

FLT 100 N/PE-1.5-ST - Type 1 surge protection plug



2800304

<https://www.phoenixcontact.com/us/products/2800304>

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Type 1/Class I/B arrester (lightning current arrester) replacement plug for N-PE path.



Commercial data

Item number	2800304
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	CL01
Product key	CL1131
GTIN	4046356535243
Weight per piece (including packing)	352.1 g
Weight per piece (excluding packing)	227.31 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Product properties

IEC test classification	I
	T1
EN type	T1
IEC power supply system	TN-S
	TT
Type	Male
Product type	Replacement plug
Number of positions	1
Surge protection fault message	none

Insulation characteristics

Overvoltage category	III
Pollution degree	2

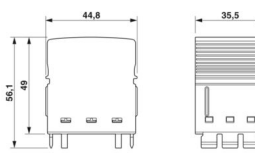
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
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Connection data

Connection method	pluggable
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Dimensions

Dimensional drawing	
Width	35.5 mm
Height	44.8 mm
Depth	56.1 mm
Horizontal pitch	2 Div.

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6/PBT
Material group	I
Housing material	PBT

Protective circuit

Mode of protection	N-PE
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Direction of action	N-PE
Nominal voltage U_N	240 V AC (TN - only N-PE)
	240 V AC (TT - only N-PE)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	260 V AC
Residual current I_{PE}	≤ 0.01 mA
Nominal discharge current I_n (8/20) μ s	100 kA
Impulse discharge current (10/350) μ s, charge	50 As
Impulse discharge current (10/350) μ s, specific energy	2500 kJ/ Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	100 kA
Follow current interrupt rating I_{fi}	100 A (260 V AC)
Voltage protection level U_p	≤ 1.5 kV
Residual voltage U_{res}	≤ 1.5 kV (at I_n)
	≤ 1 kV (at 10 kA)
	≤ 0.9 kV (at 5 kA)
	≤ 0.8 kV (at 3 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) μ s	≤ 1.5 kV
TOV behavior at U_T	1200 V AC (200 ms / withstand mode)
Response time t_A	≤ 100 ns

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)	25g (Half-sine / 11 ms / 3x \pm X, \pm Y, \pm Z)
Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN 60664-1 / IEC 60664-1 / IEC 61643-11
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	on base element
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Classifications

ECLASS

ECLASS-11.0	27130890
ECLASS-13.0	27171292

ETIM

ETIM 9.0	EC002496
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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