



# CRE, 3CRE, 6CRE SERIES

SPARK QUENCHER



## Features

- Broad use in industrial applications.
- External mounting tab.
- 1/2 watt non-inductive, high pulse resistor.
- Three phase delta connection (3 CRE). Three phase three line (6 CRE).

## Applications

- Automatic machines and industrial machinery.

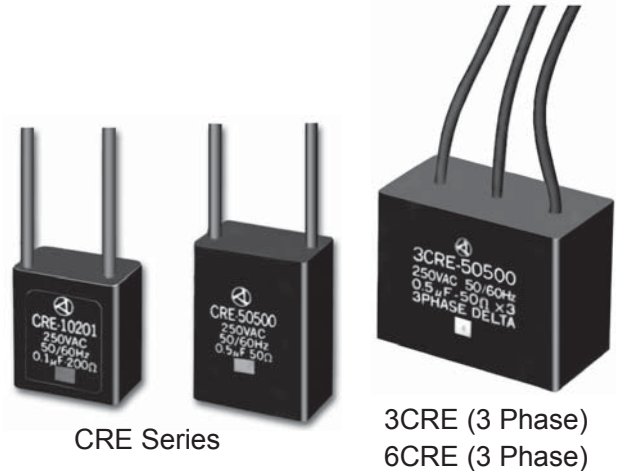
- Model numbering system

|                  |             |          |             |             |            |              |  |  |
|------------------|-------------|----------|-------------|-------------|------------|--------------|--|--|
|                  | <b>C</b>    | <b>R</b> | <b>E</b>    | -           |            |              |  |  |
| Supported number | Series name |          | Capacitance |             | Resistance |              |  |  |
| None             | 1 Phase     |          | <b>10</b>   | 0.1 $\mu$ F | <b>201</b> | 200 $\Omega$ |  |  |
| <b>3</b>         | 3 Phase     |          | <b>20</b>   | 0.2 $\mu$ F | <b>151</b> | 150 $\Omega$ |  |  |
| <b>6</b>         | 3 Phase     |          | <b>30</b>   | 0.3 $\mu$ F | <b>680</b> | 68 $\Omega$  |  |  |
|                  | 3 Line      |          | <b>50</b>   | 0.5 $\mu$ F | <b>500</b> | 50 $\Omega$  |  |  |

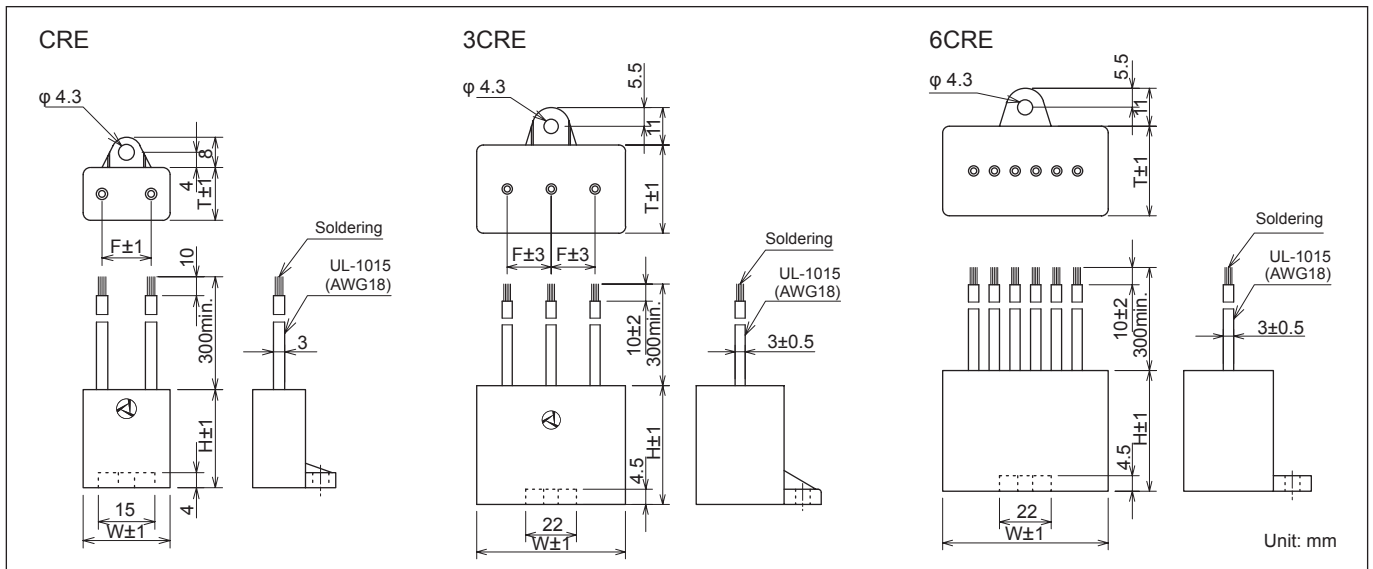
The combination of Resistance and Capacitance is shown in following chart.



