

## Surge protection device - TT-UKK5-M/ 24DC - 2795960

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Double-level modular terminal block with suppressor diode as surge protection between both levels, disconnect knife in the upper level, nominal voltage: 24 V DC, for mounting on NS 32 or NS 35/7.5, closed housing, terminal width: 6.2 mm, terminal height: 68 mm

### Why buy this product

- Can be used in the signal circuits of electronic controllers



### Key commercial data

Packing unit	1
Minimum order quantity	50
Catalog page	Page 111 (TT-2011)
GTIN	 4 017918 073220
Custom tariff number	85363010
Country of origin	GREECE

### Technical data

#### General

Housing material	PA
Inflammability class according to UL 94	V2
Color	black
Standards for air and creepage distances	VDE 0110-1
Total surge current (8/20) $\mu$ s	169 A
Ambient temperature (operation)	-40 °C ... 85 °C
Mounting type	DIN rail/G-profile rail
Design	Double-level terminal block with disconnect knife
Number of positions	1
Degree of protection	IP20
Direction of action	Line-Line
Width	6.2 mm
Height	68 mm
Length	80 mm

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## Technical data

### Protective circuit

IEC category	C3
VDE requirement class	C3
Nominal voltage UN	24 V DC
Maximum continuous operating voltage UC	28 V DC
Maximum continuous operating voltage UC	20 V AC
Maximum continuous voltage UC (wire-wire)	28 V DC
Maximum continuous voltage UC (wire-ground)	20 V AC
Nominal current IN	12 A (45°C)
Operating effective current IC at UC	≤ 5 μA
Nominal discharge surge current In (8/20) μs (Core-Core)	169 A
Total surge current (8/20) μs	169 A
Max. discharge surge current I <sub>max</sub> (8/20) μs maximum (Core-Core)	169 A
Nominal pulse current I <sub>an</sub> (10/1000) μs (Core-Core)	33 A
Output voltage limitation at 1 kV/μs (Core-Core) static	≤ 40 V
Residual voltage at In, (conductor-conductor)	≤ 55 V
Response time t <sub>A</sub> (Core-Core)	≤ 1 ns
Cut-off frequency f <sub>g</sub> (3 dB), sym. in 150 Ohm system	Typ. 1.2 MHz
Capacity (Core-Core)	≤ 1.6 nF
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C3 (25 A)

### Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

### Connection, protective circuit

Standards/regulations	IEC 61643-21
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## Classifications

### eClass

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801

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## Classifications

### eclass

eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807

### etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943

### unspsc

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

## Approvals

### Approvals


Approvals

CSA / GOST / GOST

Ex Approvals

Approvals submitted

### Approval details

	
mm <sup>2</sup> /AWG/kcmil	24-12
Nominal current I <sub>N</sub>	12 A
Nominal voltage U <sub>N</sub>	24 V

	
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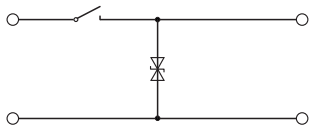
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## Drawings

### Circuit diagram



### Schematic diagram

