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Intrinsically safe basic terminal block with isolating connector, test connections and surge protection, with additional temperature measurement of the input terminal block for cold junction compensation, for mounting on NS 35/7.5





#### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	105.72 GRM
Custom tariff number	85363010
Country of origin	Germany

#### Technical data

#### **Dimensions**

Height	144.7 mm
Width	12.35 mm
Depth	84.5 mm

#### Ambient conditions

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

#### General

Housing material	PBT
Inflammability class according to UL 94	V2
Color	black
Standards for air and creepage distances	VDE 0110-1
	IEC 60664-1
Mounting type	DIN rail: 35 mm



## Technical data

#### General

Туре	PI basic terminal block
Number of positions	2
Direction of action	Line-Line & Line-Earth Ground

#### Protective circuit

C2   C3   C3   C3   C3   C3   C3   C3	IEC test elegation	C1
D1	IEC test classification	
D1		
Nominal voltage U <sub>N</sub>   24 V DC		
Maximum continuous operating voltage Uc         30 V DC           21 V AC           Maximum continuous voltage UC (wire-wire)         30 V DC           21 V AC           Nominal current I <sub>N</sub> 250 mA (40°C)           Operating effective current I <sub>C</sub> at U <sub>C</sub> ≤ 5 μA           Residual current I <sub>PE</sub> ≤ 4 μA           Nominal discharge current I <sub>N</sub> (8/20) μs (Core-Core)         5 kA           Nominal discharge current I <sub>N</sub> (8/20) μs (Core-Earth)         5 kA           Total surge current (8/20) μs         10 kA           Max. discharge current I <sub>max</sub> (8/20) μs maximum (Core-Core)         5 kA           Max. discharge current Ian (10/1000) μs (Core-Core)         5 kA           Nominal pulse current Ian (10/1000) μs (Core-Core)         100 A           Nominal pulse current Ian (10/1000) μs (Core-Earth)         100 A           Nominal pulse current (10/350)#μs, peak value I <sub>mp</sub> 1 kA           Output voltage limitation at 1 kV/μs (Core-Earth) spike         1.85 kV           Output voltage limitation at 1 kV/μs (Core-Core) static         ≤ 45 V           Residual voltage with Ian (10/1000)μs (conductor-conductor)         ≤ 45 V           Residual voltage with Ian (10/1000)μs (conductor-conductor)         ≤ 45 V           Voltage protection level U <sub>r</sub> (Core-Core)         ≤ 90 V (C2 (10 kV/5 kA))		
21 V AC		24 V DC
Maximum continuous voltage UC (wire-wire)         30 V DC           21 V AC           Nominal current I <sub>N</sub> 250 mA (40°C)           Operating effective current I <sub>C</sub> at U <sub>C</sub> ≤ 5 μA           Residual current I <sub>PE</sub> ≤ 4 μA           Nominal discharge current I <sub>N</sub> (8/20) μs (Core-Core)         5 kA           Nominal discharge current (8/20) μs (Core-Earth)         5 kA           Total surge current (8/20) μs maximum (Core-Core)         5 kA           Max. discharge current I <sub>max</sub> (8/20) μs maximum (Core-Core)         5 kA           Max. discharge current I <sub>max</sub> (8/20) μs maximum (Core-Earth)         5 kA           Nominal pulse current Ian (10/1000) μs (Core-Core)         100 A           Nominal pulse current Ian (10/1000) μs (Core-Core)         100 A           Impulse discharge current (10/350)#μs, peak value I <sub>mp</sub> 1 kA           Output voltage