

# FLT-MB-T1-264/25-3+1-UT - Type 1+2+3 combined lightning current and surge arresters



1461303

<https://www.phoenixcontact.com/us/products/1461303>

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Compact, non-pluggable lightning current/surge arrester free of leakage current based on wear-free carbon spark gap technology for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE), suitable for use in the unmetred area, discharge capacity of up to 100 kA for lightning protection levels I and II.

## Your advantages

- Safe operation and maximum system availability, thanks to reliable protection in the event of lightning current and surge voltages using innovative high-performance spark gap technology
- Maximum performance in the smallest installation space for all common power supply systems
- Suitable for use in the unmetred area, thanks to a protective circuit free of leakage current, and to a mechanical visual status indicator
- Space-saving and inexpensive installation, thanks to the slim overall width
- Informed at all times about the function of the protective effect, thanks to clear green/red indicator and optional remote indication contact

## Commercial data

Item number	1461303
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL11D2
GTIN	4063151853150
Weight per piece (including packing)	596.4 g
Weight per piece (excluding packing)	560 g
Country of origin	CN

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## Technical data

### Product properties

Product type	Combination type
IEC test classification	I + II + III
	T1 + T2 + T3
EN type	T1 + T2 + T3
IEC power supply system	TN-S
	TT
Type	DIN rail module, one-piece
Surge protection fault message	optical
Number of ports	One

### Insulation characteristics

Overvoltage category	IV
Pollution degree	2

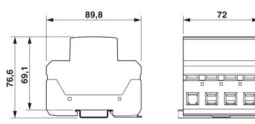
### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
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### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (2,5 mm <sup>2</sup> ... 16 mm <sup>2</sup> )
	4.5 Nm (25 mm <sup>2</sup> ... 35 mm <sup>2</sup> )
Stripping length	18 mm
Conductor cross-section flexible	2.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross-section rigid	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross-section AWG	13 ... 2
Connection method	Fork-type cable lug
Conductor cross-section flexible	2.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>

### Dimensions

Dimensional drawing	
Width	72 mm
Height	89.8 mm
Depth	76.6 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	4 Div.

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## Material specifications

Color	light gray (RAL 7035)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PBT
Material group	I
Housing material	PBT

## Mechanical properties

### Mechanical data

Open side panel	No
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## Protective circuit

Mode of protection	L-N
	L-PE
	N-PE
Nominal voltage $U_N$	240/415 V AC (TN-S)
	240/415 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$	264 V AC
Rated load current $I_L$	80 A (< 55 °C)
Protective conductor current $I_{PE}$	≤ 0.01 mA
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-N)	25 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-PE)	25 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (N-PE)	100 kA
Combination wave $U_{OC}$	6 kV
Impulse discharge current (10/350) $\mu$ s (L-N), charge	12.5 As
Impulse discharge current (10/350) $\mu$ s (L-N), specific energy	156 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s (L-N), peak current value $I_{imp}$	25 kA
Impulse discharge current (10/350) $\mu$ s (L-PE), charge	12.5 As
Impulse discharge current (10/350) $\mu$ s (L-PE), specific energy	156 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s (L-PE), peak current value $I_{imp}$	25 kA
Impulse discharge current (10/350) $\mu$ s (N-PE), charge	50 As
Impulse discharge current (10/350) $\mu$ s (N-PE), specific energy	2500 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s (N-PE), peak current value $I_{imp}$	100 kA
Total discharge current $I_{Total}$ (10/350) $\mu$ s	100 kA
Follow current quenching capacity $I_{fi}$ (L-N)	50 kA
Follow current interrupt rating $I_{fi}$ (N-PE)	100 A
Short-circuit current rating $I_{SCCR}$	50 kA

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Voltage protection level $U_p$ (L-N)	$\leq 1.5$ kV
Voltage protection level $U_p$ (L-PE)	$\leq 2.5$ kV
Voltage protection level $U_p$ (N-PE)	$\leq 1.5$ kV
Residual voltage $U_{res}$ (L-N)	$\leq 1.5$ kV (at $I_n$ )
	$\leq 1.3$ kV (at 12.5 kA)
	$\leq 1.1$ kV (at 5 kA)
	$\leq 1$ kV (at 2.5 kA)
Residual voltage $U_{res}$ (L-PE)	$\leq 1.7$ kV (at $I_n$ )
	$\leq 1.5$ kV (at 12.5 kA)
	$\leq 1.3$ kV (at 5 kA)
	$\leq 1.2$ kV (at 2.5 kA)
Residual voltage $U_{res}$ (N-PE)	$\leq 1.5$ kV (at $I_n$ )
	$\leq 1.3$ kV (at 50 kA)
	$\leq 1.1$ kV (at 20 kA)
	$\leq 1$ kV (at 10 kA)
TOV behavior at $U_T$ (L-N)	457 V AC (5 s / withstand mode)
	457 V AC (120 min / withstand mode)
TOV behavior at $U_T$ (N-PE)	1200 V AC (200 ms / withstand mode)
Response time $t_A$	$\leq 100$ ns
Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	315 A (gG)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20 (Installed)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	$\leq 5000$ m
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	2g (Half-sine / 11 ms / 3x $\pm X$ , $\pm Y$ , $\pm Z$ )
Vibration (operation)	0,5g (9 ... 200 Hz / 2.5 h / X, Y, Z)

