

DLA, DLA2, DLAN, DLAW

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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DATA LINE SURGE PROTECTORS




CITEL RANGE

CITEL surge protectors for industrial data networks are designed to fit on symmetrical DIN rail.

Due to multiple possible configurations requested, CITEL offers a large range of solutions, the surge protectors are available in various configurations:

- Number of protected wires: 1 to 2 pairs.
- Screw or spring contact wiring
- Transmission and protection of the shield wire
- Compactness (DLC)
- Plug-in modules: Fixed version (DLU, DLU2) or Version with removable module (DLA, DLA2) to ease the maintenance process.
- Signalling or remote signalling feature in case of end of life (DLAS1, DLATS1)
- Higher load current

The summary table below informs the different features related to the different models of dataline SPDs for DIN mounting.

DLA - DLA2 - DLAS1 - DLATS1 	Pluggable 1 or 2 pairs Screw/spring connection I _{max} 20 kA
DLU - DLU2 	Monobloc 1 or 2 pairs Screw connection I _{max} 20 kA
DLC 	Compact Monobloc 1 pair Spring connection I _{max} 10 kA

CITEL range	Line configuration	Pluggable Module	Line transmission when plug-out	Default mode (following IEC61643-21)	Shield management	Wire Connection	Default Signalling	Default Remote Signalling	Width	I _{max}	Max Load current
DLA	1 pair	Y	On	Mode 2	Y	screw	N	N	13 mm	20 kA	0.3 A
DLA/R	1 pair	Y	On	Mode 2	Y	spring	N	N	13 mm	20 kA	0.3 A
DLAW	1 pair	Y	Off	Mode 2	Y	screw	N	N	13 mm	20 kA	0.3 A
DLAW/R	1 pair	Y	Off	Mode 2	Y	spring	N	N	13 mm	20 kA	0.3 A
DLAHW/R	1 pair	Y	Off	Mode 2	Y	spring	N	N	13 mm	20 kA	2.4 A
DLAH	1 pair	Y	On	Mode 2	Y	screw	N	N	13 mm	20 kA	2.4 A
DLAH/R	1 pair	Y	On	Mode 2	Y	spring	N	N	13 mm	20 kA	2.4 A
DLA2	2 pairs	Y	On	Mode 2	Y	screw	N	N	18 mm	20 kA	0.3 A
DLA-IS	1 pair + 0V	Y	On	Mode 2	Y	screw	N	N	18 mm	20 kA	2.4 A
DLAS1	1 pair	Y	On	Mode 2	Y	screw	Y	N	18 mm	20 kA	0.3 A
DLAS1/R	1 pair	Y	On	Mode 2	Y	spring	Y	N	18 mm	20 kA	0.3 A
DLAWS1	1 pair	Y	Off	Mode 2	Y	screw	Y	N	18 mm	20 kA	0.3 A
DLAWS1/R	1 pair	Y	Off	Mode 2	Y	spring	Y	N	18 mm	20 kA	0.3 A
DLATS1	1 pair	Y	On	Mode 2	Y	screw	Y	Y	18 mm	20 kA	0.3 A
DLATS1/R	1 pair	Y	On	Mode 2	Y	spring	Y	Y	18 mm	20 kA	0.3 A
DLAWTS1	1 pair	Y	Off	Mode 2	Y	screw	Y	Y	18 mm	20 kA	0.3 A
DLAWTS1/R	1 pair	Y	Off	Mode 2	Y	spring	Y	Y	18 mm	20 kA	0.3 A
DLC	1 pair	N	NA	Mode 2	N	spring	N	N	6 mm	10 kA	0.3 A
DLU	1 pair	N	NA	Mode 2	Y	screw	N	N	18 mm	20 kA	0.3 A
DLU2	2 pairs	N	NA	Mode 2	N	screw	N	N	18 mm	20 kA	0.3 A
DLUH	1 pair	N	NA	Mode 2	Y	screw	N	N	18 mm	20 kA	2.4 A
DLUH2	2 pairs	N	NA	Mode 2	N	screw	N	N	18 mm	20 kA	2.4 A

DLA SERIES



- Pluggable surge protection for «DIN» mounting
- All types of Telephone and Data lines
- Shield wire protection
- Screw (DLA) or spring contact (DLA/R) terminals
- Without line cut-off (DLA) or with (DLAW)
- IEC 61643-21 compliance
- UL497A approved