limitation at 1 kV/μs (Core-Earth) spike         1.85 kV           Output voltage at I <sub>m</sub> , (conductor-conductor)         45 V           Residual voltage at I <sub>m</sub> , (conductor-conductor)         45 V           Residual voltage with Ian (10/1000)μs (conductor-conductor)         45 V           Voltage protection level U <sub>p</sub> (Core-Core)         90 V (C2 (10 kV/5 kA))           Voltage protection level U <sub>p</sub> (Core-Earth)         5 lns kV (C2 (10 kV/5 kA))           Voltage protection	Maximum continuous operating voltage U <sub>C</sub>	30 V DC
Nominal current $I_N$ 250 mA (40°C)  Operating effective current $I_C$ at $U_C$ $\leq 5  \mu A$ Residual current $I_{PE}$ $\leq 4  \mu A$ Nominal discharge current $I_N$ (8/20) $\mu$ (Core-Core) $\leq 5  kA$ Nominal discharge current $I_N$ (8/20) $\mu$ (Core-Earth) $\leq 5  kA$ Nominal discharge current $I_N$ (8/20) $\mu$ (Core-Earth) $\leq 5  kA$ Max. discharge current $I_N$ (8/20) $\mu$ maximum (Core-Core) $\leq 5  kA$ Max. discharge current $I_N$ (8/20) $\mu$ maximum (Core-Core) $\leq 5  kA$ Nominal pulse current $I_N$ (8/20) $\mu$ maximum (Core-Earth) $\leq 5  kA$ Nominal pulse current $I_N$ (8/20) $\mu$ maximum (Core-Earth) $\leq 5  kA$ Nominal pulse current $I_N$ (10/1000) $\mu$ (Core-Earth) $\leq 100  A$ Impulse discharge current (10/350) $\mu$ ps, peak value $I_{Imp}$ $\leq 1  kA$ Output voltage limitation at $1  kV/\mu$ (Core-Earth) spike $\leq 1.85  kV$ Output voltage limitation at $1  kV/\mu$ (Core-Core) static $\leq 45  V$ Residual voltage at $I_N$ (conductor-conductor) $\leq 45  V$ Voltage protection level $U_P$ (Core-Core) $\leq 90  V$ (C2 (10 $kV/5  kA$ ))  Voltage protection level $U_P$ (Core-Earth) $\leq 1.85  kV$ (C2 (10 $kV/5  kA$ ))  Response time tA (Core-Earth) $\leq 1.00  ns$ Input attenuation aE, sym. $\leq 1.00  ns$ Out off frequency fg (3 dB), sym. in 50 Ohm system $\leq 1.00  ns$		21 V AC
Nominal current $I_{lq}$ 250 mA (40°C)  Operating effective current $I_{c}$ at $U_{c}$ $<$ 5 $\mu$ A  Residual current $I_{pg}$ $<$ 4 $\mu$ A  Nominal discharge current $I_{ln}$ (8/20) $\mu$ S (Core-Core) 5 $\mu$ A  Nominal discharge current $I_{ln}$ (8/20) $\mu$ S (Core-Earth) 5 $\mu$ A  Total surge current $I_{ln}$ (8/20) $\mu$ S (Core-Earth) 5 $\mu$ A  Max. discharge current $I_{ln}$ (8/20) $\mu$ S maximum (Core-Core) 5 $\mu$ A  Max. discharge current $I_{ln}$ (8/20) $\mu$ S maximum (Core-Earth) 5 $\mu$ A  Nominal pulse current $I_{ln}$ (8/20) $\mu$ S maximum (Core-Earth) 700 $\mu$ A  Nominal pulse current $I_{ln}$ (8/20) $\mu$ S maximum (Core-Earth) 100 $\mu$ A  Nominal pulse current $I_{ln}$ (8/20) $\mu$ S maximum (Core-Earth) 100 $\mu$ A  Nominal pulse current $I_{ln}$ (10/1000) $\mu$ S (Core-Earth) 100 $\mu$ S (Core-Core) 100 $\mu$ S (Core-Earth) 100 $\mu$ S (Core-Earth) 100 $\mu$ S (Core-Core) 100 $\mu$ S (Core-Earth) 100 $\mu$ S (C	Maximum continuous voltage UC (wire-wire)	30 V DC
