Variable installation
Thanks to the leakage current-free technology, the arrester can be installed both upstream and downstream of the electricity meter in accordance with VDE-AR-N 4100.

Universally applicable
The high lightning impulse current (10/350 µs) up to 25 kA enables universal use in all lightning protection classes – from LPL I to LPL IV.

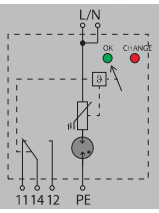
Status display and fault signalling
Equipped with a clearly visible status window for error signalling directly on the unit as well as with a pluggable remote signalling contact for error signalling to the higher-level control system.

Comprehensively tested
The combined arresters type I+II are tested as lightning protection (test pulse 10/350 µs) as well as surge protection (test pulse 8/20 µs).

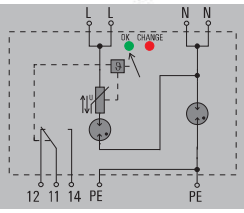
Type I - Leakage current free 25 kA / 275 V

- No-leakage-current version suitable for use upstream of the electrical meter
- Non-pluggable arrester
- Suitable with 25 kA (10/350 µs) for protection levels I, II, III and IV (LPL I/II/III/IV)
- Tested according to IEC 61643-11 for Type I and II surge protection
- Can also be used for Type II surge protection

VPU AC I 1 R 275/25 LCF MB



VPU AC I 1+1 R 275/25 LCF MB



Technical data

Requirements category acc. to IEC/EN 61643-11	Type I, Type II / T1, T2	Type I, Type II / T1, T2
Energy coordination (≤10 m)	Type I, Type II, Type III	Type I, Type II, Type III
Rated voltage (AC)	230 V	230 V
Max. continuous voltage, U_C (L-N / N-PE)	275 V /	275 V / 255 V
Low voltage network	Single-phase, TN	Single-phase, TN, TT, IT with N, IT without N
Lightning test current I_{imp} (10/350 µs) (L-PE / N-PE)	25 kA /	25 kA / 50 kA
Discharge current I_n (8/20µs) (Ader-PE / N-PE)	25 kA /	25 kA / 50 kA
Discharge current I_{max} (8/20µs) (Ader-PE / N-PE)	100 kA /	100 kA / 100 kA
Protection level U_p at I_N (L/N-PE)	≤ 1.5 kV	≤ 1.5 kV
Protection level U_p at I_N (N-PE)		≤ 1.5 kV
Rated load current I_L	100 A	100 A
Fuse	No Fuse neccessary ≤250 A gG, 250 A gL (if main fuse > 250 A)	No Fuse neccessary ≤250 A gG, 250 A gL (if main fuse > 250 A)
Short-circuit current rating I_{SCCR}	50 kA	50 kA
Temporary surge voltage (over-voltage) - TOV	438 V	438 V
Response time	≤ 25 ns	≤ 25 ns
Optical function display	green = OK; red = arrester is defective - replace	green = OK; red = arrester is defective - replace
Design	Installation housing; 2TE, Insta IP 20	Installation housing; 4TE, Insta IP 20
Ambient temperature (operational)	-40 °C...85 °C	-40 °C...85 °C
Operating altitude	≤ 2000 m	≤ 2000 m
Connection data		
Solid	1.5...16 mm²	1.5...16 mm²
Stranded	1.5...35 mm²	1.5...35 mm²
Stripping length	18 mm	18 mm
Tightening torque	3...4.5 Nm	3...4.5 Nm
Approvals		
Approvals	CE	CE
Standards	IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11

Dimensions / Remote signalling contact info		**with remote signalling (R)**	**with remote signalling (R)**
Clamping range (nominal / min. / max.)	mm²	16 / 1.5 / 35	16 / 1.5 / 35
Height x width x depth	mm	99 / 35 / 71	99 / 70 / 71
Signalling contact		250 V 1A 1CO	250 V 1A 1CO
Note		Wire-end ferrules must be used when connecting finely stranded wire.	Wire-end ferrules must be used when connecting finely stranded wire.