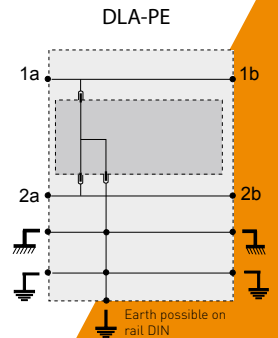
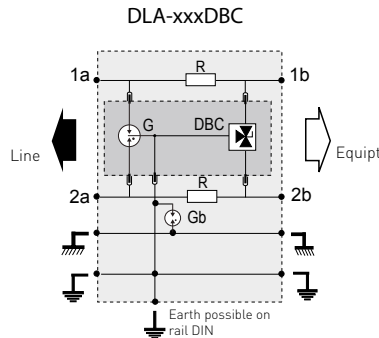
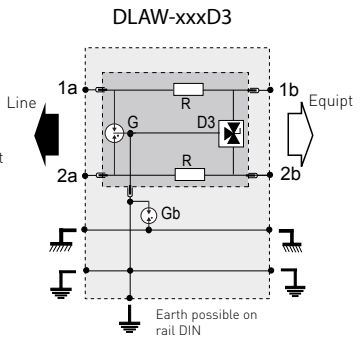
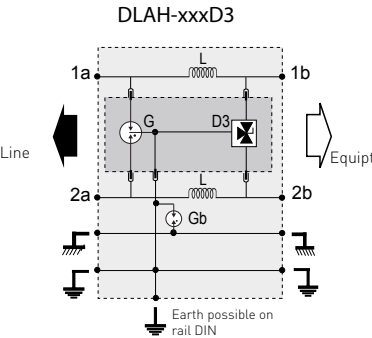
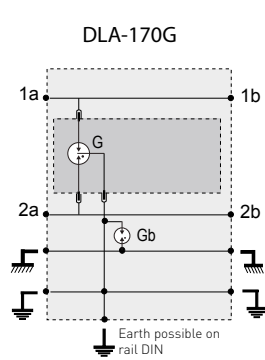
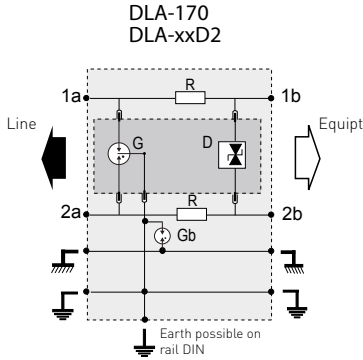
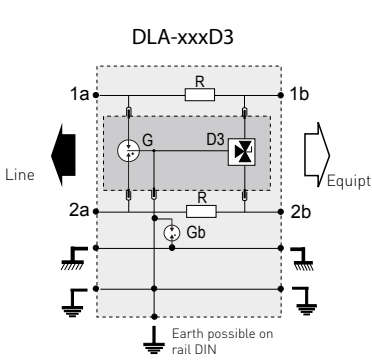
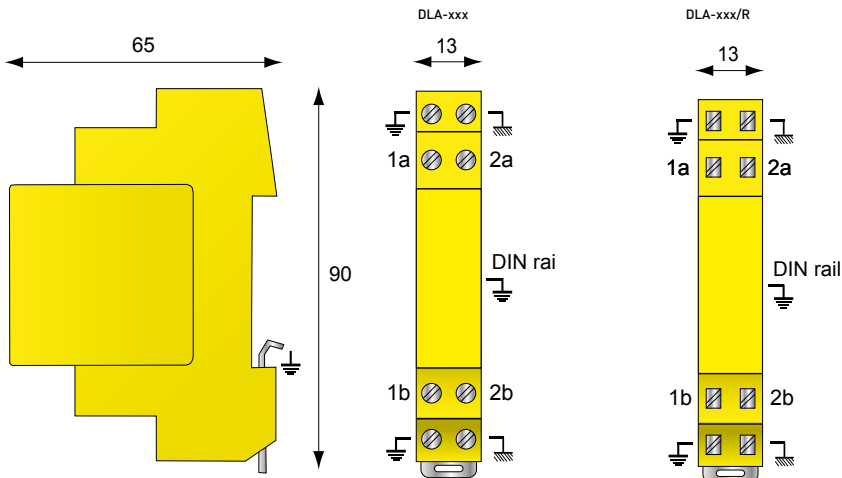
Characteristics

