Marking system



Example



*If the current rating is under 1Amp their will be no " ECE " logo shown on the body.

NOTE: Specifications subject to change without prior notice.

■ Electrical characteristics(23℃)

Part Number	Hold Current	Trip Current	Max. Time to trip	Max. Current	Max. Oper. Voltage	Max. Int. Voltage	Typical Power	Resistance Tolerance	
								R_{MIN}	$R1_{MAX}$
	I_H, A	I_T, A	at 5x I_H	I_{MAX}, A	V_{MAX}, $V_{AC/DC}$	V_{I-MAX}, $V_{AC/DC}$	Pd, W	Ω	Ω
EX010-V1	0.10	0.20	10.0	2.0	120	135	0.84	3.00	7.50
EX017-V1	0.17	0.34	10.0	2.0	120	135	0.84	2.00	7.00
EX020-V1	0.20	0.40	9.0	2.0	120	135	1.08	1.83	4.40
EX025-V1	0.25	0.50	7.5	3.0	120	135	1.08	1.25	3.00
EX030-V1	0.30	0.60	8.5	3.0	120	135	1.44	0.88	2.10
EX040-V1	0.40	0.80	6.5	3.0	120	135	1.44	0.55	1.29
EX050-V1	0.50	1.00	6.0	3.0	120	135	1.56	0.50	1.17
EX065-V1	0.65	1.30	5.7	5.0	120	135	1.68	0.31	0.72
EX075-V1	0.75	1.50	6.3	5.0	120	135	1.80	0.25	0.60
EX090-V1	0.90	1.80	7.2	5.0	120	135	1.80	0.20	0.47
EX110-V1	1.10	2.20	8.2	8.0	120	135	2.28	0.15	0.38
EX135-V1	1.35	2.70	9.6	10.0	120	135	2.64	0.12	0.30
EX160-V1	1.60	3.20	11.4	12.0	120	135	3.12	0.09	0.22
EX185-V1	1.85	3.70	12.6	12.0.	120	135	3.36	0.08	0.19
EX250-V1	2.50	5.00	15.6	15.0	120	135	4.44	0.05	0.13
EX300-V1	3.00	6.00	19.8	17.0	120	135	4.56	0.04	0.10
EX375-V1	3.75	7.50	24.0	20.0	120	135	4.80	0.03	0.08
EU075-V1	0.75	1.50	15.0	7.5	120	135	2.64	0.25	0.69
EU100-V1	1.00	2.00	15.0	10.0	120	135	2.64	0.18	0.47
EU125-V1	1.25	2.50	20.0	12.5	120	135	2.88	0.11	0.33
EU135-V1	1.35	2.70	20.0	13.5	120	135	3.12	0.11	0.30
EU200-V1	2.00	4.20	36.0	20.0	120	135	4.32	0.08	0.21

I_H=Hold current-maximum current at which the device will not trip at 23℃ still air.
I_T=Trip current-minimum current at which the device will always trip at 23℃ 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).
Pd=Typical power dissipated from device when in the tripped state in 23℃ still air environment.
R_{MIN}=Minimum device resistance at 23℃.
$R1_{MAX}$=Maximum device resistance at 23℃ 1 hour after tripping .

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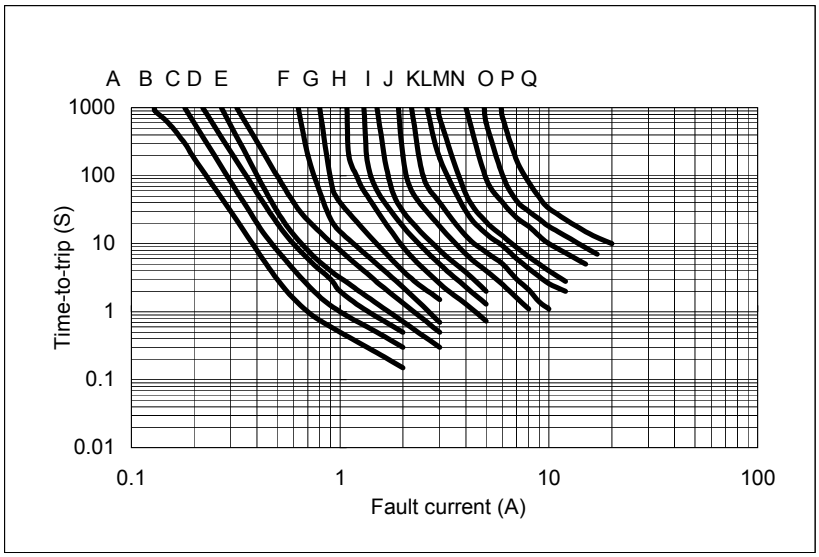
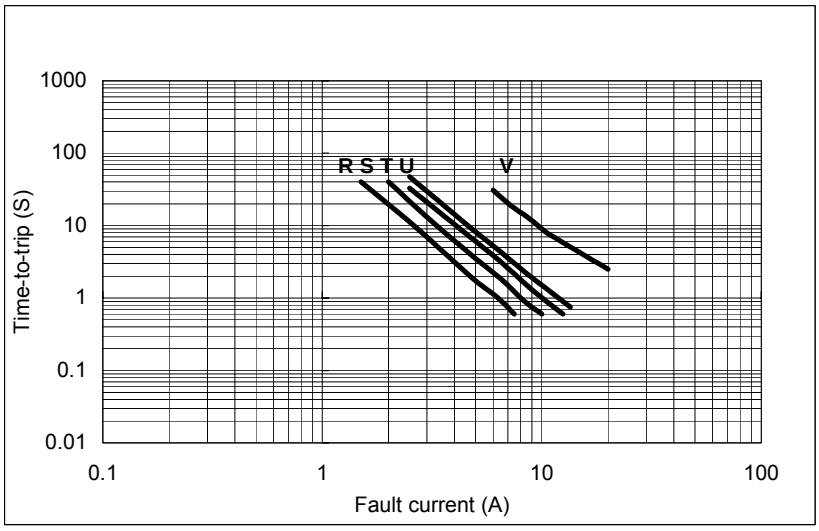
■ Typical Time-To-Trip at 23℃