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
with remote signalling contact (R)	VPU AC I 1 R 275/25 LCF MB	1	**2774940000**	VPU AC I 1+1 R 275/25 LCF MB	1	**2775000000**
Note				Only for IT networks where the earth at the distribution transformer is connected to the earth on the customer side.		

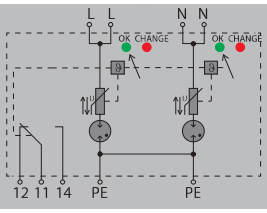
Accessories

Note

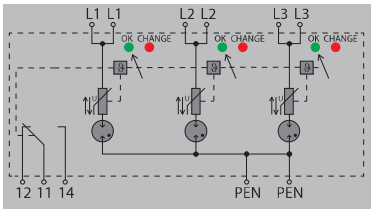
Type I - Leakage current free 25 kA / 275 V

- No-leakage-current version suitable for use upstream of the electrical meter
- Non-pluggable arrester
- Suitable with 25 kA (10/350 µs) for protection levels I, II, III and IV (LPL I/II/III/IV)
- Tested according to IEC 61643-11 for Type I and II surge protection
- Can also be used for Type II surge protection

VPU AC I 2 R 275/25 LCF MB



VPU AC I 3 R 275/25 LCF MB



Technical data

Requirements category acc. to IEC/EN 61643-11	Type I, Type II / T1, T2	Type I, Type II / T1, T2
Energy coordination (≤10 m)	Type I, Type II, Type III	Type I, Type II, Type III
Rated voltage (AC)	230 V	230 V
Max. continuous voltage, U_C (L-N / N-PE)	275 V /	275 V /
Low voltage network	Single-phase, TN-S	TN-C
Lightning test current I_{imp} (10/350 µs) (L-PE / N-PE)	25 kA /	25 kA /
Discharge current I_n (8/20µs) (Ader-PE / N-PE)	25 kA /	25 kA /
Discharge current I_{max} (8/20µs) (Ader-PE / N-PE)	100 kA /	100 kA /
Protection level U_p at I_N (L/N-PE)	≤ 1.5 kV	≤ 1.5 kV
Protection level U_p at I_N (N-PE)		
Rated load current I_L	100 A	100 A
Fuse	No Fuse neccessary ≤250 A gG, 250 A gL (if main fuse > 250 A)	No Fuse neccessary ≤250 A gG, 250 A gL (if main fuse > 250 A)
Short-circuit current rating I_{SCCR}	50 kA	50 kA
Temporary surge voltage (over-voltage) - TOV	438 V	438 V
Response time	≤ 25 ns	≤ 25 ns
Optical function display	green = OK; red = arrester is defective - replace	green = OK; red = arrester is defective - replace
Design	Installation housing; 4TE, Insta IP 20	Installation housing; 6 TE, Insta IP 20
Ambient temperature (operational)	-40 °C...85 °C	-40 °C...85 °C
Operating altitude	≤ 2000 m	≤ 2000 m
Connection data		
Solid	1.5...16 mm²	1.5...16 mm²
Stranded	1.5...35 mm²	1.5...35 mm²
Stripping length	18 mm	18 mm
Tightening torque	3...4.5 Nm	3...4.5 Nm
Approvals		
Approvals	CE	CE
Standards	IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11

Dimensions / Remote signalling contact info		**with remote signalling (R)**	**with remote signalling (R)**
Clamping range (nominal / min. / max.)	mm²	16 / 1.5 / 35	16 / 1.5 / 35
Height x width x depth	mm	99 / 70 / 71	99 / 105 / 71
Signalling contact		250 V 1A 1CO	250 V 1A 1CO
Note		Wire-end ferrules must be used when connecting finely stranded wire.	Wire-end ferrules must be used when connecting finely stranded wire.

