



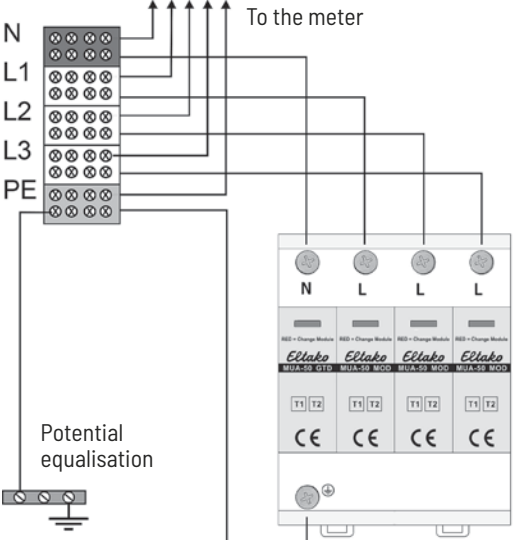
**Modular surge arrester  
MUA-50**

**Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!**

Temperature at mounting location: -20°C up to +50°C.  
Storage temperature: -25°C up to +70°C.  
Relative humidity: annual average value < 75%.

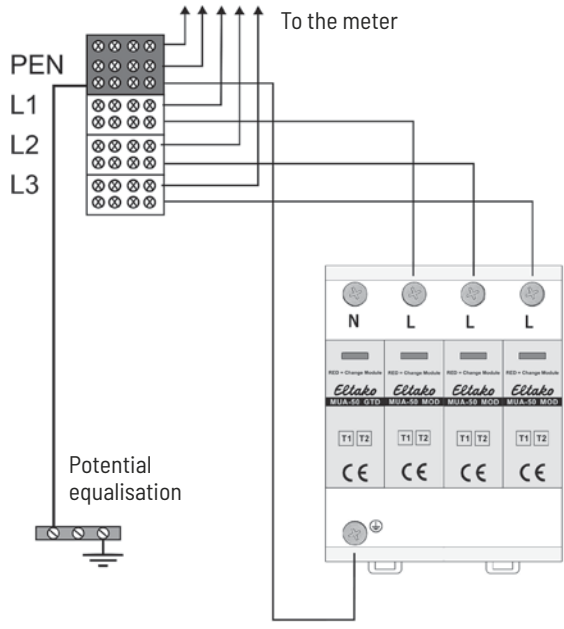
**Modular 12.5 kA Type 1+2 surge arrester for DIN rail mounting. Suitable for TT, TN-C, and TN-S systems.**

**5-wire networks (TN-S and TT)**

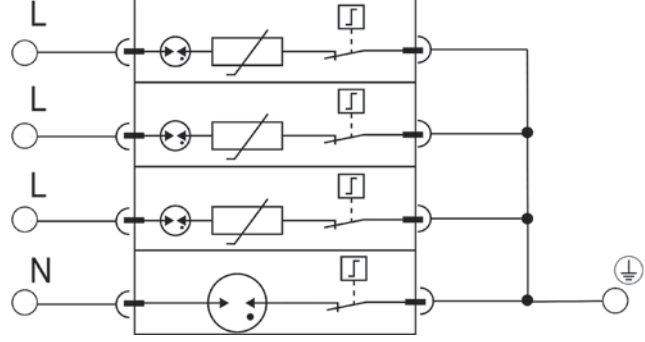


In the TNC-S network, the separation of the PEN into N+PE must be at least 50 cm of cable length from the arrester.

