FLT-SEC-P-T1-440/35-P - Type 1 surge protection plug

2905989

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Replacement plug free of leakage current for lightning arresters from the FLASHTRAB SEC PLUS 440 product range, for L-N and L-PE paths.

Your advantages

- Surge protection family for universal use with optimum energy coordination from the lightning current arrester to the device protection
- Easy to maintain due to consistently pluggable protection modules
- Excellent level of information provided by mechanical/visual status indicator and remote indication contact
- Optimum protective effect in the event of high-energy lightning currents, thanks to spark gap technology with low residual voltage characteristic
- Maximum performance in a minimum amount of space: compact design with high discharge capacity at high nominal voltage

Commercial data

Item number	2905989
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1172
GTIN	4055626013282
Weight per piece (including packing)	267.3 g
Weight per piece (excluding packing)	241.75 g
Customs tariff number	85363030
Country of origin	TR

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Technical data

Product properties

Product type	Replacement plug
Product family	SEC Family
IEC test classification	I / II
	T1 / T2
EN type	T1 / T2
IEC power supply system	TN
	IT
Type	Male
Number of positions	1
Surge protection fault message	optical

Insulation characteristics

Overvoltage category	III
Pollution degree	2

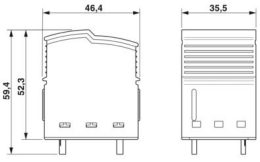
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)

Connection data

Connection method	pluggable

Dimensions

Dimensional drawing	
Width	35.5 mm
Height	46.6 mm
Depth	59.4 mm
Horizontal pitch	2 HP

Material specifications

Color	light gray (RAL 7035)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA6.6-FR 20% GF
	PBT-FR
Material group	I
Housing material	PA 6.6-FR 20 % GF

	PBT-FR

Protective circuit

Mode of protection	L-N
	L-PE
	L-PEN
	N-PE (4+0)
Direction of action	L-N / L-PEN
Nominal voltage U_N	400 V AC (TN)
	400 V AC (IT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	440 V AC
Protective conductor current I_{PE}	< 5 µA
Nominal discharge current I_n (8/20) µs	35 kA
Maximum discharge current I_{max} (8/20) µs	50 kA
Impulse discharge current (10/350) µs, charge	17.5 As
Impulse discharge current (10/350) µs, specific energy	310 kJ/Ω
Impulse discharge current (10/350) µs, peak value I_{imp}	35 kA
Follow current interrupt rating I_{fi}	50 kA
Short-circuit current rating I_{SCCR}	50 kA
Voltage protection level U_p	≤ 2.5 kV
Residual voltage U_{res}	≤ 2.5 kV (at I_n)
TOV behavior at U_T	580 V AC (5 s / withstand mode)
	800 V AC (120 min / withstand mode)
	1640 V AC (200 ms / safe failure mode)
Response time t_A	≤ 100 ns
Max. backup fuse with branch wiring	400 A (gG)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)

Approvals

UL specifications

Maximum continuous operating voltage MCOV	440 V AC
Short-circuit current rating (SCCR)	25 kA
Voltage protection rating VPR	1800 V

Nominal discharge current I_n	20 kA
Mode of protection	L-N
	L-G
Nominal voltage	400 V AC
Power distribution system	Single phase
Nominal frequency	50/60 Hz
SPD Type	1CA

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

EN 61643-11

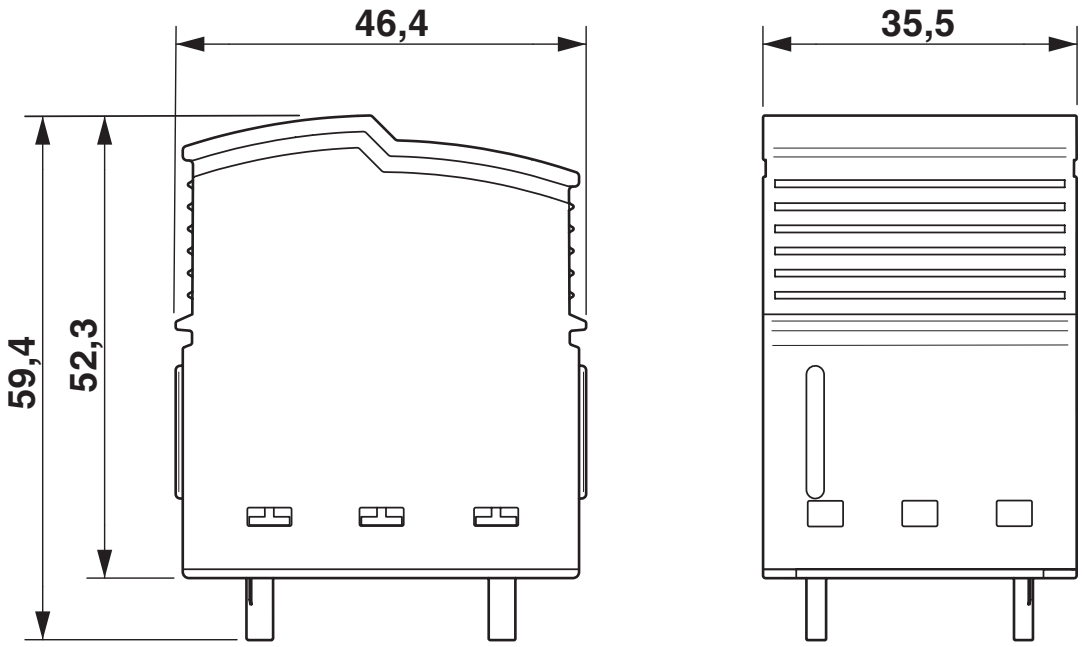
Standards/specifications	EN 61643-11
Note	2012

Mounting

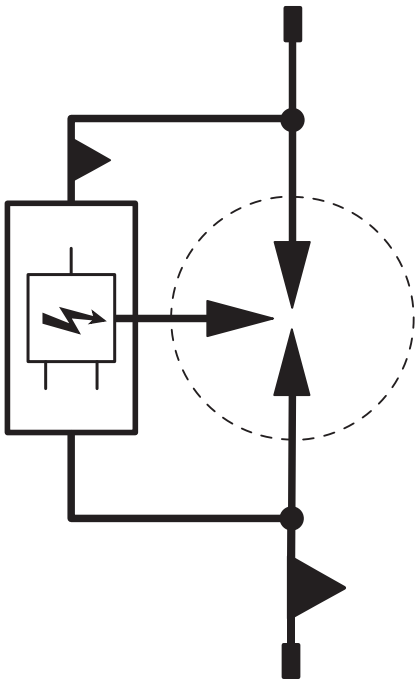
Mounting type	on base element

Drawings

Dimensional drawing



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2905989

cUL Recognized
Approval ID: FILE E 330181

UL Recognized
Approval ID: FILE E 330181

IECEE CB Scheme
Approval ID: NL-40634

CCA
Approval ID: NTR-NL 7480

KEMA-KEUR
Approval ID: 71-165054

UAE-RoHS
Approval ID: 23-10-88709

Classifications

ECLASS

ECLASS-13.0	27171292
ECLASS-15.0	27171292

ETIM

ETIM 10.0	EC002496

UNSPSC

UNSPSC 21.0	39121600

Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	N,N-dimethylacetamide(CAS: 127-19-5)
SCIP	04193ae2-42b9-458e-873a-792597e17eb6

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