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
with remote signalling contact (R)	VPU AC I 2 R 275/25 LCF MB	1	2774950000	VPU AC I 3 R 275/25 LCF MB	1	2774960000

Note

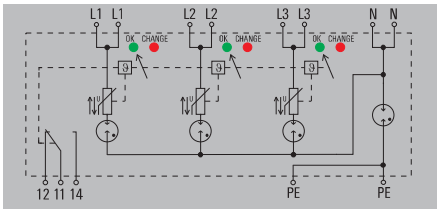
Accessories

Note

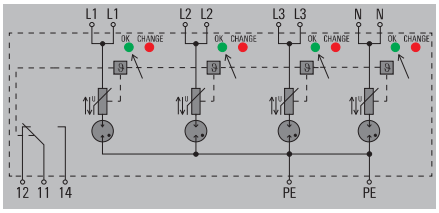
Type I - Leakage current free 25 kA / 275 V

- No-leakage-current version suitable for use upstream of the electrical meter
- Non-pluggable arrester
- Suitable with 25 kA (10/350 µs) for protection levels I, II, III and IV (LPL I/II/III/IV)
- Tested according to IEC 61643-11 for Type I and II surge protection
- Can also be used for Type II surge protection

VPU AC I 3+1 R 275/25 LCF MB



VPU AC I 4 R 275/25 LCF MB



Technical data

Requirements category acc. to IEC/EN 61643-11	Type I, Type II / T1, T2	Type I, Type II / T1, T2
Energy coordination (≤10 m)	Type I, Type II, Type III	Type I, Type II, Type III
Rated voltage (AC)	230 V	230 V
Max. continuous voltage, U_C (L-N / N-PE)	275 V / 255 V	275 V /
Low voltage network	TN-C-S, TN-S, TT, IT with N, IT without N	TN-C-S, TN-S
Lightning test current I_{imp} (10/350 µs) (L-PE / N-PE)	25 kA / 100 kA	25 kA /
Discharge current I_n (8/20µs) (Ader-PE / N-PE)	25 kA / 100 kA	25 kA /
Discharge current I_{max} (8/20µs) (Ader-PE / N-PE)	100 kA / 100 kA	100 kA /
Protection level U_p at I_N (L/N-PE)	≤ 1.5 kV	≤ 1.5 kV
Protection level U_p at I_N (N-PE)	≤ 1.5 kV	
Rated load current I_L	100 A	100 A
Fuse	No Fuse neccessary ≤250 A gG, 250 A gL (if main fuse > 250 A)	No Fuse neccessary ≤250 A gG, 250 A gL (if main fuse > 250 A)
Short-circuit current rating I_{SCCR}	50 kA	50 kA
Temporary surge voltage (over-voltage) - TOV	438 V	438 V
Response time	≤ 25 ns	≤ 25 ns
Optical function display	green = OK; red = arrester is defective - replace	green = OK; red = arrester is defective - replace
Design	Installation housing; 8 TE, Insta IP 20	Installation housing; 8 TE, Insta IP 20
Ambient temperature (operational)	-40 °C...85 °C	-40 °C...85 °C
Operating altitude	≤ 2000 m	≤ 2000 m
Connection data		
Solid	1.5...16 mm²	1.5...16 mm²
Stranded	1.5...35 mm²	1.5...35 mm²
Stripping length	18 mm	18 mm
Tightening torque	3...4.5 Nm	3...4.5 Nm
Approvals		
Approvals	CE	CE
Standards	IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11

Dimensions / Remote signalling contact info		**with remote signalling (R)**	**with remote signalling (R)**
Clamping range (nominal / min. / max.)	mm²	16 / 1.5 / 35	16 / 1.5 / 35
Height x width x depth	mm	99 / 144 / 71	99 / 144 / 71
Signalling contact		250 V 1A 1CO	250 V 1A 1CO
Note		Wire-end ferrules must be used when connecting finely stranded wire.	Wire-end ferrules must be used when connecting finely stranded wire.

Ordering data

	Type	Qty.	Order No.
with remote signalling contact (R)	VPU AC I 3+1 R 275/25 LCF MB	1	**2638070000**
	VPU AC I 4 R 275/25 LCF MB	1	**2774990000**

Note	
	Only for IT networks where the earth at the distribution transformer is connected to the earth on the customer side.

