Extract from the online catalog

LIT 4-24

Order No.: 2804678

http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2804678

Surge protection in one-piece 6.2 mm wide DIN rail module for four floating signal wires.

SIL evaluated IEC 61508

Product notes

WEEE/RoHS-compliant since: 06/24/2008

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Commercial data

GTIN (EAN)	4 046356 428293
sales group	J342
Pack	10 pcs.
Customs tariff	85363010
Catalog page information	Page 98 (TT-2009)

Technical data

General

Housing material	PBT
Inflammability class acc. to UL 94	V0
Color	black

Standards for air and creepage distances	IEC 60664-1
	EN 60079-11
Total surge current (8/20) µs	20 kA
Total surge current (10/350) µs	2 kA
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Mounting type	DIN rail: 35 mm
Design	Rail-mountable module, one-piece
Degree of protection	IP20
Direction of action	Line-Line & Line-Earth Ground
Width	6.20 mm
Height	102.50 mm
Length	93.00 mm

Protective circuit

IEC category	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V DC
Maximum continuous operating voltage U_C	25 V AC
	36 V DC
Nominal current I_N	500 mA (40°C)
Operating effective current I_C at U_C	≤ 2 µA (per path)
Ground conductor current I_{PE}	≤ 4 µA
Nominal discharge surge current I_n (8/20) µs (Core-Core)	250 A
Nominal discharge surge current I_n (8/20) µs (Core-Earth)	5 kA
	20 kA (Total)
Total surge current (8/20) µs	20 kA
Max. discharge surge current Imax (8/20) µs maximum (Core-Core)	250 A
Max. discharge surge current Imax (8/20) µs maximum (Core-Earth)	10 kA
	20 kA (Total)
Nominal pulse current Ian (10/1000) µs (Core-Core)	50 A

Nominal pulse current Ian (10/1000) µs (Core-Earth)	50 A
	200 A (Total)
Lightning test current (10/350) µs, peak value I_{imp}	500 A
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 60 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 650 V
Residual voltage at I_n, (conductor-conductor)	≤ 60 V
Residual voltage with Ian (10/1000)µs (conductor-conductor)	≤ 60 V
Protection level U_P (Core-Core)	≤ 60 V (C1 - 500 V / 250 A)
	≤ 60 V (C3 - 10 A)
Protection level U_P (Core-Earth)	≤ 650 V (C1 - 500 V / 250 A)
	≤ 650 V (C2 - 10 kV / 5 kA)
	≤ 700 V (D1 - 500 A)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	Typ. 0.1 dB (1 MHz / 50 Ω)
	Typ. 0.1 dB (450 kHz / 150 Ω)
Cut-off frequency fg (3 dB), asym. (GND) in 50 Ohm system	Typ. 7.5 MHz
Cut-off frequency fg (3 dB), asym. (GND) in 100 Ohm system	Typ. 2.5 MHz
Capacity	≤ 1.3 nF (per path)
Resistance in series	0 Ω
Max. required back-up fuse	500 mA
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (500 V / 250 A)
	C3 (25 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (10 kV/5 kA)
	C3 (25 A)
	D1 (500 A)
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Earth)	5 A - 1 s

Connection data

Connection method	Screw connection

Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12

Connection, equipotential bonding

Connection method	DIN rail NS35

Connection, protective circuit

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

Certificates / Approvals

Certification	UL Listed
Certification Ex:	IECEx, KEMA-EX

Accessories

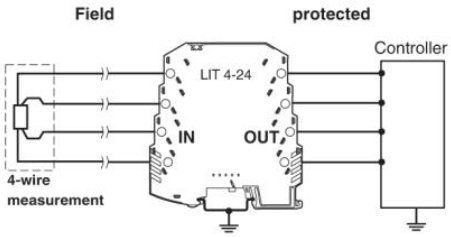
Item	Designation	Description
General		
1857919	IMC 1,5/ 5-ST-3,81	Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Connection method: Screw connection, Color: green
2969401	ME 6,2 TBUS-2 1,5/5-ST-3,81KMGY	DIN rail bus connector for potential bridging of devices arranged next to one another across all modules.

Marking

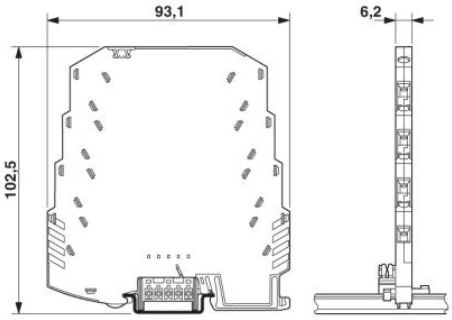
0818085	UC-TM 6	UniCard materials for labeling terminal blocks with a marker groove,80-section, can be labeled with BLUEMARK X1 and CMS-P1-PLOTTER, color: white
0818344	UC-TM 6 BU	UniCard materials for labeling terminal blocks with a marker groove,80-section, can be labeled with BLUEMARK X1 and CMS-P1-PLOTTER, color: blue
0818360	UC-TM 6 GN	UniCard materials for labeling terminal blocks with a marker groove,80-section, can be labeled with BLUEMARK X1 and CMS-P1-PLOTTER, color: green
0818328	UC-TM 6 OG	UniCard materials for labeling terminal blocks with a marker groove,80-section, can be labeled with BLUEMARK X1 and CMS-P1-PLOTTER, color: orange
0818357	UC-TM 6 RD	UniCard materials for labeling terminal blocks with a marker groove,80-section, can be labeled with BLUEMARK X1 and CMS-P1-PLOTTER, color: red
0818331	UC-TM 6 YE	UniCard materials for labeling terminal blocks with a marker groove,80-section, can be labeled with BLUEMARK X1 and CMS-P1-PLOTTER, color: yellow

Diagrams/Drawings

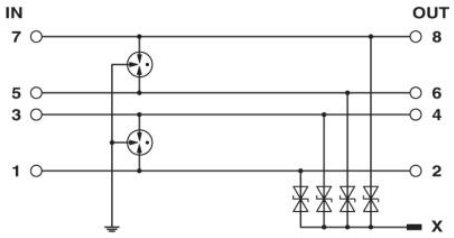
Application drawing



Dimensioned drawing



Circuit diagram



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