

TE Connectivity (TE)'s Modular Fuse Holders – MFH range

Customer presentation
2024-07

EVERY CONNECTION COUNTS



MODULAR FUSE HOLDERS

Introduction

The modular fuse holders are designed to accommodate **10 mm x 38 mm**, **class CC** and **photovoltaic fuses** with options for **1**, **2**, or **3** poles, including **neutral** configurations.

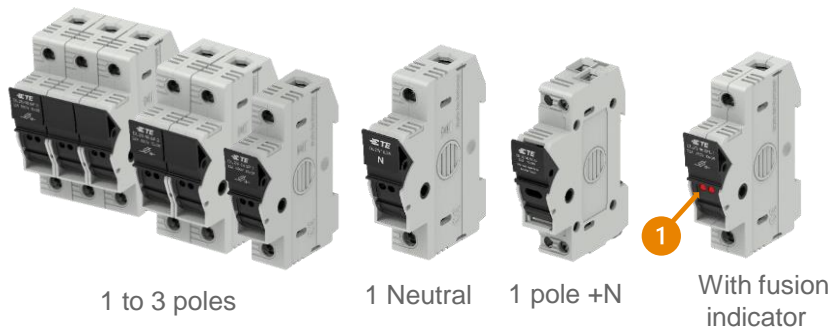
Whether with or without a blown fuse indicator, TE's fuse holders prioritize safety and convenience. Equipped with screw clamp technology, they provide secure connections for reliable short-circuit and overload protection of industrial devices.



MODULAR FUSE HOLDERS

Family scope

Modular fuse holders for 10 mm x 38 mm fuses



Feature :

- For 10x38 mm fuses according to IEC 60269, UL 4248-1, CSA C22-2
- Screw-clamp technology
- 1, 2, 3 poles and neutral modular closed design
- 1 pole + neutral version in only 18 mm spacing
- Stackable thanks to the assembly kit
- Compact design for space-saving, easy access to the fuse, finger safe,.
- Flame retardant body as per UL 94 V0
- IP 20 and sealable in the closed position
- Blown fuse indicator **1** (110 V to 725 V AC-DC), available on 1,2 or 3 poles versions

Application:

- mainly European market
- Electrical cabinet builder in industry & Automation control
- Battery energy storage systems (BESS)
- Electrical vehicle infrastructures (EVI)
- Outdoor lighting
- Motion & Drives
- HVAC & Machinery

Modular fuse holders for photovoltaic applications



Feature :

- High voltage rating :
 - 1000VDC for 10x38 mm photovoltaic fuses according to IEC 60269, UL 4248-1, CSA C22-2
 - 1500VDC for 10x85mm photovoltaic fuses according to IEC 60629-1 and 2
- Screw-clamp technology
- 1 pole with or without fusion indicator
- 10x38 mm model are stackable thanks to the assembly kit
- Compact design for space-saving, easy access to the fuse, finger safe,.
- Flame retardant body as per UL 94 V0
- IP 20 and sealable in the closed position
- Blown fuse indicator **1** for 10x38 mm version (400 V to 1000 V DC)

Application:

- Solar inverter panels
- Solar combiner boxes

Modular fuse holders for Class CC fuses



Feature :

- For Class CC fuses according to UL 4248-4 and CSA C22-2
- Screw-clamp technology
- 1, 2, 3 poles
- Stackable thanks to the assembly kit
- Compact design for space-saving, easy access to the fuse, finger safe,.
- Flame retardant body as per UL 94 V0
- IP 20 and sealable in the closed position
- Blown fuse indicator **1** (110 V to 600 V AC-DC), available on 1,2 or 3 poles versions

Application:

- mainly North American market
- Electrical cabinet builder in industry & automation control
- Battery energy storage systems (BESS)
- Electrical vehicle infrastructures (EVI)
- Outdoor lighting
- Motion & Drives
- HVAC & Machinery