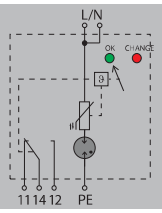
Accessories

Note		

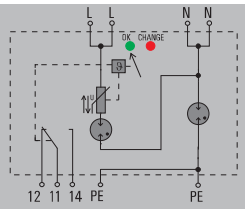
Type I - Leakage current free 25 kA / 440 V

- Back-up fuse not necessary up to 250 A
- Leakage current-free design suitable for use in the pre-metering area
- Non-pluggable arrester
- Suitable with 25 kA (10/350µs) for protection levels I, II, III and IV (LPL I/II/III/IV)
- Tested according to IEC/EN61643-11 as Type I and Type II

VPU AC I 1 (R) 440/25 LCF



VPU AC I 1+1 (R) 440/25 LCF



Technical data

Requirements category acc. to IEC/EN 61643-11	Type I, Type II / T1, T2	Type I, Type II / T1, T2
Energy coordination (≤10 m)	Type I, Type II, Type III	Type I, Type II, Type III
Rated voltage (AC)	400 V	400 V
Max. continuous voltage, U_C (L-N / N-PE)	440 V /	440 V / 440 V
Low voltage network	Single-phase, TN	Single-phase, TN, TT, IT with N, IT without N
Lightning test current I_{imp} (10/350 µs) (L-PE / N-PE)	25 kA /	25 kA / 100 kA
Discharge current I_n (8/20µs) (Ader-PE / N-PE)	25 kA /	25 kA / 100 kA
Discharge current I_{max} (8/20µs) (Ader-PE / N-PE)	100 kA /	100 kA / 100 kA
Protection level U_p at I_N (L/N-PE)	≤ 2.5 kV	≤ 2.5 kV
Protection level U_p at I_N (N-PE)		≤ 2.5 kV
Rated load current I_L	100 A	100 A
Fuse	250 A gL (if main fuse > 250 A)	250 A gL (if main fuse > 250 A)
Short-circuit current rating I_{SCCR}	50 kA	50 kA
Temporary surge voltage (over-voltage) - TOV	762 V	762 V
Response time	≤ 25 ns	≤ 25 ns
Optical function display	green = OK; red = arrester is defective - replace	green = OK; red = arrester is defective - replace
Design	Installation housing; 2TE, Insta IP 20	Installation housing; 4TE, Insta IP 20
Ambient temperature (operational)	-40 °C...85 °C	-40 °C...85 °C
Operating altitude	≤ 2000 m	≤ 2000 m
Connection data		
Solid	6...16 mm²	6...16 mm²
Stranded	6...35 mm²	6...35 mm²
Stripping length	13 mm	13 mm
Tightening torque	2...3 Nm	2...3 Nm
Approvals		
Approvals	CE	CE
Standards	IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11

Dimensions / Remote signalling contact info		**no remote sig. contact**	**with remote signalling (R)**	**no remote sig. contact**	**with remote signalling (R)**
Clamping range (nominal / min. / max.)	mm²	16 / 6 / 35	16 / 6 / 35	16 / 6 / 35	16 / 6 / 35
Height x width x depth	mm	90 / 36 / 93	104.5 / 36 / 93	90 / 72 / 93	104.5 / 72 / 93
Signalling contact		No	250 V 1A 1CO	No	250 V 1A 1CO
Note		Wire-end ferrules must be used when connecting finely stranded wire.		Wire-end ferrules must be used when connecting finely stranded wire.	

Ordering data

	Type	**Qty.**	**Order No.**
without remote signalling contact	VPU AC I 1 440/25 LCF	1	**2619100000**
with remote signalling contact (R)	VPU AC I 1 R 440/25 LCF	1	**2619120000**

	Type	**Qty.**	**Order No.**
	VPU AC I 1+1 440/25 LCF	1	**2619210000**
	VPU AC I 1+1 R 440/25 LCF	1	**2619220000**

Note		Only for IT networks where the earth at the distribution transformer is connected to the earth on the customer side.