CITEL Model	DLA-170G	DLA-170	DLA-48DBC	DLA-48D3	DLA-24D3	DLA-12D3	DLA-06DBC	DLA-06D3	
Description	Telecom/Data SPD- 1-pair DIN mounting - Pluggable								
Network	Telephone line, ADSL2, VDSL2, SHDSL	Telephone line, ADSL2, VDSL	Fipway, WorldFIP, FieldBus-h2	ISDN-T0, 48 V line	4-20 mA	RS232, RS485	E1/T2 line 10BaseT	RS422	
SPD configuration	1-pair+shield	1-pair+shield	1-pair+shield	1-pair+shield	1-pair+shield	1-pair+shield	1-pair+shield	1-pair+shield	
Nominal line voltage	Un 150 V	150 V	48 V	48 V	24 V	12 V	6 V	6 V	
Max. DC operating voltage	Uc 170 V	170 V	53 V	53 V	28 V	15 V	8 V	8 V	
Max. Load current	IL 300 mA	300 mA	300 mA	300 mA	300 mA	300 mA	300 mA	300 mA	
Max. frequency	f max > 100 MHz	> 10 MHz	> 20 MHz	> 3 MHz	> 3 MHz	> 3 MHz	> 20 MHz	> 3 MHz	
Insertion loss @ fmax	< 1 dB	< 1 dB	< 1 dB	< 1 dB	< 1 dB	< 1 dB	< 1 dB	< 1 dB	
Nominal discharge current 8/20µs Test x 10 - C2 Category	In 5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	
Max. discharge current max. withstand @ 8/20 µs by pole	Imax 20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	
Impulse current 2 x 10/350µs Test - D1 Category	Iimp 5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	
Protection level following C3 Category test	Up 750 V	220 V	75 V	70 V	40 V	30 V	25 V	20 V	
Failsafe behavior	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit	
Mechanical characteristics									
Dimensions	see diagram								
Format	Plug-in DIN box								
Connection to Network	DLA-xxx: screw terminal - cross section 0.4-1.5 mm ² DLA-xxx/R: spring terminal - cross section 0.4-1.5 mm ²								
Disconnection indicator	transmission interrupt - Default Mode 2								
Mounting	Symmetrical rail 35 mm (EN60715)								
Operating temperature	-40/+85°C								
Protection rating	IP20								
Housing material	Thermoplastic UL94 V-0								
Spare module	DLAM-170G	DLAM-170	DLAM-48DBC	DLAM-48D3	DLAM-24D3	DLAM-12D3	DLAM-06DBC	DLAM-06D3	
Versions	DLA-xxx: standard version (line continuity in case of removal of plug-in module) - screw terminal DLA-xxx/R: standard version with spring contact terminal DLAW-xxx: specific version with line cut-off in case of removal plug-in module. DLAH-xxx: «remote supply» version with max. line current IL = 2,4 A DLA-PE: grounding version								
Standards									
Compliance	IEC 61643-21 / EN 61643-21 / UL497A								
Part number									
DLA range	640165	6406011	640421	6403021	6403011	6402011	640121	6401011	
DLA/R range	-	6401054	6404214	6403024	6401034	6402014	6401214	6401014	
DLAH range	-	641005	641014	641004	641003	641002	641011	641001	
DLAW range	-	640805	-	640804	640803	640802	640811	640801	

DIN RAIL PLUG-IN SURGE PROTECTOR FOR DATALINE/TELECOM

DLA-**xxx** / **W** / **H**

- Wiring: « » [Screw] or «R» [Spring]
- Bit rate [D3 or DBC]
- Nominal voltage
- « »: standard diagram
- «W»: line cut-off if removal plug-in module
- «H»: max. line current IL: 2.4 A



G: 3-electrode gas tube
 Gb: 2-electrode gas tube
 R: Resistor
 D: Clamping diode

