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VAL-EV-T1/T2 264/12.5-P - Type 1/2 surge protection plug

1180148

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CHARX protect advanced: Replacement plug for surge protective devices from the VALVETRAB EV-T1/T2 product range for the L-N 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	1180148
Packing unit	10 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CL1151
GTIN	4063151215538
Weight per piece (including packing)	112.7 g
Weight per piece (excluding packing)	107.34 g
Customs tariff number	85363090
Country of origin	DE

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Technical data

Product properties

Product type	Replacement plug
Product family	VALVETRAB MS
IEC test classification	I / II
	T1 / T2
EN type	T1 / T2
IEC power supply system	TN-S
	TN-C
	TT
Type	DIN rail module, two-section, divisible
Surge protection fault message	optical

Insulation characteristics

Overvoltage category	III
Pollution degree	2

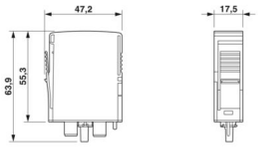
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)

Connection data

Connection method	pluggable

Dimensions

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

Material specifications

Color	light gray (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

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Protective circuit

Mode of protection	L-N
Direction of action	L-N / L-PEN
Nominal voltage U_N	240/415 V AC (TN-C, 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}	≤ 800 µA
Standby power consumption P_C	≤ 270 mVA
Nominal discharge current I_n (8/20) µs	12.5 kA
Maximum discharge current I_{max} (8/20) µs	50 kA
Impulse discharge current (10/350) µs, charge	6.25 As
Impulse discharge current (10/350) µs, specific energy	39 kJ/Ω
Impulse discharge current (10/350) µs, peak value I_{imp}	12.5 kA
Short-circuit current rating I_{SCCR}	25 kA
Voltage protection level U_p	≤ 1.2 kV
	≤ 1.6 kV (30 kA - 8/20 µs)
Residual voltage U_{res}	≤ 1.2 kV (at I_n)
	≤ 1.1 kV (at 10 kA)
	≤ 1 kV (at 5 kA)
	≤ 0.9 kV (at 3 kA)
TOV behavior at U_T	415 V AC (5 s / withstand mode)
	457 V AC (120 min / safe failure mode)
Response time t_A	≤ 25 ns
Max. backup fuse with branch wiring	160 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)	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

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Mounting type	on base element

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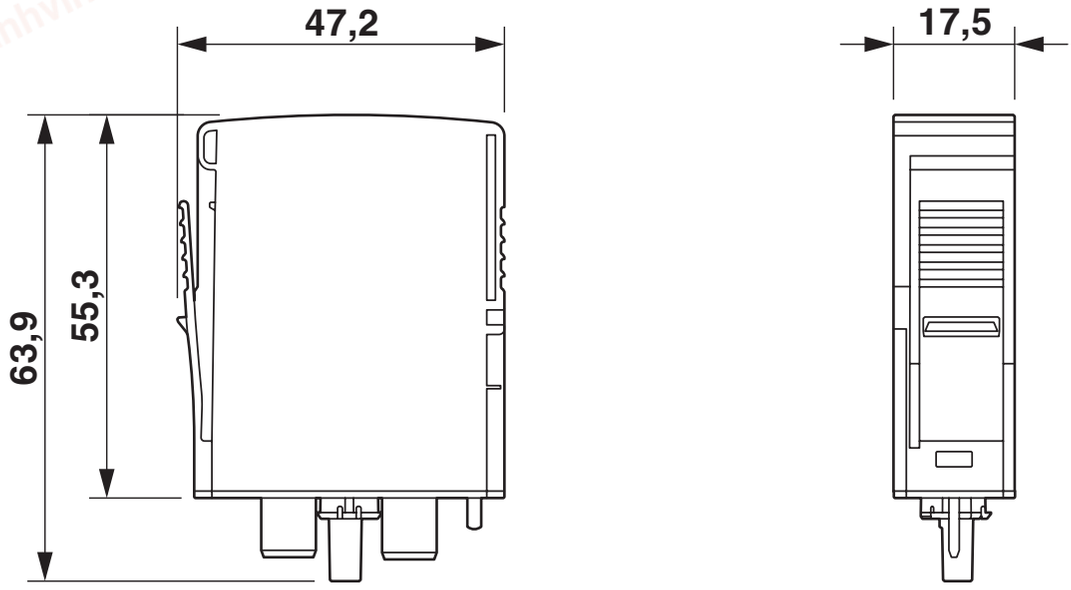
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

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KEMA-KEUR
Approval ID: 71-113415

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Classifications

ECLASS

ECLASS-13.0	27171292

ETIM

ETIM 9.0	EC002496

UNSPSC

UNSPSC 21.0	39121600

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

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

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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