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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Modular terminal block with two-stage surge protection for a floating double conductor, separate PE connection, nominal voltage: 110 V AC, for mounting on NS 35/7.5, terminal block width 6.2 mm, terminal block height: 54.6 mm

Why buy this product

- ✓ Versions with and without disconnect knife
- Protection of a floating double wire
- ☑ 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	
Minimum order quantity	1	
Catalog page	Page 106 (TT-2011)	
GTIN	4 017918 893156	
Custom tariff number	85363010	
Country of origin	GERMANY	

Technical data

General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	IEC 60664-1
Total surge current (8/20) µs	10 kA
Ambient temperature (operation)	-40 °C 85 °C
Mounting type	DIN rail: 35 mm
Design	Double-level terminal block with PE foot – separate PE connection
Number of positions	2
Degree of protection	IP20
Direction of action	Line-Line & Line-Earth Ground



Technical data

General

Width	6.2 mm
Height	79.6 mm
Depth	54.6 mm

Protective circuit

IEC category	FTOLECTIVE CITCUIT		
IEC category	IEC category	C1	
IEC category D1 Nominal voltage UN 110 V AC Maximum continuous voltage UC 120 V AC Nominal current IN 300 mA (30 °C) Operating effective current IC at UC ≤ 5 μA Operating effective current IPE ≤ 10 μA Nominal current IN 300 mA (30 °C) Operating estage current In (8/20) μs (Core-Core) 5 kA Nominal discharge surge current In (8/20) μs (Core-Earth) 5 kA Total surge current (8/20) μs (Core-Earth) 5 kA Total surge current (8/20) μs maximum (Core-Core) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Earth) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Earth) 5 kA Nominal pulse current Ian (10/1000) μs (Core-Earth) 5 kA Core 100 A Lightning test current (10/350) μs, peak value limp 500 A Output voltage limitation at 1 kV/μs (Core-Earth) 5 kO A Output voltage limitation at 1 kV/μs (Core-Earth) 5 kO A Output voltage limitation at 1 kV/μs (Core-Earth) 5 kO A Protection level UP (Core-Core) 250 V (C1 - 10 kV / 5 kA) Protection level UP (Core-Earth) 5 kO V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) 5 kO V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) 5 kO V (C3 - 10 A) Protection level UP (Core-Earth) 5 kO V (C3 - 10 A) Protection level UP (Core-Earth) 5 kO V (C3 - 10 A) Protection level UP (Core-Earth) 5 kO V (C3 - 10 A) Protection level UP (Core-Earth) 5 kO V (C3 - 10 A) Protection level UP (Core-Earth) 5 kO V (C3 - 10 A) Protection level UP (Core-Earth) 5 kO V (C3 - 10 A) Protection level UP (Core-Earth) 5 kO V (C3 - 10 A) Protection level UP (Core-Earth) 5 kO V (C3 - 10 A) Protection level UP (Core-Earth) 5 kO V (C3 - 10 A) Protection level UP (Core-Earth) 7 kO R Response time tA (Core-Core) 7 kO R Typ. 16 dB (≤ 500 kHz / 150 Ω) Typ. 16 dB	IEC category	C2	
Nominal voltage UN 110 V AC Maximum continuous operating voltage UC 120 V AC Maximum continuous voltage UC (wire-wire) 120 V AC Maximum continuous voltage UC (wire-wire) 120 V AC Mominal current IP 300 mA (30 °C) Operating effective current IPE < 10 μA	IEC category	C3	
Maximum continuous operating voltage UC 120 V AC Maximum continuous voltage UC (wire-wire) 120 V AC Nominal current IN 300 mA (30 °C) Operating effective current IC at UC ≤ 5 μA Ground conductor current IPE < 10 μA	IEC category	D1	
Maximum continuous voltage UC (wire-wire) 120 V AC Nominal current IN 300 mA (30 °C) Operating effective current IC at UC ≤ 5 μA Ground conductor current IPE ≤ 10 μA Nominal discharge surge current In (8/20) μs (Core-Core) 5 kA Nominal discharge surge current In (8/20) μs (Core-Earth) 5 kA Total surge current (8/20) μs 10 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Earth) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Earth) 5 kA Mominal pulse current (10/350) μs, peak value limp 500 A Uput voltage limitation at 1 kV/μs (Core-Earth) psike ≤ 250 V Output voltage limitation at 1 kV/μs (Core-Earth) spike < 650 V	Nominal voltage UN	110 V AC	
Nominal current IN 300 mA (30 °C) Operating effective current IC at UC ≤ 5 μA Ground conductor current IPE < 10 μA	Maximum continuous operating voltage UC	120 V AC	
