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# LIT 4X1-24

Order No.: 2804649




<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2804649>

Surge protection in one-piece 6.2 mm wide DIN rail module for four conductors with common reference potential.



## Commercial data

GTIN (EAN)	 4 046356 428286
sales group	J342
Pack	10 pcs.
Customs tariff	85363010
Catalog page information	Page 97 (TT-2009)

## Product notes

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



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

## Technical data

### General

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

Standards for air and creepage distances	IEC 60664-1
Total surge current (8/20) $\mu$ s	20 kA
Total surge current (10/350) $\mu$ s	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-Earth Ground
Width	6.20 mm
Height	102.50 mm
Length	93.00 mm
<b>Protective circuit</b>	
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 $I_N$	350 mA (40°C)
Operating effective current $I_C$ at $U_C$	$\leq 2 \mu$ A
Ground conductor current $I_{PE}$	$\leq 8 \mu$ A
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Earth)	5 kA
	20 kA ((Total))
Total surge current (8/20) $\mu$ s	20 kA
Max. discharge surge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth)	10 kA
	20 kA ((Total))
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Earth)	50 A
	200 A ((Total))
Lightning test current (10/350) $\mu$ s, peak value $I_{imp}$	500 A
Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) spike	$\leq 60$ V

Residual voltage at $I_n$ , (conductor-ground)	$\leq 50$ V
Residual voltage with $I_{an}$ (10/1000) $\mu$ s (conductor-ground)	$\leq 60$ V
Protection level $U_p$ (Core-Earth)	$\leq 60$ V (C1 - 500 V / 250 A)
	$\leq 95$ V (C2 - 10 kV / 5 kA)
	$\leq 60$ V (C3 - 10 A)
Response time $t_A$ (Core-Earth)	$\leq 1$ ns
Input attenuation $a_E$ , asym.	Typ. 0.3 dB (1 MHz / 50 $\Omega$ )
	Typ. 0.2 dB (350 kHz / 150 $\Omega$ )
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 50 Ohm system	Typ. 6 MHz
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system	Typ. 2 MHz
Capacity	$\leq 1.3$ nF (per channel)
Resistance in series	3.3 $\Omega$ 20 %
Max. required back-up fuse	315 mA
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 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12

**Connection, equipotential bonding**

Connection method	DIN rail NS35
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**Connection, protective circuit**

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

**Certificates / Approvals**



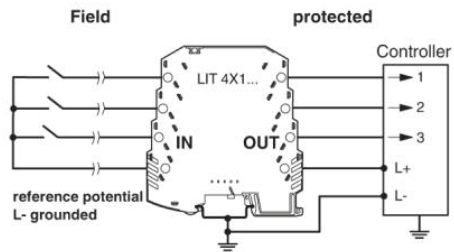
Certification UL Listed

**Accessories**

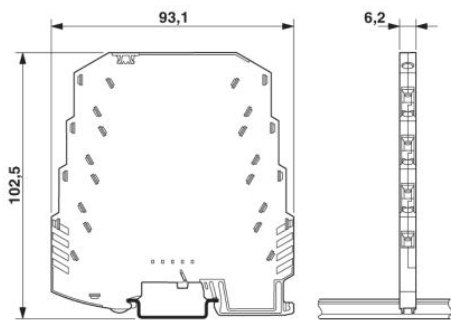
Item	Designation	Description
<b>Marking</b>		
0818085	UC-TM 6	UniCard materials for labeling terminal blocks with a marker groove,80-section, can be labeled with BLUEMARK X1 and CMS-P1-PLOTTER, color: white
0818344	UC-TM 6 BU	UniCard materials for labeling terminal blocks with a marker groove,80-section, 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

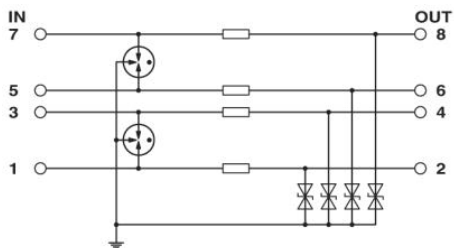
### Application drawing



### Dimensioned drawing



### Circuit diagram



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