

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

1461304
<https://www.phoenixcontact.com/au/products/1461304>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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 unmetered area, discharge capacity of up to 100 kA for lightning protection levels I and II, with remote signaling.

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 unmetered 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	1461304
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL11D2
Product key	CL11D2
GTIN	4063151851767
Weight per piece (including packing)	604.7 g
Weight per piece (excluding packing)	565 g
Customs tariff number	85363030
Country of origin	CN

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



1461304

<https://www.phoenixcontact.com/au/products/1461304>

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, remote indicator contact

Insulation characteristics

Overvoltage category	IV (main circuit)
	II (Auxiliary circuit)
Pollution degree	2

Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
-------------------------	---------------

Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	12 V AC ... 250 V AC
	125 V DC (200 mA DC)
Operating current	10 mA AC ... 0.5 A AC
	0.5 A DC (30 V DC)

Connection data

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

Remote fault indicator contact

Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2

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



1461304

<https://www.phoenixcontact.com/au/products/1461304>

Tightening torque	0.5 Nm ... 0.6 Nm
Stripping length	7 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

Dimensions

Dimensional drawing	
Width	72 mm
Height	99.7 mm
Depth	76.6 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	4 Div.

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
-----------------	----

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 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) μs (L-N)	25 kA
Nominal discharge current I_n (8/20) μs (L-PE)	25 kA
Nominal discharge current I_n (8/20) μs (N-PE)	100 kA
Combination wave U_{OC}	6 kV

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



1461304

<https://www.phoenixcontact.com/au/products/1461304>

Impulse discharge current (10/350) μ s (L-N), charge	12.5 As
Impulse discharge current (10/350) μ s (L-N), specific energy	156 kJ/ Ω
Impulse discharge current (10/350) μ s (L-N), peak current value I_{imp}	25 kA
Impulse discharge current (10/350) μ s (L-PE), charge	12.5 As
Impulse discharge current (10/350) μ s (L-PE), specific energy	156 kJ/ Ω
Impulse discharge current (10/350) μ s (L-PE), peak current value I_{imp}	25 kA
Impulse discharge current (10/350) μ s (N-PE), charge	50 As
Impulse discharge current (10/350) μ s (N-PE), specific energy	2500 kJ/ Ω
Impulse discharge current (10/350) μ s (N-PE), peak current value I_{imp}	100 kA
Total discharge current I_{Total} (10/350) μ 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
Voltage protection level U_p (L-N)	≤ 1.5 kV
Voltage protection level U_p (L-PE)	≤ 2.5 kV
Voltage protection level U_p (N-PE)	≤ 1.5 kV
Residual voltage U_{res} (L-N)	≤ 1.5 kV (at I_n)
	≤ 1.3 kV (at 12.5 kA)
	≤ 1.1 kV (at 5 kA)
	≤ 1 kV (at 2.5 kA)
Residual voltage U_{res} (L-PE)	≤ 1.7 kV (at I_n)
	≤ 1.5 kV (at 12.5 kA)
	≤ 1.3 kV (at 5 kA)
	≤ 1.2 kV (at 2.5 kA)
Residual voltage U_{res} (N-PE)	≤ 1.5 kV (at I_n)
	≤ 1.3 kV (at 50 kA)
	≤ 1.1 kV (at 20 kA)
	≤ 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	≤ 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

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



1461304

<https://www.phoenixcontact.com/au/products/1461304>

Altitude	≤ 2000 m (operating voltage remote contact ≤ 250 V)
	≤ 5000 m (operating voltage remote contact ≤ 150 V)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	2g (Half-sine / 11 ms / 3x ±X, ±Y, ±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

