

## Surge protection device - MT-VAR/ 2E- 24AC - 2945516

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Rail-mountable module with surge voltage medium protection, equipped with 2 varistors, individually wired, mounting on NS 35/7.5. Nominal voltage: 24 V AC, housing width: 12.5 mm



The illustration shows version MT-VAR/2E- 12 AC



### Key commercial data

Packing unit	1 PCE
GTIN	 4 017918 081829
Weight per Piece (excluding packing)	35.46 GRM
Custom tariff number	85363010
Country of origin	Germany

### Technical data

#### Dimensions

Height	77.5 mm
Width	12.4 mm
Depth	55 mm

#### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Degree of protection	IP20

#### General

Housing material	PA-F
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1

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### Technical data

#### General

Mounting type	DIN rail: 35 mm
Design	Rail-mountable module, one-piece
Number of positions	4
Direction of action	Line-Line

#### Protective circuit

IEC test classification	C1
	C3
VDE requirement class	C1
	C3
Nominal voltage $U_N$	24 V AC
Maximum continuous operating voltage $U_c$	38 V DC
	30 V AC
Maximum continuous voltage $U_C$ (wire-wire)	38 V DC
	30 V AC
Operating effective current $I_c$ at $U_c$	$\leq 400 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Core)	320 A
Total surge current (8/20) $\mu\text{s}$	640 A
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (Core-Core)	1 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu\text{s}$ (Core-Core)	22 A
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Core) static	$\leq 120 \text{ V}$
Residual voltage at $I_n$ , (conductor-conductor)	$\leq 185 \text{ V}$
Residual voltage with $I_{an}$ (10/1000) $\mu\text{s}$ (conductor-conductor)	$\leq 125 \text{ V}$
Response time $t_A$ (Core-Core)	$\leq 25 \text{ ns}$
Capacity (Core-Core)	typ. 3.5 nF
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (500 V / 250 A)
	C3 (10 A)

#### Connection data

Connection method	Screw terminal blocks
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>

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### Classifications

#### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807

#### ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

#### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

### Approvals

#### Approvals

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Approvals

GOST / GOST

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Ex Approvals

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Approvals submitted

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Approval details

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## Approvals



## Accessories

### Additional products

Shield connection - SSA 3-6 - 2839295



shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black

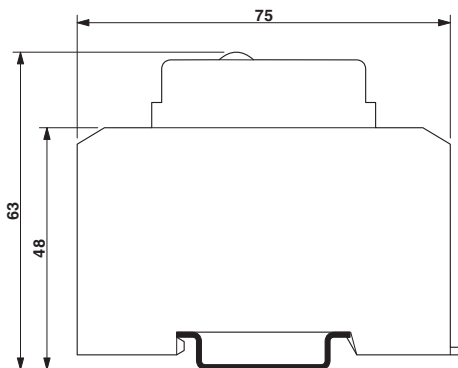
Shield connection - SSA 5-10 - 2839512



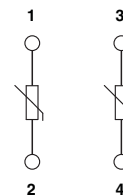
Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

## Drawings

Dimensioned drawing



Circuit diagram



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Circuit diagram