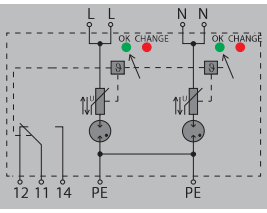
Accessories

Note		

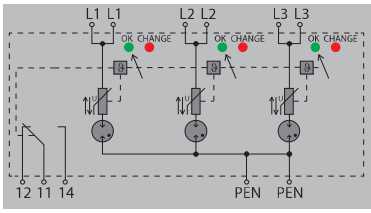
Type I - Leakage current free 25 kA / 440 V

- Back-up fuse not necessary up to 250 A
- Leakage current-free design suitable for use in the pre-metering area
- Non-pluggable arrester
- Suitable with 25 kA (10/350µs) for protection levels I, II, III and IV (LPL I/II/III/IV)
- Tested according to IEC/EN61643-11 as Type I and Type II

VPU AC I 2 (R) 440/25 LCF



VPU AC I 3 (R) 440/25 LCF



Technical data

Requirements category acc. to IEC/EN 61643-11	Type I, Type II / T1, T2	Type I, Type II / T1, T2
Energy coordination (≤10 m)	Type I, Type II, Type III	Type I, Type II, Type III
Rated voltage (AC)	400 V	400 V
Max. continuous voltage, U_C (L-N / N-PE)	440 V /	440 V /
Low voltage network	Single-phase, TN-S	TN-C
Lightning test current I_{imp} (10/350 µs) (L-PE / N-PE)	25 kA /	25 kA /
Discharge current I_n (8/20µs) (Ader-PE / N-PE)	25 kA /	25 kA /
Discharge current I_{max} (8/20µs) (Ader-PE / N-PE)	100 kA /	100 kA /
Protection level U_p at I_N (L/N-PE)	≤ 2.5 kV	≤ 2.5 kV
Protection level U_p at I_N (N-PE)		
Rated load current I_L	100 A	100 A
Fuse	250 A gL (if main fuse > 250 A)	250 A gL (if main fuse > 250 A)
Short-circuit current rating I_{SCCR}	50 kA	50 kA
Temporary surge voltage (over-voltage) - TOV	762 V	762 V
Response time	≤ 25 ns	≤ 25 ns
Optical function display	green = OK; red = arrester is defective - replace	green = OK; red = arrester is defective - replace
Design	Installation housing; 4TE, Insta IP 20	Installation housing; 6 TE, Insta IP 20
Ambient temperature (operational)	-40 °C...85 °C	-40 °C...85 °C
Operating altitude	≤ 2000 m	≤ 2000 m
Connection data		
Solid	6...16 mm²	6...16 mm²
Stranded	6...35 mm²	6...35 mm²
Stripping length	13 mm	13 mm
Tightening torque	2...3 Nm	2...3 Nm
Approvals		
Approvals	CE	CE
Standards	IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11

Dimensions / Remote signalling contact info		**no remote sig. contact**	**with remote signalling (R)**	**no remote sig. contact**	**with remote signalling (R)**
Clamping range (nominal / min. / max.)	mm²	16 / 6 / 35	16 / 6 / 35	16 / 6 / 35	16 / 6 / 35
Height x width x depth	mm	90 / 72 / 93	104.5 / 72 / 93	90 / 108 / 93	104.5 / 108 / 93
Signalling contact		No	250 V 1A 1CO	No	250 V 1A 1CO
Note		Wire-end ferrules must be used when connecting finely stranded wire.		Wire-end ferrules must be used when connecting finely stranded wire.	

Ordering data

	Type	**Qty.**	**Order No.**	**Type**	**Qty.**	**Order No.**
without remote signalling contact	VPU AC I 2 440/25 LCF	1	**2619130000**	VPU AC I 3 440/25 LCF	1	**2619160000**
with remote signalling contact (R)	VPU AC I 2 R 440/25 LCF	1	**2619140000**	VPU AC I 3 R 440/25 LCF	1	**2619170000**
Note						

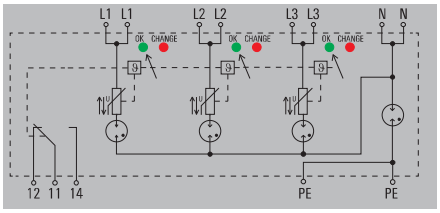
Accessories

Note

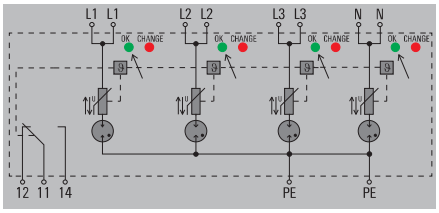
Type I - Leakage current free 25 kA / 440 V