Operating effective current $I_{c}$ at $U_{c}$ $\leq$ 5 μA         Residual current $I_{FE}$ $\leq$ 4 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         Total surge current (8/20) μs       10 kA         Max. discharge current $I_{max}$ (8/20) μs maximum (Core-Core)       5 kA         Max. discharge current $I_{max}$ (8/20) μs maximum (Core-Earth)       5 kA         Nominal pulse current lan (10/1000) μs (Core-Core)       100 A         Nominal pulse current 1an (10/1000) μs (Core-Earth)       100 A         Impulse discharge current (10/350)#μs, peak value $I_{mip}$ 1 kA         Output voltage limitation at 1 kV/μs (Core-Earth) spike       1.85 kV         Output voltage limitation at 1 kV/μs (Core-Earth) $\leq$ 45 V         Residual voltage with lan (10/1000)μs (conductor-conductor) $\leq$ 45 V         Voltage protection level $U_{P}$ (Core-Core) $\leq$ 90 V (C2 (10 kV/5 kA))         Voltage protection level $U_{P}$ (Core-Earth) $\leq$ 1.85 kV (C2 (10 kV/5 kA))         Response time tA (Core-Earth) $\leq$ 1.00 ns         Input attenuation aE, sym.       0.8 dB ( $\leq$ 1 MHz / 50 $\Omega$ )         Cut-off frequency fg (3 dB), sym. in 50 Ohm system       typ. 7 MHz		21 V AC
Residual current $I_{PE}$ $\leq 4  \mu A$ Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Core) $5  kA$ Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Earth) $5  kA$ Total surge current (8/20) $\mu$ s $10  kA$ Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Core) $5  kA$ Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth) $5  kA$ Nominal pulse current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth) $5  kA$ Nominal pulse current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth) $100  A$ Impulse discharge current $I_{max}$ (8/20) $\mu$ s, peak value $I_{mip}$ $1  kA$ Output voltage limitation at $1  kV/\mu$ s (Core-Earth) spike $1.85  kV$ Output voltage limitation at $1  kV/\mu$ s (Core-Core) static $1.85  kV$ Residual voltage with $I_{max}$ (10/1000) $I_{max}$ (conductor-conductor) $1.85  kV$ Voltage protection level $I_{max}$ (20re-Core) $1.85  kV$ Voltage protection level $I_{max}$ (20re-Core) $1.85  kV$ (20 (10 $I_{max}$ ) $1.85  kV$ (20 (10 $I_$	Nominal current I <sub>N</sub>	250 mA (40°C)
Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Core) 5 kA  Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Earth) 5 kA  Total surge current (8/20) $\mu$ s 10 kA  Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Core) 5 kA  Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth) 5 kA  Nominal pulse current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth) 100 A  Nominal pulse current $I_m$ (10/1000) $\mu$ s (Core-Core) 100 A  Nominal pulse current $I_m$ (10/1000) $\mu$ s (Core-Earth) 100 A  Impulse discharge current (10/350) $\mu$ s, peak value $I_{mp}$ 1 kA  Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) spike 1.85 kV  Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) static $\mu$ 45 V  Residual voltage with $\mu$ (10/1000) $\mu$ s (conductor-conductor) $\mu$ 45 V  Voltage protection level $\mu$ (Core-Core) $\mu$ 50 V (C2 (10 kV/5 kA))  Voltage protection level $\mu$ (Core-Earth) $\mu$ 1.85 kV (C2 (10 kV/5 kA))  Response time th (Core-Core) $\mu$ 100 ns  Input attenuation aE, sym. 0.8 dB ( $\mu$ 1 MHz / 50 $\mu$ )  Out off frequency fg (3 dB), sym. in 50 Ohm system typ. 7 MHz	Operating effective current $I_C$ at $U_C$	≤ 5 µA
Nominal discharge current I <sub>n</sub> (8/20) μs (Core-Earth)	Residual current I <sub>PE</sub>	≤ 4 μA
Total surge current (8/20) $\mu$ s  Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Core)  5 kA  Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth)  5 kA  Nominal pulse current Ian (10/1000) $\mu$ s (Core-Core)  100 A  Nominal pulse current Ian (10/1000) $\mu$ s (Core-Earth)  100 A  Impulse discharge current (10/350)# $\mu$ s, peak value $I_{mp}$ 1 kA  Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) spike  1.85 kV  Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) static  4 45 V  Residual voltage at $I_{m}$ (conductor-conductor)  4 45 V  Voltage protection level $U_P$ (Core-Core)  5 1 ns  Response time tA (Core-Core)  100 A  100 A  1 kA  100 A	Nominal discharge current I <sub>n</sub> (8/20) µs (Core-Core)	5 kA