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

## Mounting

Mounting type	DIN rail: 35 mm
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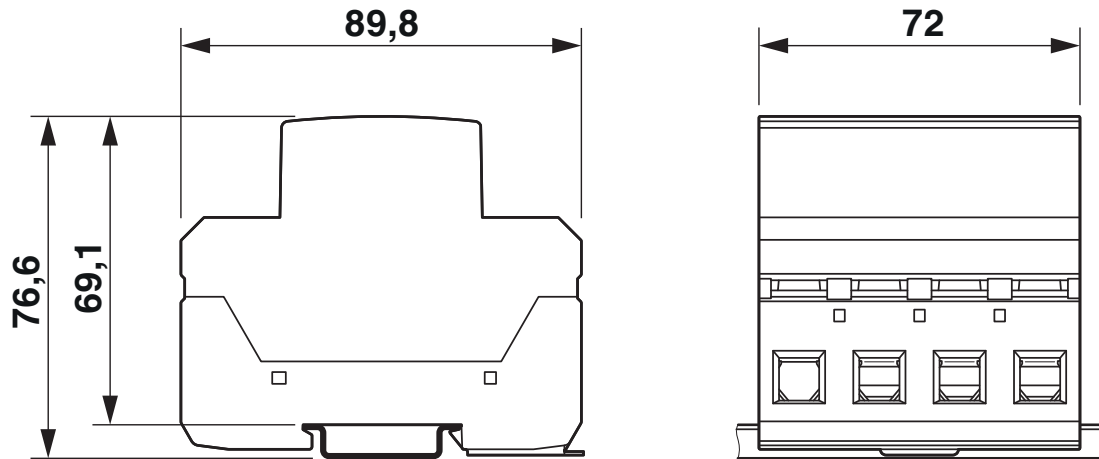
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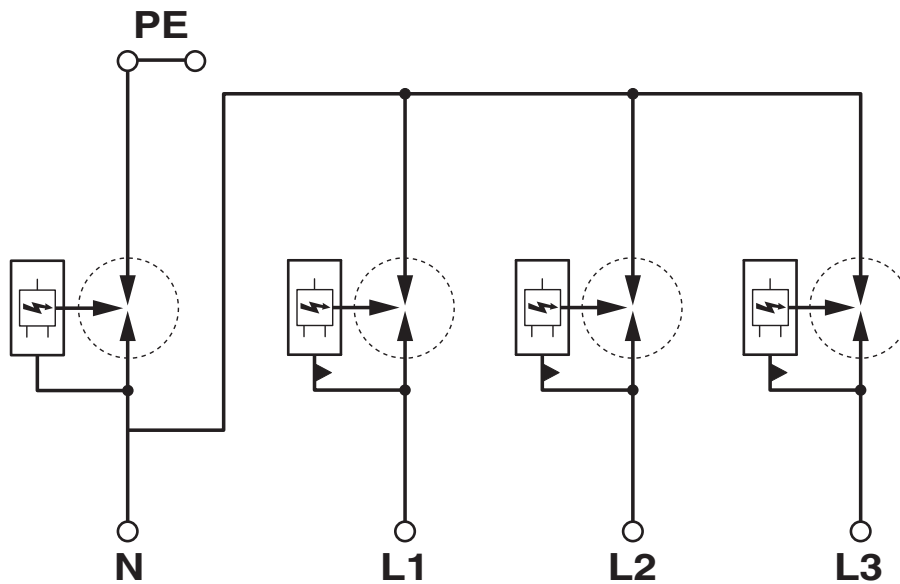
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## Drawings

Dimensional drawing



Circuit diagram



# FLT-MB-T1-264/25-3+1-UT - Type 1+2+3 combined lightning current and surge arresters



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1461303>



**KEMA-KEUR**

Approval ID: 71-136866



**IECEE CB Scheme**

Approval ID: NL-109225

**CCA**

Approval ID: NTR NL-8051

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## Classifications

### ECLASS

ECLASS-13.0	27171201
ECLASS-15.0	27171201

### ETIM

ETIM 10.0	EC000381
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)