

POWERSET BC-385/3+1-100/FM - Type 1+2 special combined lightning current and surge arrester



2905036

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Lightning and surge arrester combination, in accordance with Type 1+2/Class I+II, for 3-phase power supply networks, with separate N and PE (L1, L2, L3, PE, N). Consisting of 3x FLT 35 CTRL-4.0 and 3x VAL-MS 400/FM and 1x FLT 100N/PE-1.5, incl. bridges and marking.

Commercial data

Item number	2905036
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL1221
GTIN	4046356913966
Weight per piece (including packing)	1,293.3 g
Weight per piece (excluding packing)	1,112.6 g
Country of origin	IN

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Set consists of

FLT 100 N/PE CTRL-3.0 - Type 1+2 combined lightning current and surge arrester

2905834

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Lightning current arrester with encapsulated N-PE spark gap and ignition electronics, 1-channel. Voltage protection level: 3 kV. Housing width: 35 mm (2 pitches)

FLT 35 CTRL-4.0 - Type 1+2 combined lightning current and surge arrester

2801635

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Type 1/Class I/B arrester (lightning current arrester) with encapsulated arc chopping spark gap and ignition electronics, single-channel. Voltage protection level: 4 kV. Housing width: 17.5 mm (1 HP)

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VAL-MS BE/FM - Type 2 surge protection base element

2817738

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Base element for type 2 arresters of the VALVETRAB MS series of products, with remote indication contact. Design: 1-channel



VAL-MS 400 ST - Type 2 surge protection plug

2816399

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Surge protection connector type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 400 V AC



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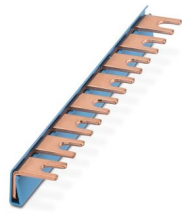
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MPB 18/1- 8 BU - Wiring bridge

2858470

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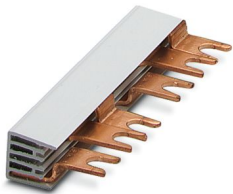


Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos., color: Blue

MPB 18/3- 6 - Wiring bridge

2809241

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Wiring bridge for modules with connecting pitch 17.5 mm, 3-phase, 6-pos.

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Technical data

Product properties

Product type	Arrester combination
IEC test classification	I + II
	T1 + T2
EN type	T1 + T2
IEC power supply system	TN
	TT
Type	DIN rail module, two-section, divisible
Number of positions	4
Surge protection fault message	Optical (Type 2 arrester), remote indication contact (Type 2 arrester)
Number of ports	One

Connection data

FLT 35 CTRL-4.0

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	14.5 mm

VAL-MS BE/FM

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm ² ... 16 mm ²)
	4.5 Nm (25 mm ² ... 35 mm ²)
Stripping length	16 mm

FLT 100 N/PE CTRL-3.0

Connection method	Screw connection
Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm
Conductor cross-section flexible	1.5 mm ² ... 25 mm ²
Conductor cross-section rigid	1.5 mm ² ... 35 mm ²
Conductor cross-section AWG	15 ... 2

Material specifications

Color	black (RAL 9005)
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Mechanical properties

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Mechanical data

Open side panel	No
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Protective circuit

Direction of action	3L-N & N-PE
Nominal voltage U_N	230/400 V AC (TN)
	230/400 V AC (TT)
Nominal discharge current I_n (8/20) μ s (L-N)	20 kA
Nominal discharge current I_n (8/20) μ s (N-PE)	100 kA
Impulse discharge current (10/350) μ s (L-N), peak current value I_{imp}	35 kA
Impulse discharge current (10/350) μ s (N-PE), peak current value I_{imp}	100 kA

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
Permissible humidity (operation)	5 % ... 95 %

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	DIN rail: 35 mm
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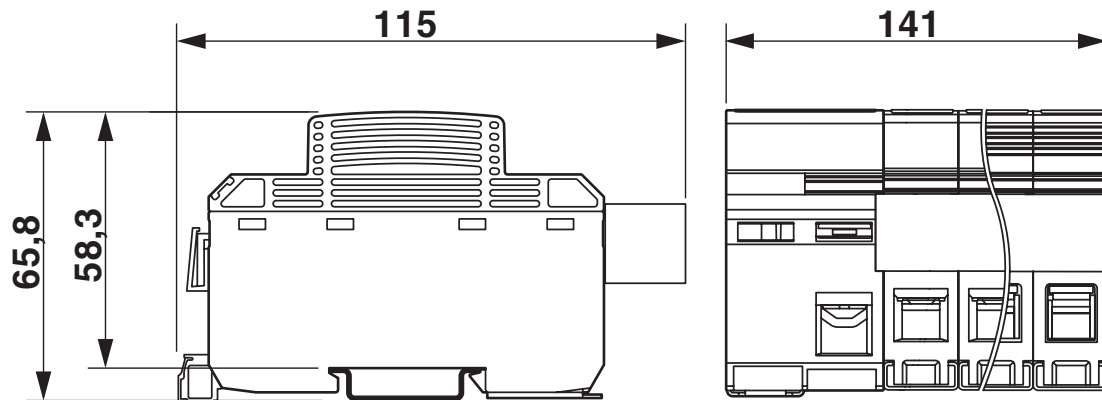


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Drawings

Dimensional drawing



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Classifications

ECLASS

ECLASS-13.0	27171204
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ETIM

ETIM 9.0	EC001457
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

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