Max. discharge current I <sub>max</sub> (8/20) μs maximum (Core-Core)  Max. discharge current I <sub>max</sub> (8/20) μs maximum (Core-Earth)  S kA  Nominal pulse current lan (10/1000) μs (Core-Core)  100 A  Nominal pulse current lan (10/1000) μs (Core-Earth)  Impulse discharge current (10/350)#μs, peak value I <sub>imp</sub> 1 kA  Output voltage limitation at 1 kV/μs (Core-Earth) spike  1.85 kV  Output voltage limitation at 1 kV/μs (Core-Core) static  445 V  Residual voltage at I <sub>m</sub> (conductor-conductor)  445 V  Voltage protection level U <sub>P</sub> (Core-Core)  Voltage protection level U <sub>P</sub> (Core-Core)  490 V (C2 (10 kV/5 kA))  Voltage protection level U <sub>P</sub> (Core-Earth)  845 kV (C2 (10 kV/5 kA))  41.85 kV (C2 (10 kV/5 kA))  845 kV (C2 (10 kV/5 kA))  Cut-off frequency fg (3 dB), sym. in 50 Ohm system  Vp. 7 MHz	Nominal discharge current I <sub>n</sub> (8/20) µs (Core-Earth)	5 kA
Max. discharge current $I_{max}$ (8/20) µs maximum (Core-Earth) 5 kA  Nominal pulse current lan (10/1000) µs (Core-Core) 100 A  Nominal pulse current lan (10/1000) µs (Core-Earth) 100 A  Impulse discharge current (10/350)#µs, peak value $I_{imp}$ 1 kA  Output voltage limitation at 1 kV/µs (Core-Earth) spike 1.85 kV  Output voltage limitation at 1 kV/µs (Core-Core) static $\leq 45 \text{ V}$ Residual voltage at $I_{n}$ , (conductor-conductor) $\leq 45 \text{ V}$ Residual voltage with lan (10/1000)µs (conductor-conductor) $\leq 45 \text{ V}$ Voltage protection level $U_P$ (Core-Core) $\leq 90 \text{ V}$ (C2 (10 kV/5 kA))  Voltage protection level $U_P$ (Core-Earth) $\leq 1.85 \text{ kV}$ (C2 (10 kV/5 kA))  Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. 0.8 dB ( $\leq 1 \text{ MHz} / 50 \Omega$ )  Cut-off frequency fg (3 dB), sym. in 50 Ohm system typ. 7 MHz	Total surge current (8/20) µs	10 kA
Nominal pulse current Ian (10/1000) $\mu$ s (Core-Core) 100 A  Nominal pulse current Ian (10/1000) $\mu$ s (Core-Earth) 100 A  Impulse discharge current (10/350)# $\mu$ s, peak value $l_{imp}$ 1 kA  Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) spike 1.85 kV  Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) static $\mu$ s 45 V  Residual voltage at $\mu$ s, (conductor-conductor) $\mu$ s 45 V  Voltage protection level $\mu$ s (Core-Core) $\mu$ s 90 V (C2 (10 kV/5 kA))  Voltage protection level $\mu$ s (Core-Earth) $\mu$ s (Core-Earth) $\mu$ s 1 ns  Response time tA (Core-Core) $\mu$ s 1 ns  Response time tA (Core-Earth) $\mu$ s 2 100 ns  Input attenuation aE, sym. 0.8 dB ( $\mu$ s 1 MHz / 50 $\mu$ s)  Cut-off frequency fg (3 dB), sym. in 50 Ohm system typ. 7 MHz	Max. discharge current I <sub>max</sub> (8/20) μs maximum (Core-Core)	5 kA