Operating effective current IC at UC ≤ 5 μA Ground conductor current IPE ≤ 10 μA Nominal discharge surge current In (8/20) μs (Core-Core) 5 kA Nominal discharge surge current In (8/20) μs (Core-Earth) 5 kA Total surge current (8/20) μs 10 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Core) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Core) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Core) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Core) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Core) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Core) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Core) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Core) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Core) 5 kA Lighthing test current (10/350) μs, peak value limp 500 A Output voltage imitation at 1 kV/μs (Core-Core) spike 255 V Output voltage limitation at 1 kV/μs (Core-Core) spike 250 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) 900 V (C2	Maximum continuous voltage UC (wire-wire)	120 V AC	
Ground conductor current IPE ≤ 10 μA Nominal discharge surge current In (8/20) μs (Core-Core) 5 kA Nominal discharge surge current In (8/20) μs 10 kA Max. discharge surge current Imax (8/20) μs maximum (Corecretarth) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Corecretarth) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Corecretarth) 100 A Lightning best current (10/350) μs, peak value limp 500 A Output voltage limitation at 1 kV/μs (Core-Core) spike ≤ 250 V Output voltage limitation at 1 kV/μs (Core-Earth) spike ≤ 650 V Protection level UP (Core-Core) ≤ 300 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Care) ≤ 250 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) ≤ 650 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) ≤ 650 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) ≤ 850 V (C3 - 10 A) Protection level UP (Core-Earth) ≤ 850 V (C3 - 10 A) Protection level UP (Core-Earth) ≤ 850 V (C3 - 10 A) Protection level UP (Core-Earth) ≤ 850 V (C3 - 10 A) Protection level UP (Core-Earth) ≤ 850 V (B1 - 500 A) Response time	Nominal current IN	300 mA (30 °C)	
Nominal discharge surge current In (8/20) μs (Core-Earth) 5 kA Total surge current (8/20) μs 10 kA Max. discharge surge current Imax (8/20) μs maximum (Corecore) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Corecarth) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Corecarth) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Corecarth) 5 kA Lightning best current (10/350) μs, peak value limp 500 A Output voltage limitation at 1 kV/μs (Core-Core) spike 250 V Output voltage limitation at 1 kV/μs (Core-Core) spike 250 V Protection level UP (Core-Core) 300 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Core) 250 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) 900 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) 2650 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) 2850 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) 2850 V (C3 - 10 A) Protection level UP (Core-Earth) 2800 V (D1 - 500 A) Response time tA (Core-Core) 21 ns Response time tA (Core-Carth) 2100 ns Input attenuation aE, sym. Typ	Operating effective current IC at UC	≤ 5 µA	
Nominal discharge surge current In (8/20) μs 5 kA Total surge current (8/20) μs 10 kA Max. discharge surge current Imax (8/20) μs maximum (Corecore) 5 kA Core) 5 kA Max. discharge surge current Imax (8/20) μs maximum (CoreEarth) 5 kA Nominal pulse current (10/350) μs, peak value limp 500 A Output voltage limitation at 1 kV/μs (Core-Core) spike 250 V Output voltage limitation at 1 kV/μs (Core-Earth) spike 650 V Protection level UP (Core-Core) 300 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Core) 250 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) 900 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) 2650 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) 2650 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) 2650 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) 2650 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) 2850 V (C3 - 10 A) Protection level UP (Core-Earth) 2850 V (C1 - 1 kV/500 A) Response time tA (Core-Core) 1 ns Response time tA (Core-Core) 1 ns Response time tA (Ground conductor current IPE	≤ 10 µA	
