



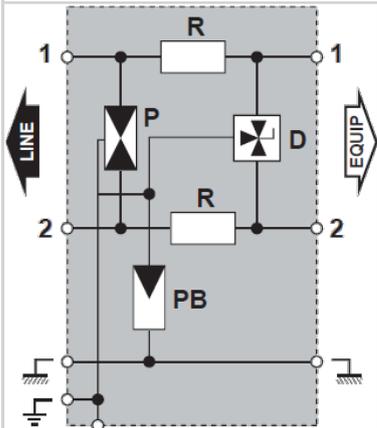
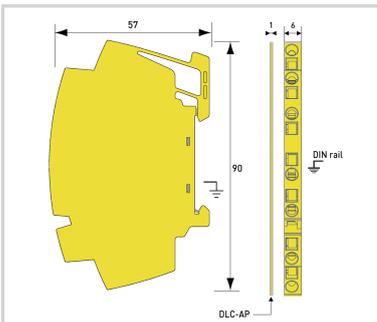
CITEL

UL497B LISTED - I_{max} 20kA - I_n 5kA - Modular

DLC-12DBC



- Hybrid SAD-GDT Technology
- Compact 6mm module
- UL497B LISTED
- 10kA I_{max} (1x 8/20 μ s)
- 2.5kA I_{imp} (2x 10/350 μ s)
- 5kA I_n (10x 8/20 μ s)
- 2W+SHIELD+G
- Common/Differential mode protection



P : 3-poliger Gasableiter
Pb : 2-poliger Gasableiter
R : Widerstand oder Spule
D : Diode
G: 3-electrode gas tube
Gb: 2-electrode gas tube
R: Resistor
D: Clamping diode

Electrical Characteristics

Network		RS232, RS485
Nominal line voltage	U _n	12 V
Max. DC operating voltage	U _c	15 Vdc
Max. frequency	f max.	20 MHz
Cut-off frequency -3dB, 100 ohm system	f max.	> 100 MHz
Cut-off frequency -1dB, 100 ohm system	f max.	> 45 MHz
Insertion loss		< 1 dB
Max. load current @25°C	IL	300 mA
Max. discharge current max. withstand @ 8/20 μ s by pole	I _{max}	10 kA
Nominal Discharge Current, X-C (Line/Earth) 8/20 μ s Test x 10 - C2 Category	I _n L/PE	5 kA
Protection Level C3 (10/1000 μ s), 300 applications@10 A, Y-Y (Line/Line)	U _p	30 V
Protection Level C3 (10/1000 μ s), 300 applications@10 A, X-C (Line/Earth)	U _p	30 V
Impulse current 2 x 10/350 μ s Test - D1 Category	I _{imp}	2.5 kA
Line resistance (\pm 10%)		4.7 Ohm
DATA SPD TYPE		UL497B LISTED
VOLTS	(V)	12
WIRES		2W+Shield+G
LINE CURRENT MAX	(A)	0.3
AMBIENT MIN	(C)	-50
AMBIENT MAX	(C)	+85
RESIDUAL VOLTAGE	(V)	20
MCOV	(V)	8/72/72
IN 10 impulses 8/20 μ s	(kA)	5
IMAX 8/20 μ s	(kA)	10
I _{imp} 10/350 μ s	(kA)	2.5
DATA SPEED	(Mbps)	10/100/1000
FREQUENCY	(MHz)	20
INSERTION LOSS (@ FREQ)	(db)	< 1

Mechanical Characteristics

Technology		GDT+TVS diode
Connection to Network		By spring terminal - max. cross section 2.5mm ² / AWG 13 (solid or stranded)
Format		DIN box



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Operating temperature	Tu	-40/+85°C
Ingress Protection rating		IP20 (NEMA 2)
Failsafe mode		Short-circuit
TECHNOLOGY		SAD-GDT
NETWORK CONFIGURATION		1 pair
CONNECTION METHOD		Screw Terminal
MOUNTING		Din Rail
MATERIAL		Thermoplastic UL94-V0
NEMA RATING (IP RATING)		NEMA 2 (IP20)
DIMENSIONS		See diagram
WEIGHT		0.30 lbs
Standards		
Certification		UL 497B
UL STANDARD		UL497B
UL CATEGORY		QVGQ
UL FILE NUMBER		E184939
STANDARDS		IEC 61643-11, NOM-003-SCFI-2014, NOM-001-SCFI-1993
ENVIRONMENTAL STANDARDS		ROHS
Part number		
641112		

