

## VPU I 4 400V/25KA

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)



Similar to illustration

### Type I/II lightning arrester for use in 400/690 V mains systems

- Can also be used as Type II surge protection
- 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

Version	Surge voltage arrester, Low voltage, without telecomm. contact, TN-C-S, TN-S
Order No.	<a href="#">1438010000</a>
Type	VPU I 4 400V/25KA
GTIN (EAN)	4050118243703
Qty.	1 Stück
Replacement parts	<a href="#">1351790000</a>

Erstellungs-Datum July 27, 2024 11:15:20 AM CEST

Katalogstand 13.07.2024 / Technische Änderungen vorbehalten

## VPU I 4 400V/25KA

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technische Daten

### Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	106 mm	Height (inches)	4.173 inch
Width	142.4 mm	Width (inches)	5.606 inch
Mounting dimension - height	75 mm	Net weight	1,530 g

### Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70
Humidity	5 - 95% rel. humidity		

### General data

Colour	black, orange	Design	Installation housing; 8 TE, Insta IP 20
Operating altitude	≤ 2000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20	Rail	TS 35
Segment	Power distribution	UL 94 flammability rating	V-0
Version	without telecomm. contact		

### Insulation coordination acc. to EN 50178

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

### Rated data IEC / EN

Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	100 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	25 kA
Energy coordination (≤10 m)	Type I, Type II, Type III	Follow-on current extinguishing capability $I_{fi}$	Not available due for technical reasons
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Fuse	No Fuse necessary ≤250 A gG, 250 A gL (if back up fuse > 250 A)	Leakage current at $U_n$	100 $\mu$ A
Lightning test current $I_{imp}$ (10/350 $\mu$ s) (L-PE)	25 kA	Low voltage network	TN-C-S, TN-S
Mains voltage	230 V / 400 V, 400 V / 690 V	Max. continuous voltage, $U_c$ (AC)	400 V
Number of poles	4	Protection level $U_p$ at $I_N$ (L/N-PE)	≤ 1.9 kV
Rated load current $I_L$	100 A	Rated voltage (AC)	400 V
Requirements category acc. to IEC 61643-11	Type I, Type II	Requirements class, acc. to EN 61643-11	T1, T2
Response time	≤ 25 ns	Short-circuit current rating $I_{SCCR}$	25 kA
Signalling contact	No	Standards	IEC61643-11, EN61643-11
Temporary surge voltage (over-voltage) - TOV	620 V	Voltage type	AC

## VPU I 4 400V/25KA

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

## Technische Daten

### Connection data

Stripping length	15 mm	Type of connection	Screw connection
Stripping length, rated connection	15 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	3 Nm	Clamping range, rated connection	16 mm <sup>2</sup>
Clamping range, min.	4 mm <sup>2</sup>	Clamping range, max.	35 mm <sup>2</sup>
Wire cross-section, solid, min.	2.5 mm <sup>2</sup>	Wire cross-section, solid, max.	16 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	2.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	25 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm <sup>2</sup>
Connection cross-section, stranded, min.	2.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	50 mm <sup>2</sup>

### Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	EC000941
ECLASS 9.0	27-13-08-05	ECLASS 9.1	27-13-08-05
ECLASS 10.0	27-13-08-05	ECLASS 11.0	27-13-08-05
ECLASS 12.0	27-17-90-90	ECLASS 13.0	27-17-90-90

VPU I 4 400V/25KA

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

Technische Daten

Tender specification sheets

Long specification

Multi-pin lightning arrester according to the requirements of Class I in accordance with IEC 61643-11, EN61643-11:2013. On interface transition from 0 to 1 (acc. to IEC 1312-1), the arrester serves as lightning protection providing equipotential bonding and is used in applications in accordance with IEC 61643-12. The use of a no-blow-out spark gap, in combination with a high-power varistor, fulfils the inspection requirements for Class I surge protection systems according to the VDEW (Association of German Power Stations) directive. The arrester is installed in a commercially available installation/electrical distribution enclosure, in the vicinity of the power-supply unit for the equipment that needs protection. The VPU I 3+1 R 400 V/25 kA is used in the TN-C and TN-C mains network. With thermal separation device on the varistor. In case of insufficient protection, the colour in the display window changes from green to red. The functional state is also displayed by a voltage-free signalling contact (changeover).  
 Rated voltage: 400 V  
 AC lightning test current (10/350 µs): 25 kA  
 protection level with lightning test current < 1.9 kV  
 25 kA short-circuit withstand rating with max. back-up fuse of 250 A  
 gl telecommunication output: contact: 250 V/0.5 A  
 48 VDC/0.1 A, type: Weidmüller VPU I 3+1 R 400 V/25 kA, Order No. 1351880000 or equivalent

Short specification

Class I arrester for LPL 1 with 25 kA, suitable for 400/690 V TN-CS, TT mains systems. Protection level < 1.9 kV. With remote alert, type: Weidmüller VPU I 3+1 R 400 V/25 kA, order no. 1351880000 or equivalent

Environmental Product Compliance

REACH SVHC	/
RoHS Compliance Status	Compliant without exemption

Erstellungs-Datum July 27, 2024 11:15:20 AM CEST

## VPU I 4 400V/25KA

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

## Technische Daten

### Approvals

Approvals



ROHS

Conform

### Downloads

Approval/Certificate/Document of  
Conformity

[EU Konformitätserklärung / EU Declaration of Conformity](#)

Engineering Data

[CAD data – STEP](#)

User Documentation

[Beipackzettel / Instruction sheet](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

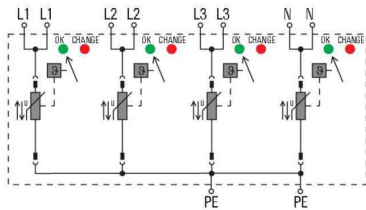
VPU I 4 400V/25KA

Weidmüller Interface GmbH & Co. KG  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

www.weidmueller.com

Zeichnungen

Electric symbol



Schematic circuit diagram