- Back-up fuse not necessary up to 250 A
- Leakage current-free design suitable for use in the pre-metering area
- Non-pluggable arrester
- Suitable with 25 kA (10/350µs) for protection levels I, II, III and IV (LPL I/II/III/IV)
- Tested according to IEC/EN61643-11 as Type I and Type II

VPU AC I 3+1 (R) 440/25 LCF



VPU AC I 4 (R) 440/25 LCF



Technical data

Requirements category acc. to IEC/EN 61643-11	Type I, Type II / T1, T2	Type I, Type II / T1, T2
Energy coordination (≤10 m)	Type I, Type II, Type III	Type I, Type II, Type III
Rated voltage (AC)	400 V	400 V
Max. continuous voltage, U_C (L-N / N-PE)	440 V / 440 V	440 V /
Low voltage network	TN-C-S, TN-S, TT, IT with N, IT without N	TN-C-S, TN-S
Lightning test current I_{imp} (10/350 µs) (L-PE / N-PE)	25 kA / 100 kA	25 kA /
Discharge current I_n (8/20µs) (Ader-PE / N-PE)	25 kA / 100 kA	25 kA /
Discharge current I_{max} (8/20µs) (Ader-PE / N-PE)	100 kA / 100 kA	100 kA /
Protection level U_p at I_N (L/N-PE)	≤ 2.5 kV	≤ 2.5 kV
Protection level U_p at I_N (N-PE)	≤ 2.5 kV	≤ 2.5 kV
Rated load current I_L	100 A	100 A
Fuse	250 A gL (if main fuse > 250 A)	250 A gL (if main fuse > 250 A)
Short-circuit current rating I_{SCCR}	50 kA	50 kA
Temporary surge voltage (over-voltage) - TOV	762 V	762 V
Response time	≤ 25 ns	≤ 25 ns
Optical function display	green = OK; red = arrester is defective - replace	green = OK; red = arrester is defective - replace
Design	Installation housing; 8 TE, Insta IP 20	Installation housing; 8 TE, Insta IP 20
Ambient temperature (operational)	-40 °C...85 °C	-40 °C...85 °C
Operating altitude	≤ 2000 m	≤ 2000 m
Connection data		
Solid	6...16 mm²	6...16 mm²
Stranded	6...35 mm²	6...35 mm²
Stripping length	13 mm	13 mm
Tightening torque	2...3 Nm	2...3 Nm
Approvals		
Approvals	CE	CE
Standards	IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11

Dimensions / Remote signalling contact info		**no remote sig. contact**	**with remote signalling (R)**	**no remote sig. contact**	**with remote signalling (R)**
Clamping range (nominal / min. / max.)	mm²	16 / 6 / 35	16 / 6 / 35	16 / 6 / 35	16 / 6 / 35
Height x width x depth	mm	90 / 144 / 93	104.5 / 144 / 93	90 / 144 / 93	104.5 / 144 / 93
Signalling contact		No	250 V 1A 1CO	No	250 V 1A 1CO
Note		Wire-end ferrules must be used when connecting finely stranded wire.		Wire-end ferrules must be used when connecting finely stranded wire.	

Ordering data

	Type	**Qty.**	**Order No.**
without remote signalling contact	VPU AC I 3+1 440/25 LCF	1	**2619240000**
with remote signalling contact (R)	VPU AC I 3+1 R 440/25 LCF	1	**2619260000**

	Type	**Qty.**	**Order No.**
	VPU AC I 4 440/25 LCF	1	**2619190000**
	VPU AC I 4 R 440/25 LCF	1	**2619200000**

Note	
	Only for IT networks where the earth at the distribution transformer is connected to the earth on the customer side.