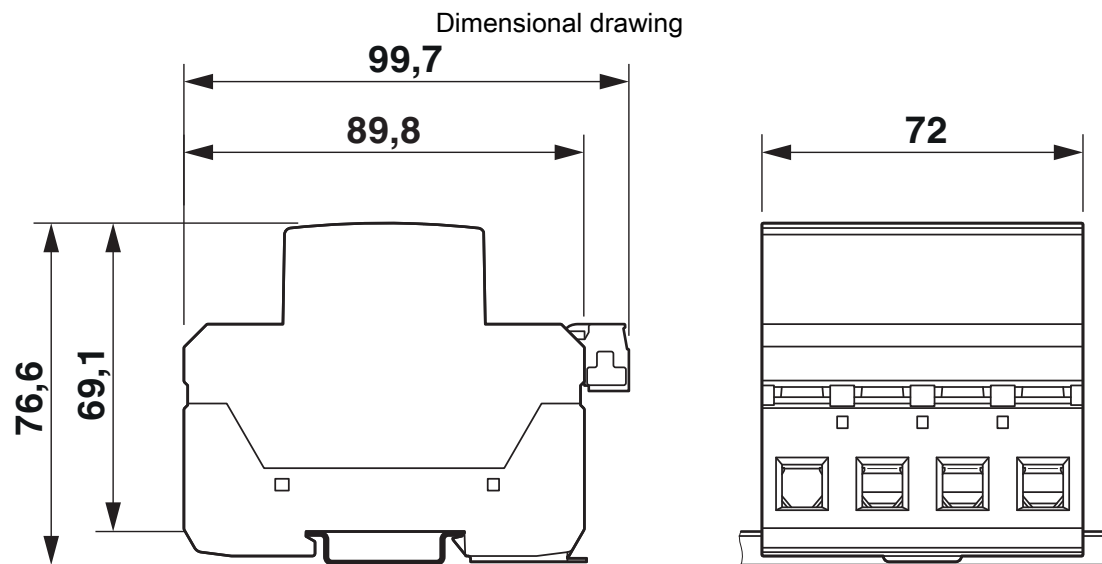
Mounting type	DIN rail: 35 mm
---------------	-----------------

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

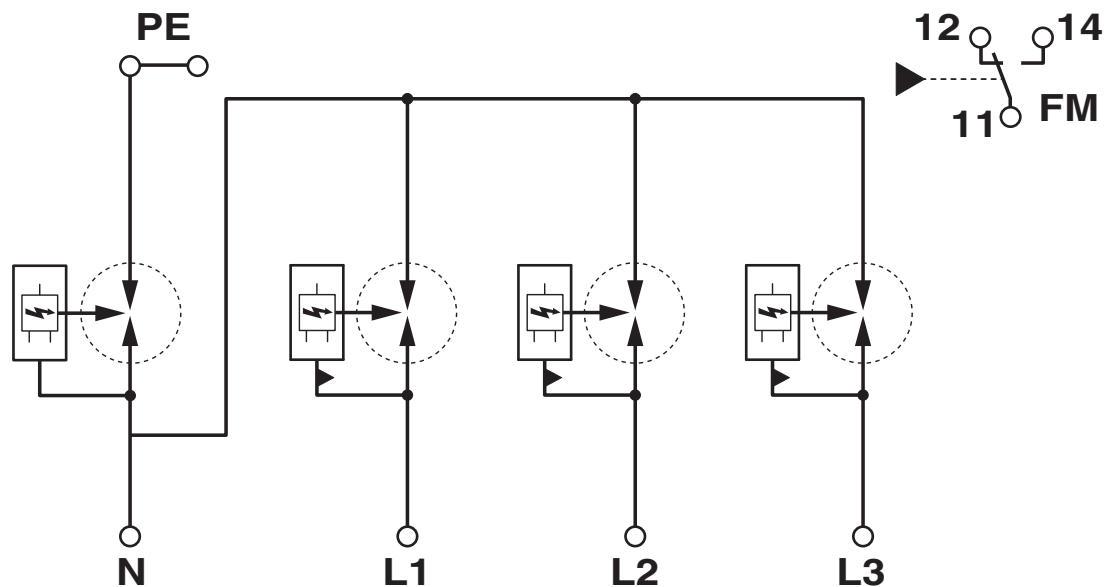
1461304

<https://www.phoenixcontact.com/au/products/1461304>

Drawings



Circuit diagram



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



1461304

<https://www.phoenixcontact.com/au/products/1461304>

Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/1461304>



KEMA-KEUR

Approval ID: 71-136866



IECEE CB Scheme

Approval ID: NL-109225

CCA

Approval ID: NTR NL-8051

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



1461304
<https://www.phoenixcontact.com/au/products/1461304>

Classifications

ECLASS

ECLASS-13.0	27171201
-------------	----------

ETIM

ETIM 9.0	EC000381
----------	----------

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



1461304
<https://www.phoenixcontact.com/au/products/1461304>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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%

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT PTY Ltd
Unit 7, 2-8 South Street
Rydalmere NSW 2116
1300 786 411
customerservice@phoenixcontact.com.au