

2910476

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Surge protective device combination, 3-channel, for installation on NS 35/7,5, with remote indication contact (FM) as changeover contact, voltage 400 V AC

Your advantages

- · Quality proven millions of times over in the widest range of applications
- · Rapid installation with bridges, thanks to industry-standard overall width of 1 HP
- · Easy testing and insulation measurement, thanks to pluggable protection modules
- · Suitable for use in insulation-monitored systems due to combination of varistor and gas discharge tube free of leakage current
- Can be used in applications with increased insulation strength, e.g., railway technology

Commercial data

Item number	2910476
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL1321
Catalog page	Page 64 (C-4-2019)
GTIN	4055626459172
Weight per piece (including packing)	418.3 g
Weight per piece (excluding packing)	393.5 g
Country of origin	DE



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Technical data

Screw thread

Notes

General	
Note	Burst test up to 4 kV passed according to DIN EN 61000-4-4.
	Insulates against repetitive pulses up to 1.5 kV.
	Only usable in IT Systems between L-PE, if the exposed-conductive-parts (bodies) of the equipment of the low-voltage installation is connected to the earthing arrangement of the transformer substation (interconnected earthing arrangement of the HV-transformer substation with the bodies of the LV-installation. $R_{\rm E}$ = $R_{\rm A}$ accordance to IEC 60364-4-442 / VDE 0100-442 Fig. 44D / Example a).
	At altitudes > 2000 m (amsl), a lateral distance of 2 mm must be maintained between live and grounded parts.
roduct properties	
IEC test classification	II
	T2
EN type	T2
IEC power supply system	IT
Туре	DIN rail module, two-section, divisible
Product type	Surge arrester
Product family	VALVETRAB MS
Number of positions	4
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	III
Pollution degree	2
lectrical properties	
Nominal frequency f _N	50 Hz (60 Hz)
Indicator/remote signaling	
Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	5 V AC 250 V AC (Altitude ≤ 2000 m (amsl))
	5 V AC 150 V AC (Altitude > 2000 m (amsl))
	30 V DC
Operating current	5 mA AC 750 mA AC
	1 A DC
Connection data	
Connection method	Screw connection

М5



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Tightening torque	3 Nm (1.5 mm² 16 mm²)
	4.5 Nm (25 mm² 35 mm²)
Stripping length	16 mm
Conductor cross section flexible	1.5 mm² 25 mm²
Conductor cross section rigid	1.5 mm² 35 mm²
Conductor cross section AWG	15 2
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 16 mm²

Remote fault indicator contact

Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16

Dimensions

Dimensional drawing	99,7
Width	71 mm
Height	98.7 mm
Depth	65.7 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	4 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	1
Housing material	PA 6.6
	PBT

Protective circuit

Mode of protection	L-PE
	L-L
Direction of action	3L-PEN
Nominal voltage U _N	400 V AC (IT)
Nominal frequency f _N	50 Hz (60 Hz)



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Maximum continuous voltage U _C	440 V AC
Rated load current I _L	80 A
Residual current I _{PE}	≤ 5 µA
Standby power consumption $P_{\mathbb{C}}$	≤ 600.00 mVA
Nominal discharge current I _n (8/20) μs	20 kA
Maximum discharge current I _{max} (8/20) μs	40 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U_p (L-L)	≤ 4 kV
Voltage protection level U_p (L-PE)	≤ 3.5 kV
Residual voltage U _{res} (L-L)	≤ 4 kV (at I _n)
Residual voltage U _{res} (L-PE)	≤ 2.3 kV (at I _n)
Response time t _A (L-L)	≤ 25 ns
Response time t _A (L-PE)	≤ 100 ns
Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	100 A (gG)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 5000 m (amsl)
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	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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Classifications

ECLASS

	ECLASS-11.0	27130805			
	ECLASS-13.0	27171202			
FI	ETIM				
	TIVI				
	ETIM 9.0	EC000941			
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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