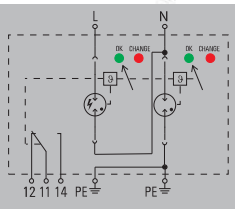
Accessories

Note		

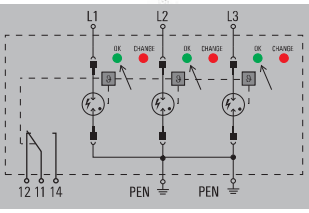
Type I - Leakage current free 12.5 kA / 255 V

- Back-up fuse not required up to 250 A
- Leakage current-free design suitable for use in the pre-metering area
- Non-pluggable arrester
- Suitable with 12.5 kA for LPL III/IV
- Tested according to IEC/EN61643-11 as type I, II and III
- Innovative spark gap technology

VPU AC I 1+1 (R) 255/12.5 LCF MB



VPU AC I 3 (R) 255/12.5 LCF MB



Technical data

Requirements category acc. to IEC/EN 61643-11	Type I, Type II / T1, T2	Type I, Type II / T1, T2
Energy coordination (≤10 m)	Type I, Type II, Type III	Type I, Type II, Type III
Rated voltage (AC)	230 V	230 V
Max. continuous voltage, U_C (L-N / N-PE)	255 V / 305 V	255 V /
Low voltage network	Single-phase, TN, TT, IT with N, IT without N	TN-C
Lightning test current I_{imp} (10/350 µs) (L-PE / N-PE)	12.5 kA / 50 kA	12.5 kA /
Discharge current I_n (8/20µs) (Ader-PE / N-PE)	20 kA /	20 kA /
Discharge current I_{max} (8/20µs) (Ader-PE / N-PE)	50 kA /	50 kA /
Protection level U_p at I_N (L/N-PE)	≤ 1.5 kV	≤ 1.5 kV
Protection level U_p at I_N (N-PE)	≤ 1.5 kV	
Rated load current I_L		
Fuse	No Fuse neccessary ≤250 A gG	No Fuse neccessary ≤250 A gG
Short-circuit current rating I_{SCCR}	25 kA	25 kA
Temporary surge voltage (over-voltage) - TOV	442 V	442 V
Response time	<100 ns	<100 ns
Optical function display	green = OK; red = arrester is defective - replace	green = OK; red = arrester is defective - replace
Design	Installation housing; 2TE, Insta IP 20	Installation housing; 4TE, Insta IP 20
Ambient temperature (operational)	-40 °C...85 °C	-40 °C...85 °C
Operating altitude	≤ 4000 m	≤ 4000 m
Connection data		
Solid	1.5...16 mm²	1.5...16 mm²
Stranded	1.5...35 mm²	1.5...35 mm²
Stripping length	18 mm	18 mm
Tightening torque	3...4.5 Nm	3...4.5 Nm
Approvals		
Approvals	CE; VDE	CE; VDE
Standards	IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11

Dimensions / Remote signalling contact info		**no remote sig. contact**	**with remote signalling (R)**	**no remote sig. contact**	**with remote signalling (R)**
Clamping range (nominal / min. / max.)	mm²	16 / 1.5 / 35	16 / 1.5 / 35	16 / 1.5 / 35	16 / 1.5 / 35
Height x width x depth	mm	90 / 36 / 65	105 / 36 / 65	90 / 72 / 65	105 / 72 / 65
Signalling contact		No	250 V 1A 1CO	No	250 V 1A 1CO
Note		Wire-end ferrules must be used when connecting finely stranded wire.		Wire-end ferrules must be used when connecting finely stranded wire.	

Ordering data

	Type	**Qty.**	**Order No.**
without remote signalling contact	VPU AC I 1+1 255/12.5 LCF MB	1	**2976580000**
with remote signalling contact (R)	VPU AC I 1+1 R 255/12.5 LCF MB	1	**2976590000**

Note
Only for IT networks where the earth at the distribution transformer is connected-to the earth on the customer side.

