



# CITEL

## UL497B LISTED - I<sub>max</sub> 20kA - I<sub>n</sub> 5kA - Modular

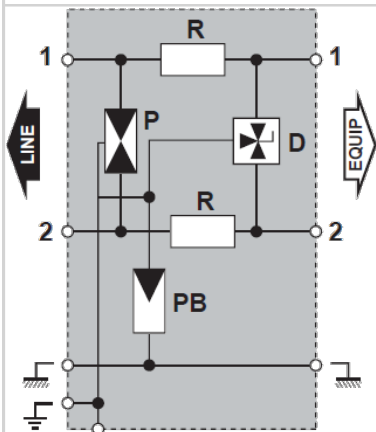
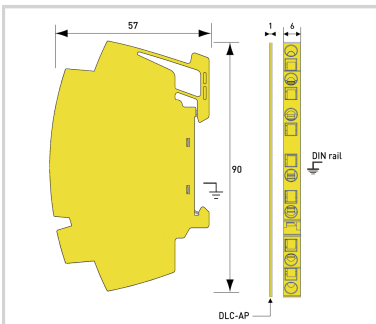
### DLC-24DBC



- Hybrid Technology
- Compact 6mm module
- UL497B LISTED
- 10kA I<sub>max</sub> (1x 8/20 $\mu$ s)
- 2.5kA I<sub>imp</sub> (2x 10/350 $\mu$ s)
- 5kA I<sub>n</sub> (10x 8/20 $\mu$ s)
- 2W+SHIELD+G
- Common/Differential mode protection



SIL3  
IEC61508



Erdung über Hutschiene

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		4-20mA, Liaison 24V
Nominal line voltage	U <sub>n</sub>	24 V
Max. DC operating voltage	U <sub>c</sub>	28 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 $\mu$ s by pole	I <sub>max</sub>	10 kA
Nominal Discharge Current, X-C (Line/Earth) 8/20 $\mu$ s Test x 10 - C2 Category	I <sub>n</sub> L/PE	5 kA
Protection Level C3 (10/1000 $\mu$ s), 300 applications@10 A, Y-Y (Line/Line)	U <sub>p</sub>	40 V
Protection Level C3 (10/1000 $\mu$ s), 300 applications@10 A, Y-C (Line/Earth)	U <sub>p</sub>	40 V
Impulse current 2 x 10/350 $\mu$ s Test - D1 Category	I <sub>imp</sub>	2.5 kA
Line resistance ( $\pm$ 10%)		4.7 Ohm
DATA SPD TYPE		UL497B LISTED
VOLTS	(V)	24
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 $\mu$ s	(kA)	5
IMAX 8/20 $\mu$ s	(kA)	10
I <sub>imp</sub> 10/350 $\mu$ 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 <sup>2</sup> / AWG 13 (solid or stranded)
Format		DIN box



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### DLC-24DBC

Mounting		Symmetrical rail 35 mm (EN 60715)
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
<b>Standards</b>		
Certification		UL listed / SIL
Environmental standards		EU RoHS
UL STANDARD		UL497B
UL CATEGORY		QVGQ
UL FILE NUMBER		E184939
STANDARDS		IEC 61643-11, NOM-003-SCFI-2014, NOM-001-SCFI-1993
<b>Part number</b>		
<b>641113</b>		