Total surge current (8/20) μs Max. discharge surge current Imax (8/20) μs maximum (Core-Core) S kA Max. discharge surge current Imax (8/20) μs maximum (Core-Earth) Nominal pulse current Ian (10/1000) μs (Core-Earth) Lightning test current (10/350) μs, peak value limp 500 A Cutput voltage limitation at 1 kV/μs (Core-Core) spike ≤ 250 V Output voltage limitation at 1 kV/μs (Core-Earth) spike ≤ 650 V Protection level UP (Core-Core) ✓ 250 V (C1 - 10 kV / 5 kA) Protection level UP (Core-Core) ≤ 250 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) ≤ 650 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) ≤ 650 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) ≤ 650 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ≤ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ≤ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ≤ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ≤ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (Core-Earth) ⇒ 850 V (C3 - 10 kV / 5 kA) Protection level UP (C3 kV / 5 kA) Protectio	Nominal discharge surge current In (8/20) µs (Core-Core)	5 kA	
Max. discharge surge current Imax (8/20) μs maximum (Core-Core) 5 kA Max. discharge surge current Imax (8/20) μs maximum (Core-Earth) 5 kA Nominal pulse current Ian (10/1000) μs (Core-Earth) 100 A Lightning test current (10/350) μs, peak value limp 500 A Output voltage limitation at 1 kV/μs (Core-Core) spike ≤ 250 V Output voltage limitation at 1 kV/μs (Core-Earth) spike ≤ 650 V Protection level UP (Core-Core) ≤ 300 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) ≤ 250 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) ≤ 900 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) ≤ 850 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) ≤ 850 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) ≤ 850 V (C3 - 10 A) Protection level UP (Core-Earth) ≤ 850 V (C3 - 10 A) Protection level UP (Core-Earth) ≤ 800 V (D1 - 500 A) Response time tA (Core-Core) ≤ 1 ns Response time tA (Core-Earth) ≤ 100 ns Input attenuation aE, sym. Typ. 1.5 dB (≤ 2 MHz) Input attenuation aE, sym. Typ. 0.6 dB (≤ 500 kHz / 150 Ω) Cut-off frequency fg (3 dB), sym. in 50 Ohm s	Nominal discharge surge current In (8/20) µs (Core-Earth)	5 kA	
Core) S κΑ Max. discharge surge current Imax (8/20) μs maximum (Core-Earth) 5 kA Lightning test current (10/1000) μs (Core-Earth) 100 A Lightning test current (10/350) μs, peak value limp 500 A Output voltage limitation at 1 kV/μs (Core-Core) spike ≤ 250 V Output voltage limitation at 1 kV/μs (Core-Earth) spike ≤ 650 V Protection level UP (Core-Core) ≤ 300 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Core) ≤ 250 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) ≤ 900 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) ≤ 650 V (C1 - 1 kV/500 A) Protection level UP (Core-Earth) ≤ 850 V (C3 - 10 A) Protection level UP (Core-Earth) ≤ 850 V (C3 - 100 A) Protection level UP (Core-Earth) ≤ 800 V (D1 - 500 A) Response time tA (Core-Core) ≤ 1 ns Response time tA (Core-Earth) ≤ 100 ns Input attenuation aE, sym. Typ. 1.5 dB (≤ 2 MHz) Input attenuation aE, sym. Typ. 1.5 dB (≤ 2 MHz) Input differeducing fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 600 pF	Total surge current (8/20) µs	10 kA	
Earth) Nominal pulse current Ian (10/1000) μs (Core-Earth) Lightning test current (10/350) μs, peak value limp 500 A Output voltage limitation at 1 kV/μs (Core-Core) spike 250 V Output voltage limitation at 1 kV/μs (Core-Earth) spike Protection level UP (Core-Core) Protection level UP (Core-Core) Protection level UP (Core-Earth) Pro		5 kA	
Lightning test current (10/350) μ s, peak value limp 500 A Output voltage limitation at 1 kV/ μ s (Core-Core) spike 250 V Output voltage limitation at 1 kV/ μ s (Core-Earth) spike 650 V Protection level UP (Core-Core) 200 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) 200 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) 200 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) 200 V (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) 200 V (C3 - 10 kA) Protection level UP (Core-Earth) 200 V (C3 - 10 A) Protection level UP (Core-Earth) 200 V (C3 - 100 A) Protection level UP (Core-Earth) 200 V (C3 - 100 A) Protection level UP (Core-Earth) 200 V (C3 - 100 A) Response time tA (Core-Core) 200 V (C3 - 100 R) Response time tA (Core-Earth) 200 V (C3 - 100 R) Input attenuation aE, sym. Typ. 1.5 dB (200 KHz / 150 200 V) Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 1.5 dB (200 KHz / 150 200 V) Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) 200 V (per path) Resistance in series 9.4 200 V (per path)	, , , , , , ,	5 kA	
