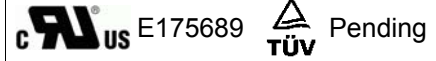


**RADIAL LEADED PTC  
 EX/EU MODEL**



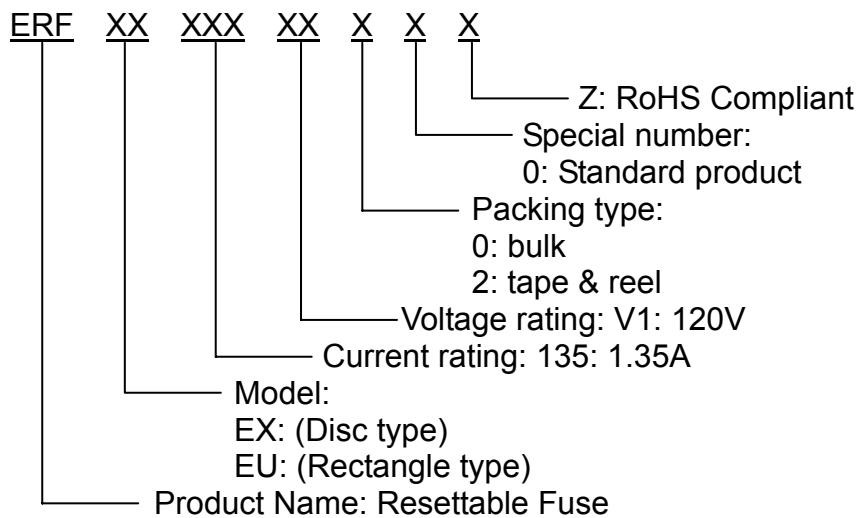
**FEATURES**

- 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°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**

- Line voltage power supply
- Transformer and appliances product

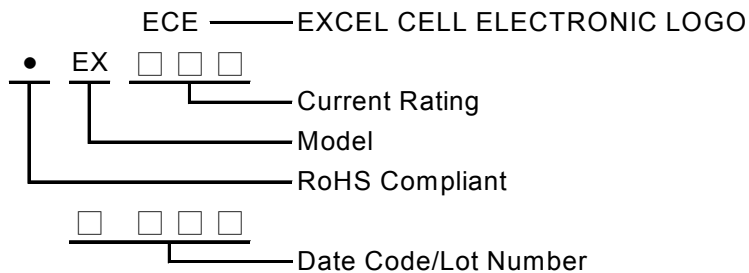
**PART NUMBERING SYSTEM**



**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°C)

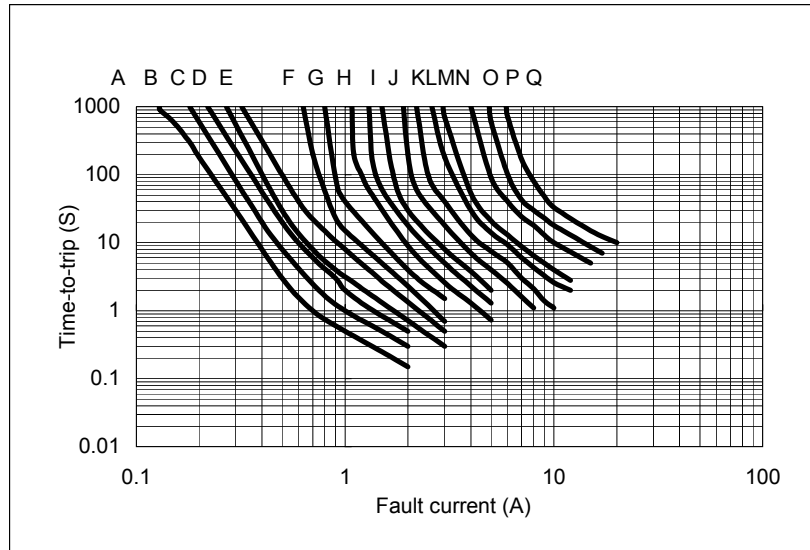
| Part Number | Hold Current       | Trip Current       | Max. Time to trip    | Max. Current         | Max. Oper. Voltage                    | Max. Int. Voltage                       | Typical Power      | Resistance Tolerance |                   |
|-------------|--------------------|--------------------|----------------------|----------------------|---------------------------------------|---|--------------------|----------------------|-------------------|
|             | I <sub>H</sub> , A | I <sub>T</sub> , A | at 5x I <sub>H</sub> | I <sub>MAX</sub> , A | V <sub>MAX</sub> , V <sub>AC/DC</sub> | V <sub>I-MAX</sub> , V <sub>AC/DC</sub> |                    | R <sub>MIN</sub>     | R <sub>1MAX</sub> |
|             |                    |                    |                      |                      |                                       |   | P <sub>d</sub> , 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<sub>H</sub>=Hold current-maximum current at which the device will not trip at 23°C still air.  
I<sub>T</sub>=Trip current-minimum current at which the device will always trip at 23°C still air.  
V<sub>MAX</sub>=Maximum voltage device can withstand without damage at its rated current.  
I<sub>MAX</sub>= Maximum fault current device can withstand without damage at rated voltage (V max).  
P<sub>d</sub>=Typical power dissipated from device when in the tripped state in 23°C still air environment.  
R<sub>MIN</sub>=Minimum device resistance at 23°C.  
R<sub>1MAX</sub>=Maximum device resistance at 23°C 1 hour after tripping .