DLA2 SERIES



DLA2-24D3

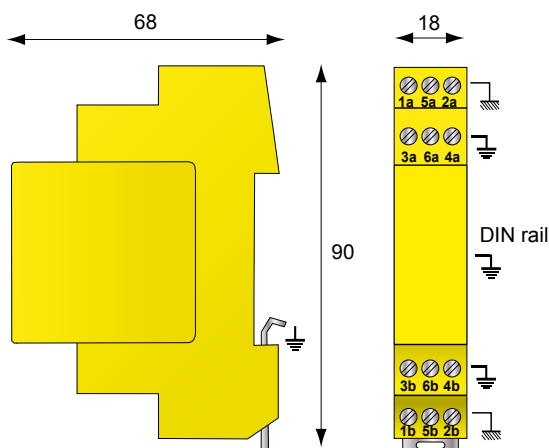
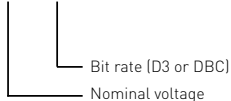
- Pluggable surge protection for «DIN» mounting
- 2-pair surge protection
- All type of telecom and data lines
- Shield wire protection
- IEC 61643-21 compliance
- UL497 A approved

Characteristics

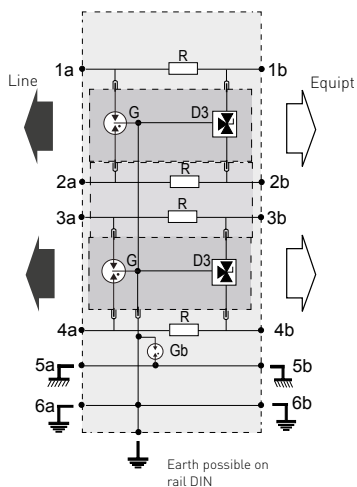
CITEL Model		DLA2-170	DLA2-48DBC	DLA2-48D3	DLA2-24D3	DLA2-12D3	DLA2-06DBC	DLA2-06D3
Description		Telecom/Data SPD- 2-pair -DIN mounting - Pluggable						
Network		Telephone line, ADSL2, VDSL	Fipway, WorldFIP, FieldBus-h2	ISDN-T0, 48 V line	4-20 mA	RS232, RS485	MIC/T2, 10BaseT	RS422
SPD configuration		2-pair + shield	2-pair + shield	2-pair + shield	2-pair + shield	2-pair + shield	2-pair + shield	2-pair + shield
Nominal line voltage	Un	150 V	48 V	48 V	24 V	12 V	6 V	6 V
Max. DC operating voltage	Uc	170 V	53 V	53 V	28 V	15 V	8 V	8 V
Max. Load current	IL	300 mA	300 mA	300 mA	300 mA	300 mA	300 mA	300 mA
Max. frequency	f max	> 10 MHz	> 20 MHz	> 3 MHz	> 3 MHz	> 3 MHz	> 20 MHz	> 3 MHz
Insertion loss @ fmax		< 1 dB	< 1 dB	< 1 dB	< 1 dB	< 1 dB	< 1 dB	< 1 dB
Nominal discharge current 8/20µs Test x 10 - C2 Category	In	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA
Max. discharge current -max. withstand @ 8/20 µs by pole	Imax	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Impulse current 2 x 10/350µs Test - D1 Category	Iimp	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA
Protection level following C3 Category test	Up	220 V	75 V	70 V	40 V	30 V	25 V	20 V
Failsafe behavior		Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit
Mechanical characteristics								
Dimensions		see diagram						
Format		Plug-in DIN box						
Connection to Network		screw terminal - cross section 0.4-1.5 mm ²						
Disconnection indicator		transmission interrupt - Default Mode 2						
Mounting		Symmetrical rail 35 mm (EN60715)						
Operating temperature		-40/+85°C						
Protection rating		IP20						
Housing material		Thermoplastic UL94 V-0						
Spare module		DLA2M-170	DLA2M-48DBC	DLA2M-48D3	DLA2M-24D3	DLA2M-12D3	DLA2M-06DBC	DLA2M-06D3
Standards								
Compliance		IEC 61643-21 / EN 61643-21 / UL497A						
Part number								
		640611	640314	640312	640311	640211	640131	640111

