

**Surge protection**  
**VPU I 4 R LCF 280V/25KA****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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www.weidmueller.com

**Type I/II lightning arrester for use upstream of the electrical meter**

- With 25 kA (10/350  $\mu$ s) suitable for protective zones I, II, III and IV (LPL I/II/III/IV)
- With remote monitoring function, one changeover contact
- Tested according to IEC 61643-11 for type I and II surge protection
- Pluggable arrester

**General ordering data**

|            |                                                                                                                           |
|------------|---------------------------------------------------------------------------------------------------------------------------|
| Order No.  | <a href="#">1351720000</a>                                                                                                |
| Type       | VPU I 4 R LCF 280V/25KA                                                                                                   |
| Version    | Surge protection, Low voltage, Type I + II, 230 V, 25 kA , with telecomm. contact, LPL: I, II, III, $U_p$ : $\leq$ 1.6 kV |
| GTIN (EAN) | 4050118158441                                                                                                             |
| Qty.       | 1 pc(s).                                                                                                                  |

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## Technical data

### Dimensions and weights

|            |         |                             |        |
|------------|---------|-----------------------------|--------|
| Width      | 144 mm  | Height                      | 106 mm |
| Depth      | 69 mm   | Mounting dimension - height | 75 mm  |
| Net weight | 1,406 g |                             |        |

### Temperatures

|                     |                            |                       |                 |
|---------------------|----------------------------|-----------------------|-----------------|
| Humidity            | 0...95 % (no condensation) | Operating temperature | -40 °C...+70 °C |
| Storage temperature | -40 °C...+80 °C            |                       |                 |

### Discharge surge current of top part

|                                                 |        |                                         |       |
|-------------------------------------------------|--------|-----------------------------------------|-------|
| Limiting discharge current (8/20 µs) $I_{\max}$ | 100 kA | Rated discharge current (8/20 µs) $I_N$ | 25 kA |
|-------------------------------------------------|--------|-----------------------------------------|-------|

### General data

|                           |                                         |                          |                                                   |
|---------------------------|-----------------------------------------|--------------------------|---------------------------------------------------|
| Acoustic signal           | No                                      | Colour                   | Black, Arrester red                               |
| Design                    | Installation housing; 8 TE, Insta IP 20 | Lightning arrester       | Yes                                               |
| Mounting rail             | TS 35, TS 35 x 15, TS 35 x 7.5          | Optical function display | green = OK; red = arrester is defective - replace |
| Protection degree         | IP 20                                   | Segment                  | Power distribution                                |
| UL 94 flammability rating | V-0                                     |                          |                                                   |

### Insulation coordination acc. to EN 50178

|                    |   |                        |    |
|--------------------|---|------------------------|----|
| Pollution severity | 2 | Surge voltage category | IV |
|--------------------|---|------------------------|----|

### technical data

|                                                     |                            |                                                            |                     |
|-----------------------------------------------------|----------------------------|------------------------------------------------------------|---------------------|
| Rated voltage (AC)                                  | 230 V                      | Rated voltage                                              | 230 V               |
| Max. continuous voltage, $U_c$ (AC)                 | 280 V                      | Temporary surge voltage (over-voltage) - TOV               | 440 V               |
| Discharge current $I_n$ (8/20µs) wire-PE            | 100 kA                     | Discharge current $I_{\max}$ (8/20µs) wire-PE              | 100 kA              |
| Discharge current, max. (10/350 µs)                 | 25 kA                      | Limiting discharge current (8/20 µs) $I_{\max}$            | 100 kA              |
| Rated discharge current (8/20 µs) $I_N$             | 25 kA                      | Fuse, max.                                                 | 250 A gL            |
| Short-circuit current rating $I_{SCCR}$             | 25 kA                      | Discharge current, nominal, per path, (8/20 µs)            | 25 kA               |
| Total discharge current $I_{\text{total}}$          | 100 kA                     | Discharge current, max. (8/20 µs)                          | 100 kA              |
| Short-circuit strength with max. back-up fuse       | 25 kA <sub>eff</sub>       | Protection level $U_p$ (typ.)                              | ≤ 1.6 kV            |
| Leakage current at $U_n$                            | 30 µA                      | Signalling contact                                         | 250 V 1A 1CO        |
| Standards                                           | IEC61643-11, EN61643-11    | Colour                                                     | Black, Arrester red |
| Humidity                                            | 0...95 % (no condensation) | Requirements class, acc. to EN 61643-11                    | T1, T2              |
| Requirements category acc. to IEC 61643-11          | Type I, Type II            | Response time                                              | ≤ 100 ns            |
| Lightning test current $I_{\text{imp}}$ (10/350 µs) | 25 kA                      | Lightning test current $I_{\text{imp}}$ (10/350 µs) [L-PE] | 25 kA               |

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## Technical data

### Connection data

|                                                                 |                    |                                                                 |                     |
|-----------------------------------------------------------------|--------------------|-----------------------------------------------------------------|---------------------|
| Clamping range, rated connection                                | 16 mm <sup>2</sup> | Clamping range, rated connection, min.                          | 4 mm <sup>2</sup>   |
| Clamping range, rated connection, max.                          | 50 mm <sup>2</sup> | Wire connection cross section, stranded, rated connection, min. | 1.5 mm <sup>2</sup> |
| Wire connection cross section, stranded, rated connection, max. | 50 mm <sup>2</sup> | Tightening torque, min.                                         | 2 Nm                |
| Tightening torque, max.                                         | 3 Nm               | Stripping length, rated connection                              | 15 mm               |
| Wire connection cross section, finely stranded, max.            | 25 mm <sup>2</sup> |                                                                 |                     |

### Connection data, remote alert

|                                                                   |                      |                                                                   |                     |
|-------------------------------------------------------------------|----------------------|-------------------------------------------------------------------|---------------------|
| Connection type [remote alert]                                    | PUSH IN              | Stripping length [remote alert]                                   | 8 mm                |
| Cross-section for connected wire, solid core, min. [remote alert] | 0.14 mm <sup>2</sup> | Cross-section for connected wire, solid core, max. [remote alert] | 1.5 mm <sup>2</sup> |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000381    | UNSPSC     | 30-21-19-22 |
| eClass 4.1 | 27-14-02-01 | eClass 5.1 | 27-14-02-01 |
| eClass 6.2 | 27-13-08-02 | eClass 7.1 | 27-14-02-01 |

### Approvals

Approvals



ROHS Conform

### Downloads

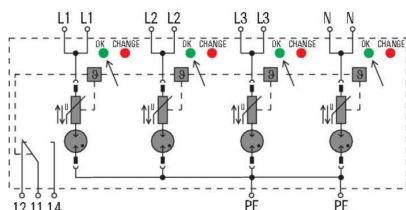
|                           |                                   |
|---------------------------|-----------------------------------|
| Package insert            | <a href="#">Instruction sheet</a> |
| Declaration of Conformity | <a href="#">K503_09_12.pdf</a>    |
| EPLAN                     | <a href="#">1351720000.ema</a>    |
| <a href="#">3-D model</a> |                                   |

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**Drawings**

**Electric symbol**



Circuit diagram