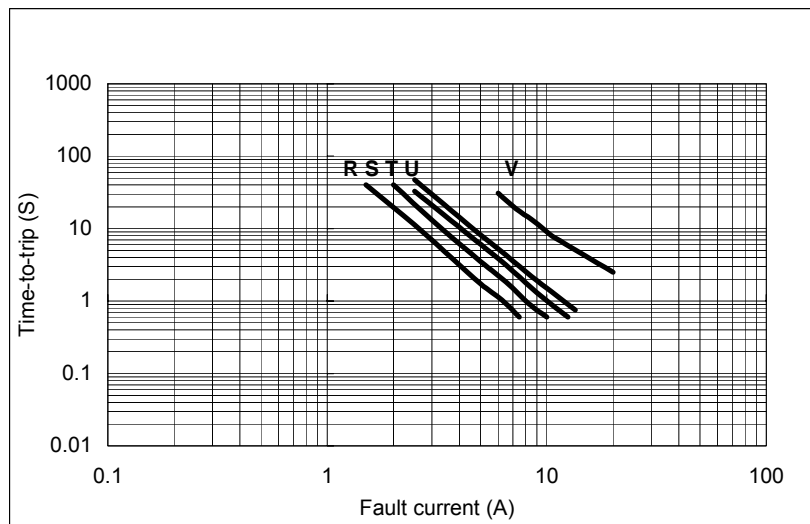
**NOTE: Specifications subject to change without prior notice.**

■ **Typical Time-To-Trip at 23°C**

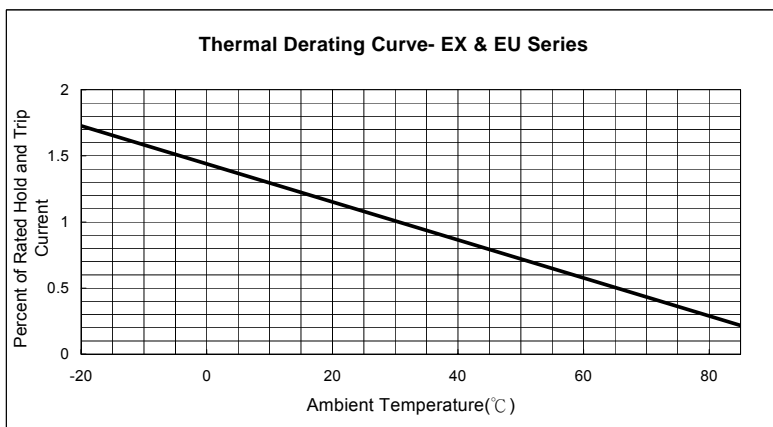
- A=EX010-V1
- B=EX017-V1
- C=EX020-V1
- D=EX025-V1
- E=EX030-V1
- F=EX040-V1
- G=EX050-V1
- H=EX065-V1
- I=EX075-V1
- J=EX090-V1
- K=EX110-V1
- L=EX135-V1
- M=EX160-V1
- N=EX185-V1
- O=EX250-V1
- P=EX300-V1
- Q=EX375-V1



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



■ **Thermal Derating Curve**



**NOTE: Specifications subject to change without prior notice.**

**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      |

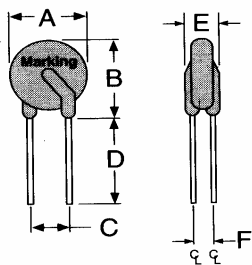


Figure 1

● Lead Size: 24AWG  
 ●  $\Phi 0.51$ mm Diameter

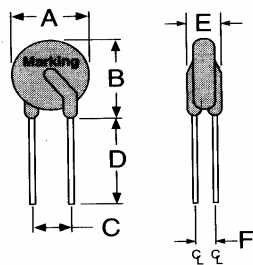


Figure 2

● Lead Size: 22AWG  
 ●  $\Phi 0.65$ mm Diameter

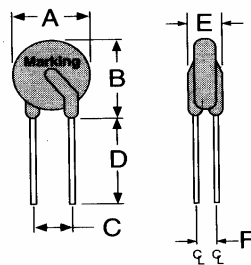


Figure 3

● Lead Size: 20AWG  
 ●  $\Phi 0.81$ mm Diameter

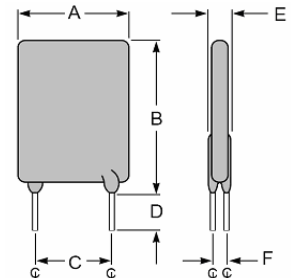


Figure 4

● Lead Size: 20AWG  
 ●  $\Phi 0.81$ mm Diameter

**NOTE: Specifications subject to change without prior notice.**

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