Nominal pulse current Ian (10/1000) $\mu$ s (Core-Earth) 100 A 1 mpulse discharge current (10/350)# $\mu$ s, peak value $l_{imp}$ 1 kA 2 Cutput voltage limitation at 1 kV/ $\mu$ s (Core-Earth) spike 1.85 kV 4 Cutput voltage limitation at 1 kV/ $\mu$ s (Core-Core) static $\mu$ s 45 V 4 Residual voltage at $l_{in}$ (conductor-conductor) $\mu$ s 45 V 4 Core-Earth Ian (10/1000) $\mu$ s (conductor-conductor) $\mu$ s 45 V 4 Voltage protection level $\mu$ s (Core-Core) $\mu$ s 90 V (C2 (10 kV/5 kA)) 4 Voltage protection level $\mu$ s (Core-Earth) $\mu$ s 1.85 kV (C2 (10 kV/5 kA)) 4 Response time tA (Core-Earth) $\mu$ s 1.85 kV (C2 (10 kV/5 kA)) 4 Ins 1 ns	Max. discharge current I <sub>max</sub> (8/20) µs maximum (Core-Earth)	5 kA
Impulse discharge current (10/350)#µs, peak value $I_{imp}$ 1 kA  Output voltage limitation at 1 kV/µs (Core-Earth) spike 1.85 kV  Output voltage limitation at 1 kV/µs (Core-Core) static $\leq 45$ V  Residual voltage at $I_{in}$ (conductor-conductor) $\leq 45$ V  Output voltage with lan (10/1000)µs (conductor-conductor) $\leq 45$ V  Voltage protection level $U_P$ (Core-Core) $\leq 90$ V (C2 (10 kV/5 kA))  Voltage protection level $U_P$ (Core-Earth) $\leq 1.85$ kV (C2 (10 kV/5 kA))  Response time tA (Core-Core) $\leq 1$ ns  Response time tA (Core-Earth) $\leq 100$ ns  Input attenuation aE, sym. $0.8$ dB ( $\leq 1$ MHz / $50$ $\Omega$ )  Cut-off frequency fg (3 dB), sym. in 50 Ohm system typ. 7 MHz	Nominal pulse current lan (10/1000) µs (Core-Core)	100 A
Output voltage limitation at 1 kV/µs (Core-Earth) spike 1.85 kV  Output voltage limitation at 1 kV/µs (Core-Core) static $\leq 45 \text{ V}$ Residual voltage at I <sub>n</sub> , (conductor-conductor) $\leq 45 \text{ V}$ Residual voltage with lan (10/1000)µs (conductor-conductor) $\leq 45 \text{ V}$ Voltage protection level U <sub>P</sub> (Core-Core) $\leq 90 \text{ V}$ (C2 (10 kV/5 kA))  Voltage protection level U <sub>P</sub> (Core-Earth) $\leq 1.85 \text{ kV}$ (C2 (10 kV/5 kA))  Response time tA (Core-Core) $\leq 1.85 \text{ kV}$ (C2 (10 kV/5 kA))  Response time tA (Core-Earth) $\leq 1.00 \text{ ns}$ Input attenuation aE, sym. $\leq 1.00 \text{ ns}$ O.8 dB ( $\leq 1 \text{ MHz} / 50 \Omega$ )  Cut-off frequency fg (3 dB), sym. in 50 Ohm system typ. 7 MHz	Nominal pulse current lan (10/1000) µs (Core-Earth)	100 A
Output voltage limitation at 1 kV/µs (Core-Core) static $\leq 45 \text{ V}$ Residual voltage at I <sub>n</sub> , (conductor-conductor) $\leq 45 \text{ V}$ Residual voltage with Ian (10/1000)µs (conductor-conductor) $\leq 45 \text{ V}$ Voltage protection level U <sub>P</sub> (Core-Core) $\leq 90 \text{ V}$ (C2 (10 kV/5 kA))  Voltage protection level U <sub>P</sub> (Core-Earth) $\leq 1.85 \text{ kV}$ (C2 (10 kV/5 kA))  Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. $\leq 100 \text{ ms}$ Cut-off frequency fg (3 dB), sym. in 50 Ohm system $\leq 100 \text{ ms}$	Impulse discharge current (10/350)#μs, peak value I <sub>imp</sub>	1 kA
Residual voltage at $I_n$ , (conductor-conductor) $\leq 45 \text{ V}$ Residual voltage with Ian (10/1000)µs (conductor-conductor) $\leq 45 \text{ V}$ Voltage protection level $U_P$ (Core-Core) $\leq 90 \text{ V}$ (C2 (10 kV/5 kA))Voltage protection level $U_P$ (Core-Earth) $\leq 1.85 \text{ kV}$ (C2 (10 kV/5 kA))Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. $0.8 \text{ dB}$ ( $\leq 1 \text{ MHz} / 50 \Omega$ )Cut-off frequency fg (3 dB), sym. in 50 Ohm systemtyp. 7 MHz	Output voltage limitation at 1 kV/µs (Core-Earth) spike	1.85 kV
