

TT-PI-EX-TB/T

Order No.: 2858344




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



Commercial data	
EAN	4017918914035
Note	Made-to-order
Pack	10
Customs tariff	85363010
Weight/Piece	95.09 g
Country of Origin	DE
Catalog page information	Page 111 (TT-2009)

Product notes

WEEE/RoHS-compliant since:
07/11/2007



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Technical data	
General	
Housing material	PBT
Inflammability class acc. to UL 94	V2
Color	black

Standards for air and creepage distances	VDE 0110-1
	IEC 60664-1: 1992-10
Total surge current (8/20) μ s	10 kA
Ambient temperature (operation)	-20 °C ... 60 °C
Mounting type	DIN rail 35 mm
Design	PI basic terminal block
Number of positions	2
Degree of protection	IP20
Direction of action	Line-Line & Line-Earth Ground
Width	12.35 mm
Height	84.50 mm
Length	144.70 mm
Protective circuit	
IEC category	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V DC
Arrester rated voltage U_C	30 V DC
	21 V AC
Arrester rated voltage U_C (Core-Core)	30 V DC
	21 V AC
Nominal current I_N	250 mA (40°C)
Operating effective current I_C at U_C	$\leq 5 \mu$ A
Ground conductor current I_{PE}	$\leq 4 \mu$ A
Nominal discharge surge current I_n (8/20) μ s (Core-Core)	5 kA
Nominal discharge surge current I_n (8/20) μ s (Core-Earth)	5 kA
Total surge current (8/20) μ s	10 kA
Max. discharge surge current I_{max} (8/20) μ s maximum (Core-Core)	5 kA
Max. discharge surge current I_{max} (8/20) μ s maximum (Core-Earth)	5 kA
Nominal pulse current I_{an} (10/1000) μ s (Core-Core)	100 A

Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	100 A
Lightning test 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	≤ 45 V
Residual voltage at I_n , (conductor-conductor)	≤ 45 V
Residual voltage with I_{an} (10/1000) μs (conductor-conductor)	≤ 45 V
Protection level U_p (Core-Core)	≤ 90 V (C2 (10 kV/5 kA))
Protection level U_p (Core-Earth)	≤ 1.85 kV (C2 (10 kV/5 kA))
Response time t_A (Core-Core)	≤ 1 ns
Response time t_A (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	0.8 dB (≤ 1 MHz / 50 Ω)
	0.3 dB (≤ 250 kHz / 150 Ω)
Cut-off frequency f_g (3 dB), sym. in 50 Ohm system	Typ. 7 MHz
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	Typ. 2 MHz
Resistance in series	4.7 $\Omega \pm 10$ %
	4.7 Ω
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C2 (10 kV/5 kA)
	C3 (100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (10 kV/5 kA)
	C3 (100 A)
	D1 (1 kA)

Connection data

Type of connection	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24

Conductor cross section AWG/kcmil max	14
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Connection, protective circuit

Standards/regulations	IEC 61643-21
	EN 50020

General

Maximum inner capacitance C_i	3 nF
Maximum inner inductance L_i	1 μ H
Maximum inner time factor (R_i/L_i)	0.1 μ s

Certificates



Certification	GOST
Certification Ex:	KEMA-EX, PxC-EX

Accessories

Item	Designation	Description
Bridges		
2966692	FBST 500-PLC BU	Continuous plug-in bridge, Length: 500 mm, Color: blue
2966838	FBST 500-PLC GY	Continuous plug-in bridge, Length: 500 mm, Color: gray
2966786	FBST 500-PLC RD	Continuous plug-in bridge, Length: 500 mm, Color: red

Marking

0800284	ZBFM 6/WH,LGS:1-100	Zack strip, flat, 100-section, labeled horizontally with consecutive numbers from 1-100, for all terminal blocks, pitch 6.2 mm, color: white
0803621	ZBFM 6/WH,LGS:FORTL.ZAHLEN	Zack strip, flat, 100-section, labeled horizontally with consecutive numbers from 1-10, 11-20 etc. up to 91-100, 10 identically marked strips per flat Zack strip, for all terminal blocks, pitch 6.2 mm, color: white
0803618	ZBFM 6/WH:UNBEDRUCKT	Zack marker sheet, flat, unprinted: 100-section, 10 strips à 10 markers, sufficient for 100 terminal blocks, for all terminal blocks, pitch 6.2 mm, labeling with M-PEN or CMS system, color: white
0803650	ZBFM 6:SO/CMS	Special printing, Zack marker sheet, flat, 100-section, divisible, marking according to customer requirements

Additional products

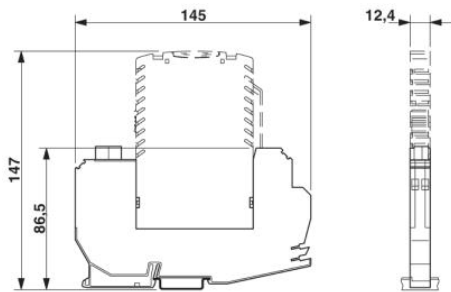
Item	Designation	Description
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Bridges

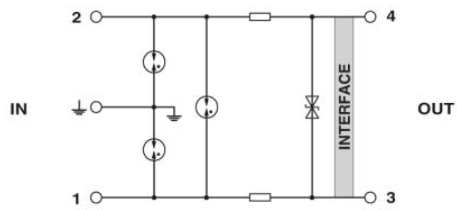
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Drawings

Dimensioned drawing



Circuit diagram



Address

PHOENIX CONTACT Ltd
Halesfield 13
Telford / Shropshire / TF7 4PG,England
Phone 01952 681 700
Fax 01952 681 799
<http://www.phoenixcontact.co.uk>



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