Output voltage limitation at 1 kV/µs (Core-Core) spike $\leq 250 \text{ V}$ Output voltage limitation at 1 kV/µs (Core-Earth) spike $\leq 650 \text{ V}$ Protection level UP (Core-Core) $\leq 300 \text{ V}$ (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) $\leq 900 \text{ V}$ (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) $\leq 900 \text{ V}$ (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) $\leq 650 \text{ V}$ (C1 - 1 kV/500 A) Protection level UP (Core-Earth) $\leq 850 \text{ V}$ (C3 - 10 A) Protection level UP (Core-Earth) $\leq 900 \text{ V}$ (C3 - 10 A) Protection level UP (Core-Earth) $\leq 900 \text{ V}$ (C3 - 100 A) Protection level UP (Core-Earth) $\leq 800 \text{ V}$ (D1 - 500 A) Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. Typ. 1.5 dB ($\leq 2 \text{ MHz}$) Input attenuation aE, sym. Typ. 0.6 dB ($\leq 500 \text{ kHz}$ / 150 Ω) Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) $\leq 2 \text{ pF}$ Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Nominal pulse current lan (10/1000) µs (Core-Earth)	100 A	
Output voltage limitation at 1 kV/µs (Core-Earth) spike $\leq 650 \text{ V}$ Protection level UP (Core-Core) $\leq 300 \text{ V}$ (C2 - 10 kV / 5 kA) Protection level UP (Core-Core) $\leq 250 \text{ V}$ (C1 - 1 kV/500 A) Protection level UP (Core-Earth) $\leq 900 \text{ V}$ (C2 - 10 kV / 5 kA) Protection level UP (Core-Earth) $\leq 650 \text{ V}$ (C1 - 1 kV/500 A) Protection level UP (Core-Earth) $\leq 650 \text{ V}$ (C3 - 10 A) Protection level UP (Core-Earth) $\leq 850 \text{ V}$ (C3 - 10 A) Protection level UP (Core-Earth) $\leq 900 \text{ V}$ (C3 - 100 A) Protection level UP (Core-Earth) $\leq 800 \text{ V}$ (D1 - 500 A) Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. Typ. 1.5 dB ($\leq 2 \text{ MHz}$) Input attenuation aE, sym. Typ. 0.6 dB ($\leq 500 \text{ kHz}$ / 150 Ω) Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) $\leq 2 \text{ pF}$ Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Lightning test current (10/350) µs, peak value limp	500 A	
Protection level UP (Core-Core) $\leq 300 \text{ V}$ (C2 - 10 kV / 5 kA)Protection level UP (Core-Core) $\leq 250 \text{ V}$ (C1 - 1 kV/500 A)Protection level UP (Core-Earth) $\leq 900 \text{ V}$ (C2 - 10 kV / 5 kA)Protection level UP (Core-Earth) $\leq 650 \text{ V}$ (C1 - 1 kV/500 A)Protection level UP (Core-Earth) $\leq 850 \text{ V}$ (C3 - 10 A)Protection level UP (Core-Earth) $\leq 900 \text{ V}$ (C3 - 100 A)Protection level UP (Core-Earth) $\leq 800 \text{ V}$ (D1 - 500 A)Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym.Typ. 1.5 dB ($\leq 2 \text{ MHz}$)Input attenuation aE, sym.Typ. 0.6 dB ($\leq 500 \text{ kHz}$ / 150 Ω)Cut-off frequency fg (3 dB), sym. in 50 Ohm systemTyp. 15 MHzCut-off frequency fg (3 dB), sym. in 150 Ohm systemTyp. 8 MHzCapacity (Core-Core)Typ. 600 pFCapacity (Core-Earth) $\leq 2 \text{ pF}$ Resistance in series 9.4Ω 10 % (per path)Resistance in series 9.4Ω	Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 250 V	
Protection level UP (Core-Core) $\leq 250 \text{ V } (\text{C1-1 kV}/500 \text{ A})$ Protection level UP (Core-Earth) $\leq 900 \text{ V } (\text{C2-10 kV} / 5 \text{ kA})$ Protection level UP (Core-Earth) $\leq 650 \text{ V } (\text{C1-1 kV}/500 \text{ A})$ Protection level UP (Core-Earth) $\leq 850 \text{ V } (\text{C3-10 A})$ Protection level UP (Core-Earth) $\leq 900 \text{ V } (\text{C3-100 A})$ Protection level UP (Core-Earth) $\leq 800 \text{ V } (\text{D1-500 A})$ Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. Typ. 1.5 dB ($\leq 2 \text{ MHz}$) Input attenuation aE, sym. Typ. 0.6 dB ($\leq 500 \text{ kHz} / 150 \Omega$) Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) $\leq 2 \text{ pF}$ Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 650 V	
Protection level UP (Core-Earth) $\leq 900 \text{ V } (\text{C2} - 10 \text{ kV } / 5 \text{ kA})$ Protection level UP (Core-Earth) $\leq 650 \text{ V } (\text{C1} - 1 \text{ kV} / 500 \text{ A})$ Protection level UP (Core-Earth) $\leq 850 \text{ V } (\text{C3} - 10 \text{ A})$ Protection level UP (Core-Earth) $\leq 900 \text{ V } (\text{C3} - 100 \text{ A})$ Protection level UP (Core-Earth) $\leq 800 \text{ V } (\text{D1} - 500 \text{ A})$ Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. Typ. 1.5 dB ($\leq 2 \text{ MHz}$) Input attenuation aE, sym. Typ. 0.6 dB ($\leq 500 \text{ kHz} / 150 \Omega$) Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) $\leq 2 \text{ pF}$ Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Protection level UP (Core-Core)	≤ 300 V (C2 - 10 kV / 5 kA)	