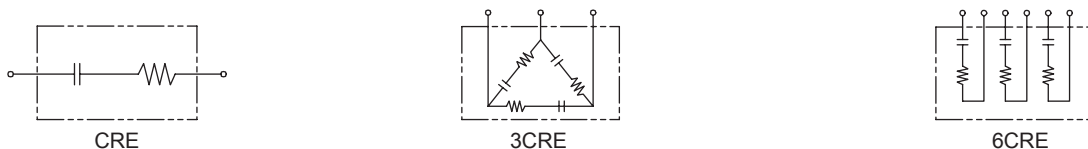
| Safety Standard |                        | File No. |
|-----------------|------------------------|----------|
| UL              | :UL1283                | E78644   |
| VDE             | :IEC/EN 60384-14: 2005 | 128527   |



## Dimensions



## Circuit



## Electrical Specifications

Rated Voltage **250VAC**

| Safety Standard | Class    | Model Number | Capacitance $\mu$ F $\pm$ 20% | Resistance $\Omega$ $\pm$ 30% | Dimensions |    |      |    | Pulse condition (max.) |   |   |                                   | Peak Pulse Voltage                      | Test Voltage                             | Insulation Resistance |     |
|-----------------|----------|--------------|-------------------------------|-------------------------------|------------|----|------|----|------------------------|---|---|-----------------------------------|---|--|-----------------------|-----|
|                 |          |              |                               |                               | W          | H  | T    | F  | Peak to peak           | Pulse width                               | Repetitive frequency                                  | Pulse width (sec) x Frequency(Hz) |   |  |                       |     |
|                 | X2       | CRE-10201    | 0.1                           | 200(1/2W)                     | 23         | 26 | 14   | 13 | 700V                   | 50msec.                                   | 360Hz.  | 800V max.                         | Line to Line<br>625VAC<br>50/60Hz 60sec | Line to Line<br>10,000M $\Omega$<br>min. |                       |     |
|                 |          | CRE-20151    | 0.2                           | 150(1/2W)                     |            |    |      |    |                        |   |   |                                   |   |  |                       |     |
|                 |          | CRE-30680    | 0.3                           | 68(1/2W)                      |            |    |      |    |                        |   |   |                                   |   |  |                       |     |
|                 |          | CRE-50500    | 0.5                           | 50(1/2W)                      |            |    |      |    |                        |   |   |                                   |   |  |                       |     |
|                 |          | 3CRE-30680*  | 0.3/1 phase                   | 68 (1/2W) /1 phase            | 44         | 35 | 26   | -  |                        |   |   |                                   |   |  | 70msec.               | 0.1 |
|                 |          | 3CRE-50500   | 0.5                           | 50(1/2W)                      |            |    |      |    |                        |   |   |                                   |   |  |                       |     |
| 6CRE-50500      | /1 phase | /1 phase     | 48                            |                               |            |    | 0.07 |    |                        | Line to Case<br>2,000VAC<br>50/60Hz 60sec | Line to Case<br>100,000M $\Omega$ min.<br>(at 500VDC) |                                   |   |  |                       |     |

\* 3CRE-30680 is not UL approved.

Operating Temperature: -40~+85°C