

**VPU II 4 R LCF 280V/40KA****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Type II/III surge protection  $U_c$ : 280 V**  
**Suitable for 230/400 V mains systems**

- Leakage current free, pluggable arrester
- Coded voltage level
- High energy absorption with short time to sparkover
- No follow current
- Installation in distribution board
- Thermal protection function
- Co-ordination with VPU Type I

**General ordering data**

Version	Surge voltage arrester, Low voltage, with remote contact, TN-C-S, TN-S
Order No.	<a href="#">1352780000</a>
Type	VPU II 4 R LCF 280V/40KA
GTIN (EAN)	4050118157604
Qty.	1 pc(s).
Delivery status	<b>This article will no longer be available in the future.</b>
Available until	2024-03-31
Replacement parts	<a href="#">1352730000</a> <a href="#">1402570000</a>

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## Technical data

## Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	106 mm	Height (inches)	4.173 inch
Width	71.2 mm	Width (inches)	2.803 inch
Mounting dimension - height	75 mm	Net weight	560 g

## Temperatures

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

## Connection data, remote alert

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

## General data

Colour	black, orange	Design	Installation housing; 4TE, Insta IP 20
Optical function display	green = OK; red = arrester is defective - replace	Protection degree	IP20
Rail	TS 35	UL 94 flammability rating	V-0
Version	with remote contact		

## Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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## Rated data IEC / EN

Combined pulse $U_{OC}$	10 kV	Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	40 kA
Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	20 kA	Energy coordination ( $\leq 10$ m)	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	125 A gL > (if back up fuse > 125 A), No Fuse necessary $\leq 125$ A gG
Leakage current at $U_n$	1 $\mu$ A	Low voltage network	TN-C-S, TN-S
Mains voltage	230 V / 400 V	Max. continuous voltage, $U_c$ (AC)	280 V
Number of poles	4	Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq 1.8$ kV
Rated voltage (AC)	230 V	Requirements category acc. to IEC 61643-11	Type II, Type III
Requirements class, acc. to EN 61643-11	T2, T3	Response time	$\leq 100$ ns
Short-circuit current rating $I_{SCCR}$	25 kA	Signalling contact	250 V 1A 1CO
Standards	IEC61643-11, EN61643-11	Temporary surge voltage (over-voltage) - TOV	438 V
Voltage type	AC		

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## Connection data

Stripping length	15 mm	Wire connection method	Screw connection
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.	1.5 mm <sup>2</sup>
Clamping range, max.	35 mm <sup>2</sup>	Wire cross-section, solid, min.	1.5 mm <sup>2</sup>
Wire cross-section, solid, max.	16 mm <sup>2</sup>	Wire connection cross section, finely stranded, min.	1.5 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.	1.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm <sup>2</sup>	Connection cross-section, stranded, min.	1.5 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

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## Technical data

## Tender specification sheets

## Long specification

Multi-pole surge voltage arrester according to the requirements of Class II acc. to IEC 61643-11, EN61643-11:2013. Consisting of V0 material, the arrester serves as overvoltage protection and is used in applications according to IEC 61643-12. The use of a high-performance varistor in combination with sparkover gaps satisfies the inspection requirements for Class II surge protection systems on the basis of the standards. The leakage current-free arrester is installed in the vicinity of the power supply for the equipment that needs protection, in a commercially available installation/electrical distribution enclosure. The VPU II 4 R LCF 280 V/40 kA is used in the TN-S mains network. With thermal separation device on the varistor. If protection is no longer available, 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: 230 VAC In/max (8/20 µs): 20/40 kA protection level < 1.8 kV combined pulse Uoc: 10 kV 25 kA short-circuit strength with max. back-up fuse of 125 A gl telecommunication output: contact: 250 V/0.5 A 48 VDC/0.1 A Type: Weidmüller VPU II 4 R LCF 280 V/40 kA Order No. 1352780000 or equivalent

## Short specification

Class II arrester with In/Imax: 20/40 kA suitable for 230/400 V TN-S mains systems. Protection level < 1.8 kV. With remote alert Type: Weidmüller VPU II 4 R LCF 280 V/40 kA Order no. 1352780000 or equivalent

## Approvals

## Approvals



ROHS

Conform

### VPU II 4 R LCF 280V/40KA

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## Technical data

### 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

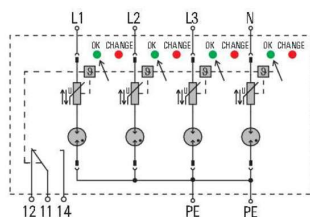
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## Drawings

### Electric symbol



Schematic circuit diagram

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Crosshead screwdriver Phillips**

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

**General ordering data**

Type	SDIK PH1 X 80	Version
Order No.	<a href="#">2749890000</a>	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118897098	
Qty.	1 pc(s).	

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## Replacement parts

### Spare arrester VPU II



#### Spare arrester Type II

Weidmüller VPU II surge protection products protect low-voltage consumer installations and electronic devices against overvoltages that can occur as a result of atmospheric discharges (thunderstorms) or switching operations (transients). The VPU II series meets the Type II and Type III requirements acc. to IEC 61643-11:2012 and Type 2 and Type 3 requirements acc. to EN 61643-11:2012. The spare arresters are coded and can only be inserted into suitable bases.

#### General ordering data

Type	VPU II 0 LCF 280V/40KA	Version
Order No.	<a href="#">1352730000</a>	Surge voltage arrester, Low voltage, Accessories, Spare arrester
GTIN (EAN)	4050118157642	
Qty.	1 pc(s).	

### VPU Series



Extensive accessories round off the product range

#### General ordering data

Type	PLUG VPU	Version
Order No.	<a href="#">1402570000</a>	VPU series, Accessories
GTIN (EAN)	4050118204360	
Qty.	10 pc(s).	