**4-wire networks (TN-C system)**

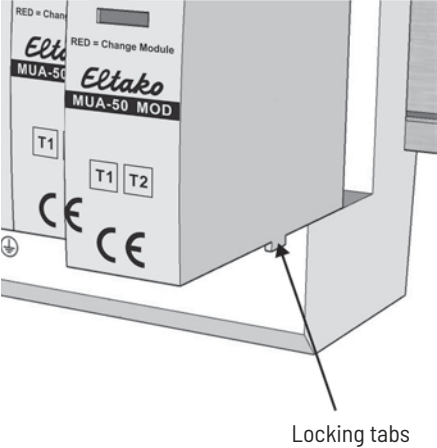


**Circuit diagram**



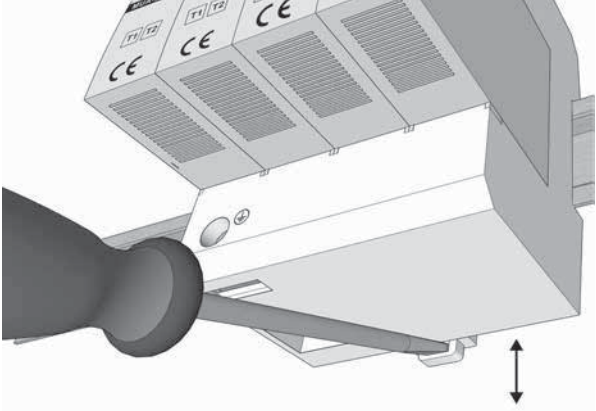
**Locking tabs for sealable cover**

Tabs are attached to the individual modules to prevent the modules from being pulled out when the cover is sealed.



**Mounting on a DIN rail**

The latch, which can be easily opened with a screwdriver, makes it easier to install and remove the arrester from the DIN rail.



**Terms**

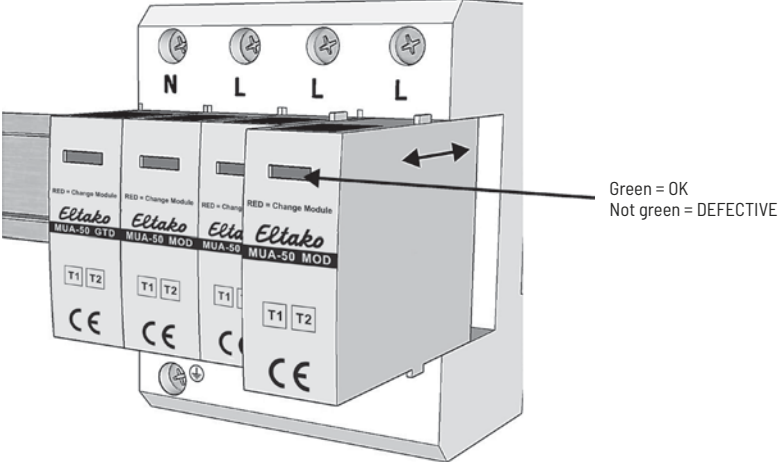
- RfZ:** Room for additional applications
- NAR:** Network-side connection room
- APZ:** Meter cabinet connection point

**Maintenance**

If an error message is displayed (the viewing window is not green), the affected modules must be replaced. The modular design allows single replacement.

**PLEASE NOTE!**

Opening the sealed cover exposes live system components! Seals may only be opened by a specialist authorised by the local grid operator, who will reseal the cover properly after the module has been replaced.



**Technical data**

Nominal AC voltage (50/60 Hz)	$U_0/U_n$	240 V
Maximum continuous operating voltage (AC)	(L1-N) $U_c$	300 V
	(N-PE) $U_c$	305 V
Nominal discharge current (8/20 $\mu$ s)	(L-N)(N-PE) $I_n$	20 kA/80 kA
Maximum discharge current (8/20 $\mu$ s)	(L-N)(N-PE) $I_{max}$	50 kA/100 kA
Impulse discharge current (10/350 $\mu$ s)	(L-N)(N-PE) $I_{imp}$	12.5 kA/50 kA
Specific energy	(L-N)(N-PE) W/R	39 kJ/ $\Omega$ / 225 kJ/ $\Omega$
Charge	(L-N)(N-PE) Q	3.75 As/15 As
Open circuit voltage of combination	$U_{oc}$	6 kV
Wave generation		
voltage protection level	(L-N)(N-PE) $U_p$	1500 V/1500 V
Follow current interrupt rating	(N-PE) $I_n$	100 ARMS
Response time	(L-N)(N-PE) $t_A$	<100 ns/<100 ns
Overcurrent protection (max.)		160 A gG
Short circuit current rating (AC)	$I_{scCR}$	25 kA
TOV withstand 120 min	$U_T$	442 V
TOV withstand 200 ms	$U_T$	1200 V

Standards: IEC 61643-11; VDE 0100-534, VDE AR-N-4100  
TÜV certificate: AN 50567910 0001



**Warning!**  
Connection and installation should only be carried out by a qualified electrician. Regional regulations of the responsible grid operator must be strictly observed. The devices may only be used within the limits specified in the technical data.  
If covers are opened during module replacement and live parts are visible, this part of the system must be de-energised.

Manuals and documents in further languages:



<https://eltako.com/redirect/MUA-50>



**Must be kept for later use!**

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32/2025 Subject to change without notice.