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Modular terminal block with two-stage surge protection for two signal wires with common reference potential, disconnect knife on both signal paths, separate ground connection, nominal voltage: 24 V DC

Why buy this product

- ✓ Versions with and without disconnect knife
- ☑ Protection of two signal wires with common reference potential
- Multi-stage modular terminal blocks with screw connection technology
- ☑ Disconnection of signal circuits by disconnect knife

















Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 182850
GTIN	4046356182850
Weight per Piece (excluding packing)	32.850 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	94.8 mm
Width	6.2 mm
Depth	69.1 mm

Ambient conditions



Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Degree of protection	IP20 (with end cover)

General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	jet black RAL 9005
Mounting type	DIN rail: 35 mm
Туре	Double-level terminal block with PE foot – separate PE connection
Number of positions	2
Direction of action	Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U _N	24 V DC
Maximum continuous voltage U _C	30 V DC
	21 V AC
Rated current	300 mA (40 °C)
Operating effective current I _C at U _C	≤ 5 µA
Residual current I _{PE}	≤ 10 μA
Nominal discharge current I _n (8/20) µs (Core-Core)	5 kA
Nominal discharge current I _n (8/20) µs (core-earth)	5 kA
Pulse discharge current I _{imp} (10/350) μs (core-ground)	500 A
Total discharge current I _{total} (8/20) μs	10 kA
Nominal pulse current lan (10/1000) µs (Core-Earth)	30 A
Output voltage limitation at 1 kV/µs (core-earth) spike	≤ 45 V
Output voltage limitation at 1 kV/µs (core-earth) static	≤ 45 V
Residual voltage at I _n (conductor-ground)	≤ 45 V
Residual voltage with lan (10/1000)µs (conductor-ground)	≤ 50 V
Voltage protection level U _p (core-ground)	≤ 55 V (C1 - 500 V / 250 A)
	≤ 85 V (C2 - 10 kV / 5 kA)
Response time tA (core-earth)	≤ 1 ns
Input attenuation aE, asym.	typ. 0.5 dB (≤ 1.5 MHz / 50 Ω)
	typ. 0.2 dB (≤ 400 kHz / 150 Ω)



Technical data

Protective circuit

Cut-off frequency fg (3 dB), asym. (PE) in 50 Ohm system	typ. 6 MHz
Cut-off frequency fg (3 dB), asym. (PE) in 150 Ohm system	typ. 2.5 MHz
Capacity (core-earth)	< 2.5 nF
Resistance in series	4.7 Ω ±20 %
Surge protection fault message	none
Max. required back-up fuse	315 mA (T)
Impulse durability (conductor-ground)	C1 - 500 V / 250 A
	C2 - 10 kV/5 kA
	D1 - 500 A

Connection data

Connection method	Screw connection
Connection method IN	Screw terminal blocks
Connection method OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.6 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section solid	0.2 mm² 4 mm²
Conductor cross section AWG	24 14

Standards and Regulations

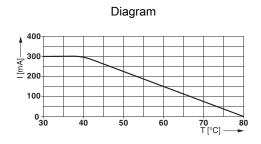
Standards/specifications	EN 61643-21 2001
	IEC 61643-21 2000

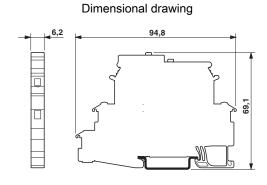
Environmental Product Compliance

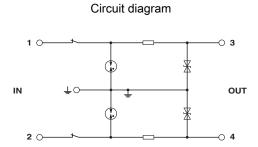
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

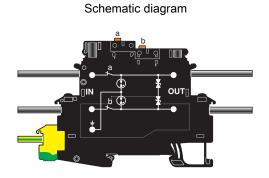
Drawings



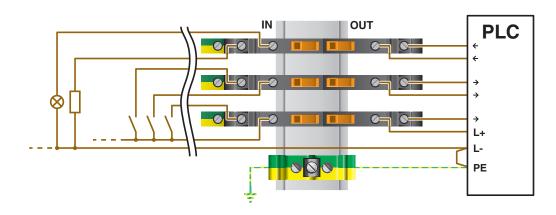






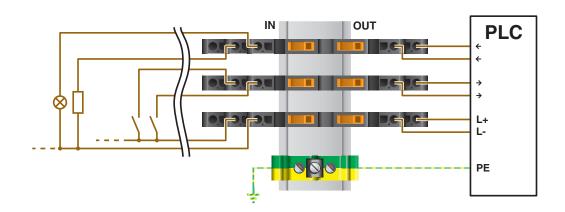


Application drawing





Application drawing



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
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943

UNSPSC

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



Approvals			
Approvals			
Approvals			
EAC / EAC / UL Listed			
Ex Approvals			
Approval details			
EAC	ERC		EAC-Zulassung
EAC	EAC		RU C- DE.A*30.B01561
UL Listed	UL LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168
Accessories			
Accessories			
End cover			
End cover - TT-D-2-PE-M-BK - 2920654			
1	End cover for TERM	ITRAB TT-2-PE-M and TT-2/2-M	

Labeled terminal marker



Accessories

Zack Marker strip, flat - ZBF 6,LGS:FORTL.ZAHLEN - 0808749



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm

Marker for terminal blocks - ZB 6,LGS:U-N - 1051430



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: U, V, W, N, GND, U, V, W, N, GND, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Terminal marking

Zack Marker strip, flat - ZBF 6:UNBEDRUCKT - 0808710



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm



Accessories

Zack Marker strip, flat - ZBF 6/WH-100:UNBEDRUCKT - 0808736



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm

Additional products

End cover - TT-D-2-PE-M-BK - 2920654



End cover for TERMITRAB TT-2-PE-M-... and TT-2/2-M-...

Shield connection - SSA 3-6 - 2839295



Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

Shield connection - SSA 5-10 - 2839512



Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black



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