Protection level UP (Core-Earth) $\leq 650 \text{ V (C1 - 1 kV/500 A)}$ Protection level UP (Core-Earth) $\leq 850 \text{ V (C3 - 10 A)}$ Protection level UP (Core-Earth) $\leq 900 \text{ V (C3 - 100 A)}$ Protection level UP (Core-Earth) $\leq 800 \text{ V (D1 - 500 A)}$ Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. Typ. 1.5 dB ($\leq 2 \text{ MHz}$) Input attenuation aE, sym. Typ. 0.6 dB ($\leq 500 \text{ kHz / 150 }\Omega$) Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) $\leq 2 \text{ pF}$ Resistance in series 9.4 Ω 10 % (per path) Resistance in series	Protection level UP (Core-Core)	≤ 250 V (C1 - 1 kV/500 A)	
Protection level UP (Core-Earth) $\leq 850 \text{ V (C3 - 10 A)}$ Protection level UP (Core-Earth) $\leq 900 \text{ V (C3 - 100 A)}$ Protection level UP (Core-Earth) $\leq 800 \text{ V (D1 - 500 A)}$ Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. Typ. 1.5 dB ($\leq 2 \text{ MHz}$) Input attenuation aE, sym. Typ. 0.6 dB ($\leq 500 \text{ kHz / 150 }\Omega$) Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) $\leq 2 \text{ pF}$ Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Protection level UP (Core-Earth)	≤ 900 V (C2 - 10 kV / 5 kA)	
Protection level UP (Core-Earth) $\leq 900 \text{ V } (\text{C3 - }100 \text{ A})$ Protection level UP (Core-Earth) $\leq 800 \text{ V } (\text{D1 - }500 \text{ A})$ Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. Typ. 1.5 dB ($\leq 2 \text{ MHz}$) Input attenuation aE, sym. Typ. 0.6 dB ($\leq 500 \text{ kHz} / 150 \Omega$) Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) $\leq 2 \text{ pF}$ Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Protection level UP (Core-Earth)	≤ 650 V (C1 - 1 kV/500 A)	
Protection level UP (Core-Earth) $\leq 800 \text{ V (D1 - }500 \text{ A})$ Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. Typ. 1.5 dB ($\leq 2 \text{ MHz}$) Input attenuation aE, sym. Typ. 0.6 dB ($\leq 500 \text{ kHz} / 150 \Omega$) Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) $\leq 2 \text{ pF}$ Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Protection level UP (Core-Earth)	≤ 850 V (C3 - 10 A)	
Response time tA (Core-Core) \leq 1 ns Response time tA (Core-Earth) \leq 100 ns Input attenuation aE, sym. Typ. 1.5 dB (\leq 2 MHz) Input attenuation aE, sym. Typ. 0.6 dB (\leq 500 kHz / 150 Ω) Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) \leq 2 pF Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Protection level UP (Core-Earth)	≤ 900 V (C3 - 100 A)	
Response time tA (Core-Earth) \leq 100 ns Input attenuation aE, sym. Typ. 1.5 dB (\leq 2 MHz) Input attenuation aE, sym. Typ. 0.6 dB (\leq 500 kHz / 150 Ω) Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) \leq 2 pF Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Protection level UP (Core-Earth)	≤ 800 V (D1 - 500 A)	
Input attenuation aE, sym.Typ. 1.5 dB ($\leq 2 \text{ MHz}$)Input attenuation aE, sym.Typ. 0.6 dB ($\leq 500 \text{ kHz}$ / 150Ω)Cut-off frequency fg (3 dB), sym. in 50 Ohm systemTyp. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm systemTyp. 8 MHz Capacity (Core-Core)Typ. 600 pF Capacity (Core-Earth) $\leq 2 \text{ pF}$ Resistance in series 9.4Ω 10 % (per path)Resistance in series 9.4Ω	Response time tA (Core-Core)	≤ 1 ns	
Input attenuation aE, sym. Typ. $0.6 \text{ dB} \ (\le 500 \text{ kHz} \ / \ 150 \ \Omega)$ Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) $\le 2 \text{ pF}$ Resistance in series $9.4 \ \Omega \ 10 \ \%$ (per path) Resistance in series $9.4 \ \Omega$	Response time tA (Core-Earth)	≤ 100 ns	
Cut-off frequency fg (3 dB), sym. in 50 Ohm system Typ. 15 MHz Cut-off frequency fg (3 dB), sym. in 150 Ohm system Typ. 8 MHz Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) ≤ 2 pF Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Input attenuation aE, sym.	Typ. 1.5 dB (≤ 2 MHz)	
	Input attenuation aE, sym.	Typ. 0.6 dB (≤ 500 kHz / 150 Ω)	
Capacity (Core-Core) Typ. 600 pF Capacity (Core-Earth) ≤ 2 pF Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Cut-off frequency fg (3 dB), sym. in 50 Ohm system	Typ. 15 MHz	
Capacity (Core-Earth) $\leq 2 \text{ pF}$ Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Cut-off frequency fg (3 dB), sym. in 150 Ohm system	Typ. 8 MHz	
Resistance in series 9.4 Ω 10 % (per path) Resistance in series 9.4 Ω	Capacity (Core-Core)	Typ. 600 pF	
Resistance in series 9.4 Ω	Capacity (Core-Earth)	≤ 2 pF	
	Resistance in series	9.4 Ω 10 % (per path)	
Message: Surge protection fault None	Resistance in series	9.4 Ω	
	Message: Surge protection fault	None	



