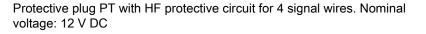


catalog

PT 5-HF-12 DC-ST

Order No.: 2838775





Product notes

WEEE/RoHS-compliant since: 05/22/2006

Commercial data	
EAN	4017918480646
Pack	10 pcs.
Customs tariff	85363010
Weight/Piece	0.0255 KG
Catalog page information	Page 76 (TT-2007)

http://

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Technical data

General

Housing material	PA
Inflammability class acc. to UL 94	V0
Color	black
Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1: 1992-10

Surge voltage category	III
Pollution degree	2
Total surge current (8/20) µs	20 kA
Ambient temperature (operation)	-40 °C 85 °C
Mounting type	On base element
Design	DIN rail module, two-section, divisible
Number of positions	5
Degree of protection	IP20
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/ Shield-Earth Ground
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00
Width	17.70 mm
Height	52.00 mm
Length	45.00 mm
Pitch unit	1 Div.
Protective circuit	
IEC category	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Nominal voltage U _N	12 V DC
Max. operating voltage U_{max}	14 V DC
Arrester rated voltage U_c	14 V DC
	9.8 V AC
Arrester rated voltage U_c (Core-Core)	14 V DC
	9.8 V AC
Arrester rated voltage U_c (Core-Earth)	14 V DC (with PT 2x2-BE)
Nominal current I _N	450 mA (45°C)
Operating effective current $I_{\rm c}$ at $U_{\rm c}$	≤ 5 μA
Discharge current to PE at U_{c}	\leq 5 µA (with PT 2x2-BE)
	\leq 1 µA (with PT 2x2+F-BE)

Nominal discharge surge current In (8/20) µs (Core-Core)	10 kA
Nominal discharge surge current I_{n} (8/20) μs (Core-Earth)	10 kA
Total surge current (8/20) μs	20 kA
Max. discharge surge current Imax (8/20) µs maximum (Core-Core)	10 kA
Max. discharge surge current Imax (8/20) µs maximum (Core-Earth)	10 kA
Nominal pulse current lan (10/1000) μs (Core- Core)	67 A
Lightning test current (10/350) $\mu s,$ peak value $I_{\mbox{\tiny imp}}$	2.5 kA
Output voltage limitation at 1 kV/µs (Core-Core) spike	$\leq 25 \text{ V}$
Output voltage limitation at 1 kV/µs (Core-Earth) spike	$\leq 25 \text{ V}$
	\leq 700 V (with PT 2x2+F-BE)
Output voltage limitation at 1 kV/µs (Core-Core) static	$\leq 25 \text{ V}$
Output voltage limitation at 1 kV/µs (Core-Earth) static	$\leq 25 \text{ V}$
Output voltage limitation at 1 kV/µs (Core-GND) static	\leq 40 V (with PT 2x2+F-BE)
Residual voltage at I_n , (conductor-conductor)	$\leq 25 \text{ V}$
Residual voltage at In, (conductor-ground)	\leq 40 V
Residual voltage at In, (conductor-GND)	\leq 25 V (with PT 2x2-BE)
Residual voltage with Ian (10/1000)µs (conductor- conductor)	\leq 25 V
Residual voltage with Ian (10/1000)µs (conductor-GND)	$\leq 25 \text{ V}$
Response time tA (Core-Core)	≤ 500 ns
Response time tA (Core-Earth)	≤ 500 ns
Input attenuation aE, sym.	0.2 dB (≤ 5 MHz)
Cut-off frequency fg (3 dB), sym. in 100 Ohm system	Typ. 70 MHz
Capacity (Core-Core)	Тур. 30 рF
Resistance in series	2.2 Ω
Max. required back-up fuse	500 mA (e.g. T in acc. with IEC 127-2/III)
Connection data	

Type of connection Screw connection (in connection with the base element)

Connection type IN	PLUGTRAB plug-in system
Connection type OUT	PLUGTRAB plug-in system
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.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Connection, protective circuit

	Standards/regulations	IEC 61643-21
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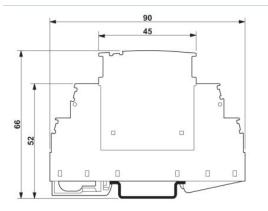
Certificates / Approvals



Certification		GOST, UL Listed
Certification E	Ēx:	CUL-EX LIS, UL-EX LIS
Accessories		
Item	Designation	Description
Marking		
0811228	X-PEN 0,35	Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm
0811228	X-PEN 0,35	Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm
0811228	X-PEN 0.35	Marker pen without ink cartridge for manual labeling of markers

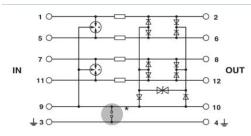
0811228	X-PEN 0,35	Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm
0814717	ZBF 15:SO/CMS	Zack strip, flat, 10-section, divisible, special printing, marking according to customer requirements
0808671	ZBF 5,LGS:FORTL.ZAHLEN	Zack strip, flat, printed horizontally: 10-section, with the numbers, 1-10, 11-20 etc. up to 991-1000, color: White
0810821	ZBF 5,LGS:GERADE ZAHLEN	Zack marker strip, flat, printed horizontally: 10-section, with even numbers, printed with the numbers: 2-20, 22-40, etc. up to 82-100
0810863	ZBF 5,LGS:UNGERADE ZAHLEN	Zack strip, flat, printed horizontally: 10-section, with odd numbers, printed with the numbers: 1-19, 21-39 etc. up to 81-99

Dimensioned drawing



The figure shows the complete module consisting of a base element and connector

Circuit diagram



Approval logo (Ex area)