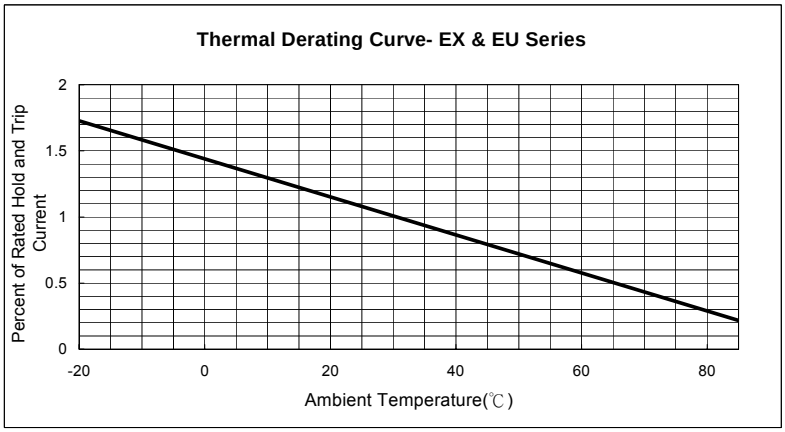
A=EX010-V1
B=EX017-V1
C=EX020-V1
D=EX025-V1
E=EX030-V1
F=EX040-V1
G=EX050-V1
H=EX065-V1
I=EX075-V1
J=EX090-V1
K=EX110-V1
L=EX135-V1
M=EX160-V1
N=EX185-V1
O=EX250-V1
P=EX300-V1
Q=EX375-V1



R=EU075-V1
S=EU100-V1
T=EU125-V1
U=EU135-V1
V=EU200-V1



■ Thermal Derating Curve



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■ EX/EU Product Dimensions (UNIT: mm)

Part Number	A	B	C	D	E	F	Figure
	Maximum	Maximum	Typical	Minimum	Maximum	Typical	
EX010-V1	7.9	13.0	5.1	7.6	3.8	2.2	1
EX017-V1	7.9	13.0	5.1	7.6	3.8	2.2	1
EX020-V1	7.9	13.0	5.1	7.6	3.8	2.2	2
EX025-V1	7.9	13.0	5.1	7.6	3.8	2.2	2
EX030-V1	7.9	13.0	5.1	7.6	3.8	2.2	2
EX040-V1	8.2	14.2	5.1	7.6	3.8	2.2	2
EX050-V1	9.2	14.9	5.1	7.6	3.8	2.2	2
EX065-V1	9.7	14.9	5.1	7.6	3.8	2.2	2
EX075-V1	10.6	15.5	5.1	7.6	3.8	2.2	2
EX090-V1	11.9	15.9	5.1	7.6	3.8	2.2	2
EX110-V1	13.3	18.3	5.1	7.6	4.1	2.2	3
EX135-V1	15.5	20.6	5.1	7.6	4.1	2.2	3
EX160-V1	17.5	22.5	5.1	7.6	4.1	2.2	3
EX185-V1	19.9	24.9	5.1	7.6	4.1	2.2	3
EX250-V1	22.5	27.5	10.2	7.6	4.1	2.2	3
EX300-V1	25.5	30.0	10.2	7.6	4.1	2.2	3
EX375-V1	29.5	34.0	10.2	7.6	4.1	2.2	3
EU075-V1	10.9	17.0	5.1	7.6	4.1	2.2	4
EU100-V1	11.5	20.1	5.1	7.6	4.1	2.2	4
EU125-V1	14.0	21.7	5.1	7.6	4.1	2.2	4
EU135-V1	16.3	21.7	5.1	7.6	4.1	2.2	4
EU200-V1	23.5	27.9	10.2	7.6	4.1	2.2	4

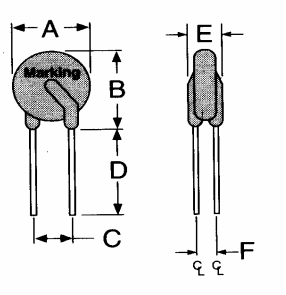

Figure 1

●Lead Size: 24AWG
●Φ0.51mm Diameter

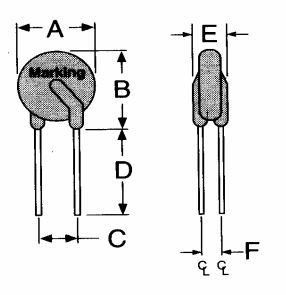

Figure 2

●Lead Size: 22AWG
●Φ 0.65mm Diameter

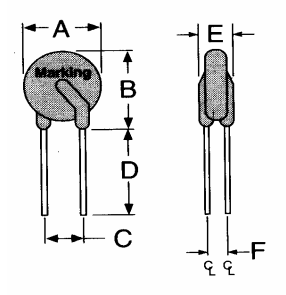

Figure 3

●Lead Size: 20AWG
●Φ0.81mm Diameter

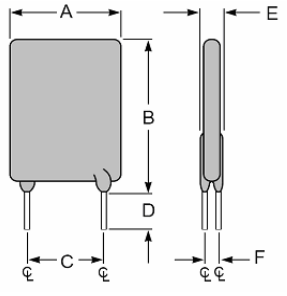

Figure 4

●Lead Size: 20AWG
●Φ0.81mm Diameter

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