Type	**Qty.**	**Order No.**
VPU AC I 3 255/12.5 LCF MB	1	**2976600000**
VPU AC I 3 R 255/12.5 LCF MB	1	**2976610000**

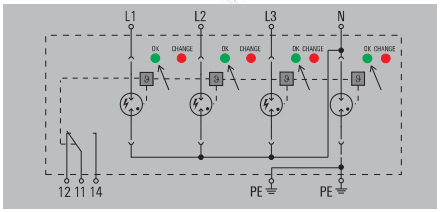
Accessories

Note

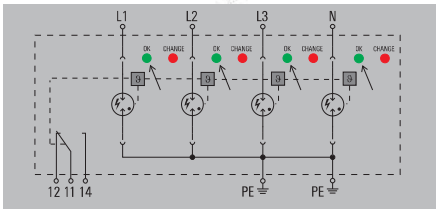
Type I - Leakage current free 12.5 kA / 255 V

- Back-up fuse not required up to 250 A
- Leakage current-free design suitable for use in the pre-metering area
- Non-pluggable arrester
- Suitable with 12.5 kA for LPL III/IV
- Tested according to IEC/EN61643-11 as type I, II and III
- Innovative spark gap technology

VPU AC I 3+1 (R) 255/12.5 LCF MB



VPU AC I 4 (R) 255/12.5 LCF MB



Technical data

Requirements category acc. to IEC/EN 61643-11	Type I, Type II / T1, T2	Type I, Type II / T1, T2
Energy coordination (≤10 m)	Type I, Type II, Type III	Type I, Type II, Type III
Rated voltage (AC)	230 V	230 V
Max. continuous voltage, U_C (L-N / N-PE)	255 V / 305 V	255 V /
Low voltage network	TN-C-S, TN-S, TT, IT with N, IT without N	TN-C-S, TN-S
Lightning test current I_{imp} (10/350 µs) (L-PE / N-PE)	12.5 kA / 50 kA	12.5 kA /
Discharge current I_n (8/20µs) (Ader-PE / N-PE)	20 kA /	20 kA /
Discharge current I_{max} (8/20µs) (Ader-PE / N-PE)	50 kA /	50 kA /
Protection level U_p at I_N (L/N-PE)	≤ 1.5 kV	≤ 1.5 kV
Protection level U_p at I_N (N-PE)	≤ 1.5 kV	≤ 1.5 kV
Rated load current I_L		
Fuse	No Fuse neccessary ≤250 A gG	No Fuse neccessary ≤250 A gG
Short-circuit current rating I_{SCCR}	25 kA	25 kA
Temporary surge voltage (over-voltage) - TOV	442 V	442 V
Response time	<100 ns	<100 ns
Optical function display	green = OK; red = arrester is defective - replace	green = OK; red = arrester is defective - replace
Design	Installation housing; 4TE, Insta IP 20	Installation housing; 4TE, Insta IP 20
Ambient temperature (operational)	-40 °C...85 °C	-40 °C...85 °C
Operating altitude	≤ 4000 m	≤ 4000 m
Connection data		
Solid	1.5...16 mm²	1.5...16 mm²
Stranded	1.5...35 mm²	1.5...35 mm²
Stripping length	18 mm	18 mm
Tightening torque	3...4.5 Nm	3...4.5 Nm
Approvals		
Approvals	CE; VDE	CE; VDE
Standards	IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11

Dimensions / Remote signalling contact info		**no remote sig. contact**	**with remote signalling (R)**	**no remote sig. contact**	**with remote signalling (R)**
Clamping range (nominal / min. / max.)	mm²	16 / 1.5 / 35	16 / 1.5 / 35	16 / 1.5 / 35	16 / 1.5 / 35
Height x width x depth	mm	90 / 72 / 65	105 / 72 / 65	90 / 72 / 65	105 / 72 / 65
Signalling contact		No	250 V 1A 1CO	No	250 V 1A 1CO
Note		Wire-end ferrules must be used when connecting finely stranded wire.		Wire-end ferrules must be used when connecting finely stranded wire.	

Ordering data

	Type	**Qty.**	**Order No.**
without remote signalling contact	VPU AC I 3+1 255/12.5 LCF MB	1	**2976620000**
with remote signalling contact (R)	VPU AC I 3+1 R 255/12.5 LCF MB	1	**2976630000**

	Type	**Qty.**	**Order No.**
	VPU AC I 4 255/12.5 LCF MB	1	**2976640000**
	VPU AC I 4 R 255/12.5 LCF MB	1	**2976650000**

Note	
	Only for IT networks where the earth at the distribution transformer is connected-to the earth on the customer side.

Accessories

Note		