Residual voltage with Ian (10/1000)µs (conductor-conductor) $\leq 45 \text{ V}$ Voltage protection level U <sub>P</sub> (Core-Core) $\leq 90 \text{ V}$ (C2 (10 kV/5 kA))  Voltage protection level U <sub>P</sub> (Core-Earth) $\leq 1.85 \text{ kV}$ (C2 (10 kV/5 kA))  Response time tA (Core-Core) $\leq 1 \text{ ns}$ Response time tA (Core-Earth) $\leq 100 \text{ ns}$ Input attenuation aE, sym. $0.8 \text{ dB}$ ( $\leq 1 \text{ MHz}$ / $\leq 50 \text{ Q}$ )  Cut-off frequency fg (3 dB), sym. in 50 Ohm system typ. 7 MHz	Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 45 V
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Residual voltage at I <sub>n</sub> , (conductor-conductor)	≤ 45 V
Voltage protection level U <sub>P</sub> (Core-Earth) $\leq$ 1.85 kV (C2 (10 kV/5 kA))  Response time tA (Core-Core) $\leq$ 1 ns  Response time tA (Core-Earth) $\leq$ 100 ns  Input attenuation aE, sym. $0.8 \text{ dB} (\leq 1 \text{ MHz} / 50 \Omega)$ Cut-off frequency fg (3 dB), sym. in 50 Ohm system typ. 7 MHz	Residual voltage with Ian (10/1000)µs (conductor-conductor)	≤ 45 V
Response time tA (Core-Core) $\leq$ 1 ns  Response time tA (Core-Earth) $\leq$ 100 ns  Input attenuation aE, sym. $0.8 \text{ dB} (\leq 1 \text{ MHz} / 50 \Omega)$ Out-off frequency fg (3 dB), sym. in 50 Ohm system typ. 7 MHz	Voltage protection level U <sub>P</sub> (Core-Core)	≤ 90 V (C2 (10 kV/5 kA))
Response time tA (Core-Earth) $\leq$ 100 ns Input attenuation aE, sym. $0.8 \text{ dB} (\leq 1 \text{ MHz} / 50 \Omega)$ $0.3 \text{ dB} (\leq 250 \text{ kHz} / 150 \Omega)$ Cut-off frequency fg (3 dB), sym. in 50 Ohm system typ. 7 MHz	Voltage protection level U <sub>P</sub> (Core-Earth)	≤ 1.85 kV (C2 (10 kV/5 kA))
Input attenuation aE, sym. $0.8 \text{ dB} \ (\le 1 \text{ MHz} / 50 \ \Omega)$ 0.3 dB ( $\le 250 \text{ kHz} / 150 \ \Omega)$ Cut-off frequency fg (3 dB), sym. in 50 Ohm systemtyp. 7 MHz	Response time tA (Core-Core)	≤ 1 ns
$0.3~dB~(\le 250~kHz~/~150~\Omega)$ Cut-off frequency fg (3 dB), sym. in 50 Ohm system $typ.~7~MHz$	Response time tA (Core-Earth)	≤ 100 ns
Cut-off frequency fg (3 dB), sym. in 50 Ohm system typ. 7 MHz	Input attenuation aE, sym.	0.8 dB (≤ 1 MHz / 50 Ω)
		0.3 dB (≤ 250 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 150 Ohm system typ. 2 MHz	Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 7 MHz
	Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 2 MHz



## Technical data

#### Protective circuit

Resistance in series	4.7 Ω ±10 %
	4.7 Ω
Surge protection fault message	None
Surge current resistance (conductor-conductor)	C2 - 10 kV/5 kA
	C3 - 100 A
Surge current resistance (conductor-ground)	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 1 kA

#### Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14

### Standards and Regulations

Standards/regulations	IEC 61643-21
	EN 50020

#### General

Maximum inner capacitance C <sub>i</sub>	3 nF
Maximum inner inductance L <sub>i</sub>	1 μΗ
Maximum inner time factor (R <sub>i</sub> /L <sub>i</sub> )	0.1 µs
Max. input current I <sub>i</sub>	250 mA
Max. input voltage U <sub>i</sub>	30 V

### 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

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### Classifications

eCl@ss
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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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Approvals

GOST

Ex Approvals

**ATEX** 

Approvals submitted

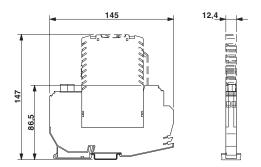
Approval details



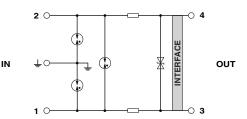
Drawings



Dimensioned drawing



Circuit diagram



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