Technical data

Protective circuit

Max. required back-up fuse	315 mA (T/IEC 60127-2/3)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (1 kV / 500 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (1 kV / 500 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C3 (100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	D1 (500 A)
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Core)	0.1 A/1 s
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Earth)	1 A/1s

Connection data

Connection method	Screw connection	
Connection type IN	Screw terminal blocks	
Connection type OUT	Screw terminal blocks	
Screw thread	M3	
Tightening torque	0.8 Nm	
Stripping length	8 mm	
Conductor cross section stranded min.	0.2 mm²	
Conductor cross section stranded max.	2.5 mm²	
Conductor cross section solid min.	0.2 mm ²	
Conductor cross section solid max.	4 mm²	
Conductor cross section AWG/kcmil min.	24	
Conductor cross section AWG/kcmil max	14	

Connection, protective circuit

Standards/regulations	IEC 61643-21
Standards/regulations	EN 61643-21

Classifications

eclass

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

etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943



Classifications

unspsc

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

Approvals		
Approvals		
Approvals		
GOST		
Ex Approvals		
Approvals submitted		
Approval details		
GOST CO		

Accessories

Accessories

Assembly

End cover - D-DEK 1,5 BK - 2838995



Cover for setting the end of a TERMITRAB TT-2-PE... and TT-2/2 row of terminal blocks, color: black

Marking



Accessories

Marker pen - B-STIFT - 1051993



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

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



Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

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



Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

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: 5.15 x 6.15 mm

Additional products

End cover - D-DEK 1,5 BK - 2838995



Cover for setting the end of a TERMITRAB TT-2-PE... and TT-2/2 row of terminal blocks, color: black



Accessories

Shield connection - SSA 3-6 - 2839295



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

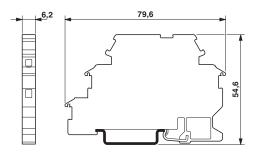
Shield connection - SSA 5-10 - 2839512



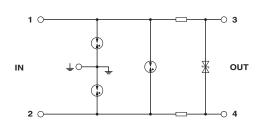
Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

Drawings

Dimensioned drawing



Circuit diagram



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