2-PAIR DIN RAIL PLUG-IN SURGE PROTECTOR FOR DATALINE/TELECOM

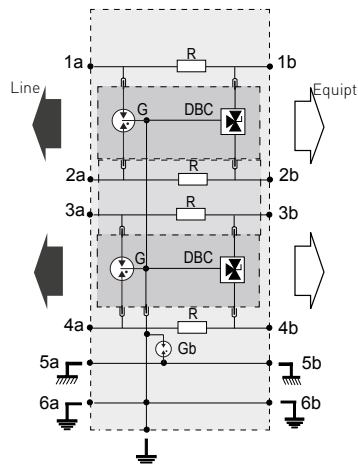
DLA2-**xxx** **D3**



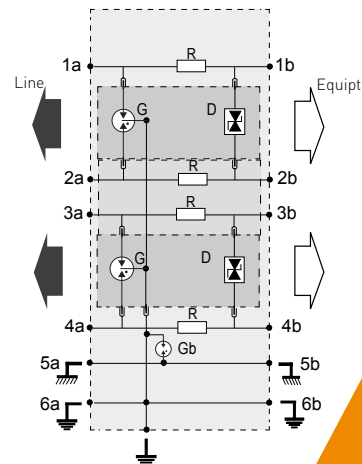
DLA2-xxxD3



DLA2-xxDBC



DLA2-170



G: 3-electrode gas tube
Gb: 2-electrode gas tube
R: Resistor
D: Clamping diode

DIN RAIL PLUG-IN SURGE PROTECTOR FOR DATALINE



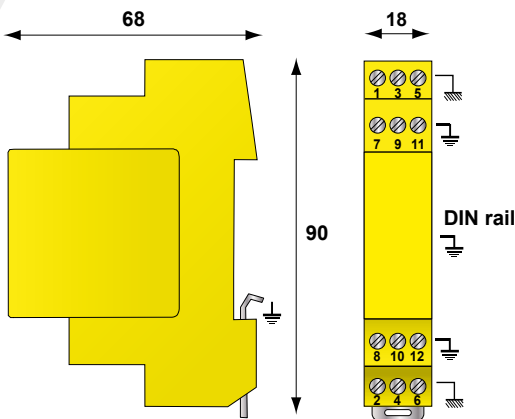
DLA-06-IS

DLA-IS



- Pluggable surge protection for «DIN» mounting
- For RS422 or RS485 Datalines
- 1-pair + Signal ground + Shield protection
- IEC 61643-21 / UL497A compliance

Characteristics



CITEL Model	DLA-06-IS	DLA-12-IS
Description	1-pair Data SPD - DIN mounting	Pluggable
Network	RS422	RS232 / RS485
SPD configuration	1-pair + Signal Ground + shield	1-pair + Signal Ground + shield
Nominal line voltage	Un 6 V	12 V
Max. DC operating voltage	Uc 8 V	15 V
Max. Load current	IL 2.4 A	2.4 A
Max. frequency	f max > 3 MHz	> 3 MHz
Insertion loss @ fmax	< 1 dB	< 1 dB
Nominal discharge current <i>8/20µs Test x 10 - C2 Category</i>	In 5 kA	5 kA
Max. discharge current <i>max. withstand @ 8/20 µs by pole</i>	Imax 20 kA	20 kA
Impulse current <i>2 x 10/350µs Test - D1 Category</i>	limp 5 kA	5 kA
Protection level <i>following C3 Category test</i>	Up 20 V/650 V	30 V/650 V
Failsafe behavior	Short-circuit	Short-circuit

Mechanical characteristics

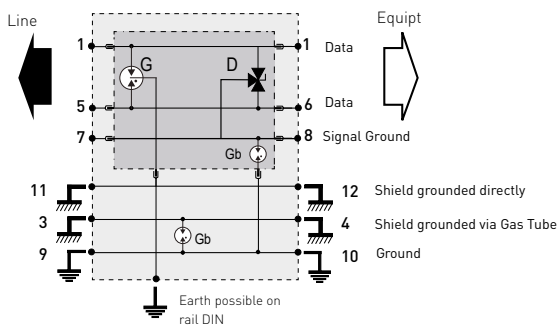
Dimensions	see diagram	
Format	Plug-in DIN box	
Connection to Network	screw terminal - cross section 0.4-1.5 mm ²	
Disconnection indicator	transmission interrupt - Default Mode 2	
Mounting	Symmetrical rail 35 mm (EN60715)	
Operating temperature	-40/+85°C	
Protection rating	IP20	
Housing material	Thermoplastic UL94 V-0	
Spare module	DLAM-06-IS	DLAM-12-IS

Standards

Compliance	IEC 61643-21 / EN 61643-21 / UL497A
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Part number

	6406011	640152
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G: 3-electrode gas tube
Gb: 2-electrode gas tube
D: Clamping diode

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