

Surge protection device - TT-STTB-12 - 2858166

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Spring-cage terminal block with suppressor diode as fine surge protection, nominal voltage 12 V DC, for mounting on NS 35/7.5



Product Features

- Can be used in the signal circuits of electronic controllers



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	23.03 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	83.5 mm
Width	6.2 mm
Depth	47.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP20

General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	IEC 60664-1
	VDE 0110-1
Mounting type	DIN rail: 35 mm

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Technical data

General

Type	Double-level terminal block
Direction of action	Line-Line

Protective circuit

IEC test classification	C3
VDE requirement class	C3
Nominal voltage U_N	12 V DC
Maximum continuous operating voltage U_C	18 V DC
	13 V AC
Maximum continuous voltage U_C (wire-wire)	18 V DC
	13 V AC
Nominal current I_N	32 A (60°C)
Operating effective current I_C at U_C	$\leq 5 \mu A$
Nominal discharge current I_n (8/20) μs (Core-Core)	245 A
Total surge current (8/20) μs	245 A
Max. discharge current I_{max} (8/20) μs maximum (Core-Core)	245 A
Nominal pulse current I_{an} (10/1000) μs (Core-Core)	49 A
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	≤ 30 V
Output voltage limitation at 1 kV/ μs (Core-Core) static	≤ 30 V
Residual voltage at I_n , (conductor-conductor)	≤ 40 V
Residual voltage with I_{an} (10/1000) μs (conductor-conductor)	≤ 30 V
Voltage protection level U_p (Core-Core)	28 V (C3 - 25 A)
Response time t_A (Core-Core)	≤ 1 ns
Input attenuation aE, sym.	0.1 dB (≤ 200 kHz/150 Ω)
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	typ. 1.5 MHz
Capacity (Core-Core)	2.5 nF (with 1 MHz)
Surge current resistance (conductor-conductor)	C3 - 25 A

Connection data

Connection method	Spring-cage connection
Connection type IN	Spring-cage
Connection type OUT	Spring-cage
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	10

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Standards and Regulations

Standards/regulations	IEC 61643-21
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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

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GOST / GOST

Ex Approvals

Approvals submitted

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Approvals

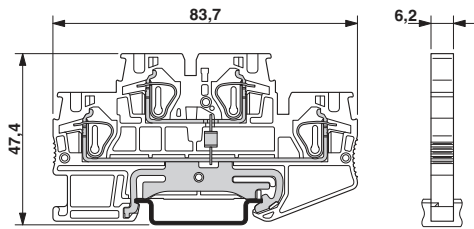
Approval details

GOST

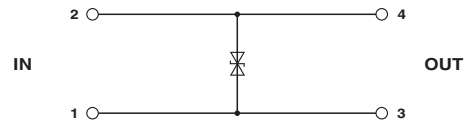
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Drawings

Dimensioned drawing



Circuit diagram



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Schematic diagram

