

1180147

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CHARX protect advanced: Replacement plug for surge protective devices from the VALVETRAB EV-T1/T2 product range for the N-PE path.

Your advantages

- · Uninterrupted continuation of the charging process with a protected power supply
- · Additional protection for the connected electric vehicle
- · High system availability, thanks to a high-performance protective circuit
- Easy insulation measurement and simple replacement during servicing with consistently pluggable protective devices
- · No mismatching of plugs, thanks to mechanical coding

Commercial data

Item number	1180147
Packing unit	10 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CL1151
GTIN	4063151215477
Weight per piece (including packing)	83.775 g
Weight per piece (excluding packing)	77.9 g
Country of origin	DE



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Technical data

Product properties

IEC test classification	1/11	
	T1 / T2	
EN type	T1 / T2	
IEC power supply system	TN-S	
	тт	
Туре	DIN rail module, two-section, divisible	
Product type	Replacement plug	
Product family	VALVETRAB MS	
Surge protection fault message	optical	
Insulation characteristics		
Overvoltage category	III	
Pollution degree	2	

Electrical properties

	50.11 (00.11.)
Nominal frequency f _N	50 Hz (60 Hz)

Connection data

Connection method	pluggable
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Dimensions

Dimensional drawing	17,5
Width	17.5 mm
Height	47.2 mm
Depth	63.9 mm
Horizontal pitch	1 Div.

Material specifications

Color	light grey (RAL 7035)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6/PBT
Material group	I
Housing material	PA 6.6
	PBT

Protective circuit



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Mode of protection	N-PE
Direction of action	N-PE
Nominal voltage U _N	240/415 V AC (TN-S)
	240/415 V AC (TT)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _C	264 V AC
Residual current I _{PE}	≤ 5 µA
Standby power consumption P _C	≤ 1.30 mVA
Nominal discharge current I _n (8/20) μs	50 kA
Maximum discharge current I _{max} (8/20) μs	50 kA
Impulse discharge current (10/350) μs, charge	25 As
Impulse discharge current (10/350) μs, specific energy	625 kJ/Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	50 kA
Follow current interrupt rating I _{fi}	100 A (264 V AC)
Voltage protection level U _p	≤ 1.7 kV
Residual voltage U _{res}	≤ 0.6 kV (at I _n)
	≤ 0.5 kV (at 10 kA)
	≤ 0.5 kV (at 5 kA)
	≤ 0.4 kV (at 3 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) µs	≤ 1.7 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)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	7.5g (10 500 Hz / 2.5 h / X, Y, Z)

Standards and regulations

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	
UNSPSC			
	UNSPSC 21.0	39121600	



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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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