

ACT 422 DLU Family

A DIN Mounted Data / Telephone Protection Device



▶ The ACT 422 DLU and DLU2 family of Din rail mounted surge protectors are resettable and are designed to protect your sensitive datacom, telephone, and instrumentation equipment against harmful lightning surges and electrical transients.

These surge protectors must be installed on a symmetrical DIN rail and are available for transmission lines ranging from 6 - 170Vdc and can handle transmission speeds up to 10 Mbps.

These surge protectors utilize a hybrid technology consisting of Gas Tube and fast clamping diodes that combine an ultra-fast response time (<1 ns) and a higher power handling capability of 20 kA.

The DLU protects 1 pair (2 wires) and the DLU2 protects 2 pairs (4 wires). These surge protectors protect the shield to ground via gas tube and offer direct earth grounding via the din rail clip.

▶ RECOMMENDED LOCATION

- Commercial & Industrial

▶ FEATURES AND BENEFITS

- DIN Rail Mounting
- All types of Telephone and Data Lines
- Monoblock Housing
- Single and Dual pair versions
- Transmission and protection of shield wire (DLU)

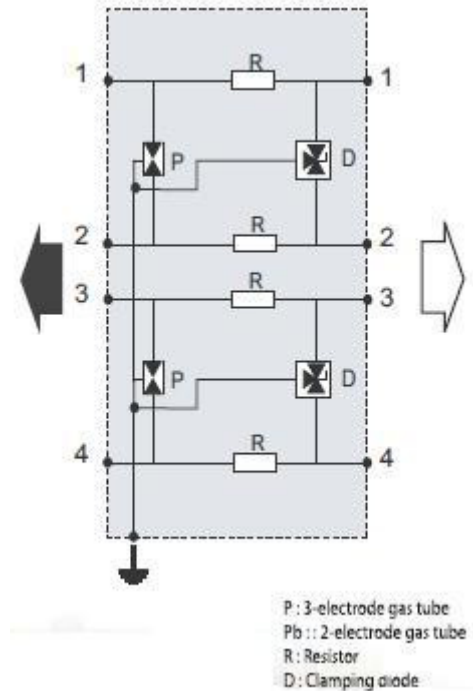
▶ STANDARDS MET

- Safety – UL Listed
- IEC 61643-21 Compliant
- ANSI/IEEE C62.41, C62.45

ACT 422 DLU / DLU2 DIN Mounted Family

2-pair version: DLU2

Part Number	DLU2-170	DLU2-48D3	DLU2-24D3	DLU2-12D3	DLU2-06D3	DLU2-06DBC
Typical Application	Telephone line ADSL	48 V line	4-20 mA 24 V line	RS232	RS422	T2 - T1 10BaseT
Configuration	2 pairs	2 pairs	2 pairs	4 wires	2 pairs	2 pairs
Nominal line voltage (Un)	150 V	48 V	24 V	12 V	6 V	6 V
Max. line voltage (Uc)	170 V	53 V	28 V	15 V	10 V	10 V
Max. line current	300 mA	300 mA	300 mA	300 mA	300 mA	300 mA
Protection level (Up) 8/20 μ s impulse - 5kA	220 V	70 V	70 V	30 V	20 V	25 V
Nominal discharge current (In) 8/20 μ s impulse - 10 times	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA
Max. discharge current (Imax) 8/20 μ s impulse - 1 time	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Impulse current (Iimp) 10/350 μ s impulse - 2 times	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA
Type of diagram	D	C	C	C	C	C
End of life	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit
Mechanical characteristics	Monobloc Symmetrical DIN rail mounting Dimensions: See drawing Screw terminal connection - min/max: 22/16 AWG Housing material: Thermoplastic UL 94-V0 Ground connection via DIN rail (DLU, DLU2) and screw terminal (DLU).					



1-pair version: DLU

Part Number	DLU-170	DLU-48D3	DLU-48DBC	DLU-24D3	DLU-12D3	DLU-12DBC	DLU-06D3	DLU-06DBC
Typical Application	Telephone line ADSL	48 V line	Fipway WorldFIP Fieldbus-H2	4-20 mA 24 V line	Profibus-FMS interbus Fieldbus-H1 Batibus	Profibus-DP LONwork	RS485	6 V line high bitrate
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	48 V	48 V	24 V	12 V	12 V	6 V	6 V
Max. line voltage (Uc)	170 V	53 V	53 V	28 V	15 V	15 V	10 V	10 V
Max. line current	300 mA	300 mA	300 mA	300 mA	300 mA	300 mA	300 mA	300 mA
Protection level (Up) 8/20 μ s impulse - 5kA	220 V	70 V	75 V	40 V	30 V	35 V	20 V	25 V
Nominal discharge current (In) 8/20 μ s impulse - 10 times	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA
Max. discharge current (Imax) 8/20 μ s impulse - 1 time	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Impulse current (Iimp) 10/350 μ s impulse - 2 times	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA
Type of diagram	D	D	D	D	D	D	C	C
End of life	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit	Short-circuit
Mechanical characteristics	Monobloc Symmetrical DIN rail mounting Dimensions: See drawing Screw terminal connection - min/max: 22/16 AWG Housing material: Thermoplastic UL 94-V0 Ground connection via DIN rail (DLU, DLU2) and screw terminal (DLU).							