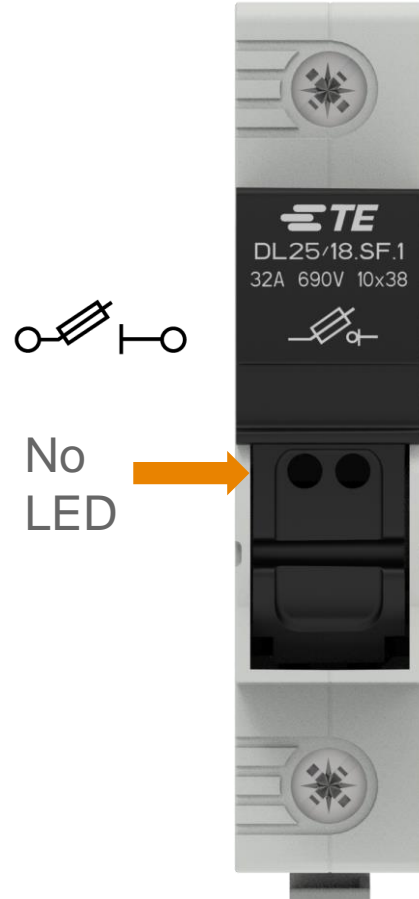
MODULAR FUSE HOLDERS

Models

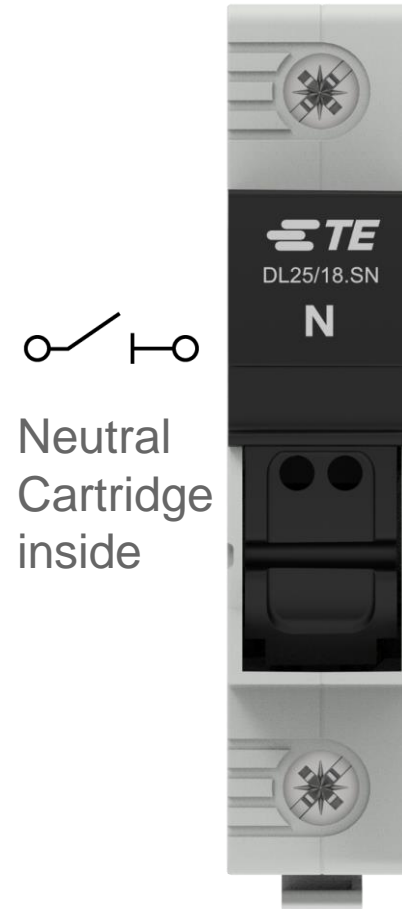
With Fuse Indicator



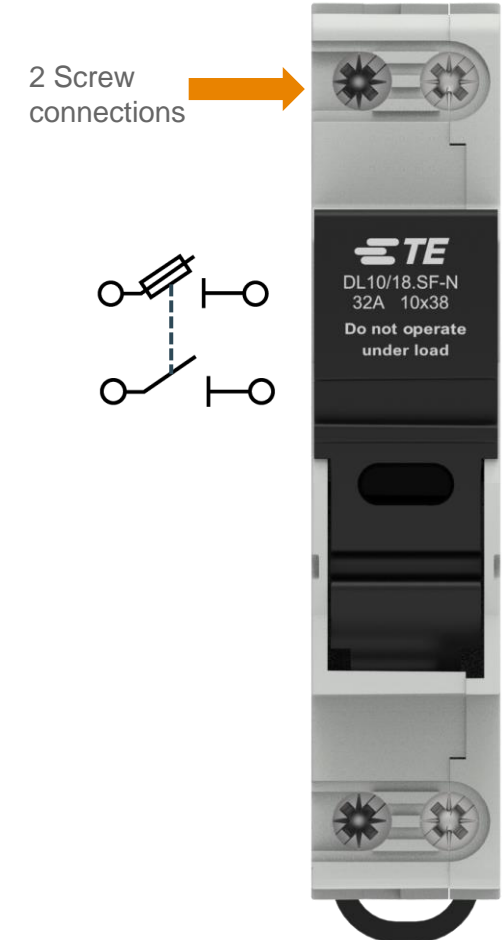
Without Fuse Indicator



N Pole



Compact 1PH + 1N



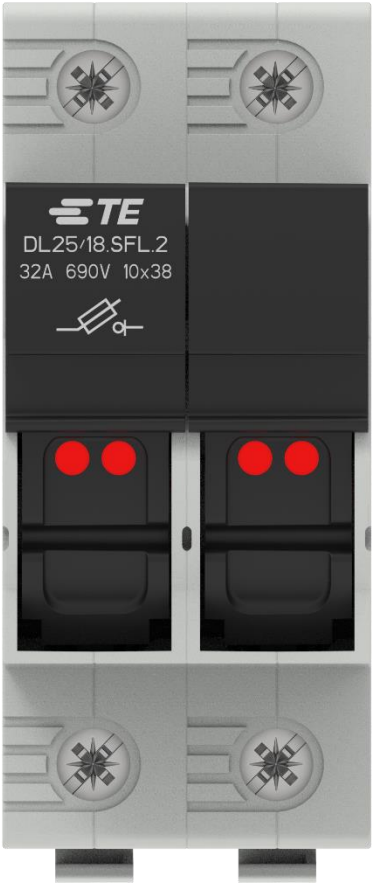
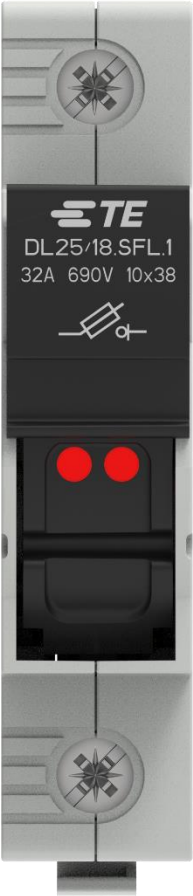
MODULAR FUSE HOLDERS

Design

Unipolar

Bipolar

Tripolar



MODULAR FUSE HOLDERS

Value propositions

SPACE EFFICIENT



Modular design :

- Modular closed design meet the standards of the industry
- Suitable for installation in boxes

Single to multiple poles:

- Pre-configured multipole versions

Compact design:

- One of the highest cross section of the market (25 mm²) in only 18 mm spacing.
- Up to 32 A circuit protection in only 18 mm spacing and reduced height.
- 1 PH+N version in only 18 mm space
- Easily stackable side by side, virtually no space loss.

EASY TO INSTALL



Easy mounting & handling :

- Fuse changing with the flick of a finger
- DIN rail mounting.
- Multi-pole assembly kit available for field assembling.

Easy maintenance:

- Optional blown fuse indicator allows quick identification of faulty circuits.
- Technical specifications available on the side of the products.

OPERATOR SAFETY



Finger safe:

- IP20 protection degree.
- Modular and closed design.

Installation safety:

- Sealable in closed position.
- Flame retardant plastic.

MODULAR FUSE HOLDERS

Application Example: 10x38 mm fuse switch disconnecter

Application example

One pole + one neutral

This family is designed to fulfill OEMs and panel builders tough requirements. They find application in **industrial automation switchboards and cabinets** to protect sub-circuits, transformers, primary and secondary circuits, motors and other resistive or inductive loads. Thanks to **IEC 60947-3 AC-22B** utilization category, the fuse disconnecter is a convenient, simple and reliable device for load **switching and protection**.

Here is shown a typical application in OEM segment. According to IEC 60364-1, secondary winding of command transformer shall be **protected against short circuit and overload**. Transformer provides 230V a.c. dedicated power supply to a **battery of contactors**.



Application example

Three poles

This family is designed for **fine protection of electric devices** in single phase and three phase networks with neutral. They find application in **distribution switchboards, cabinets and consumer units** to protect

lighting circuits

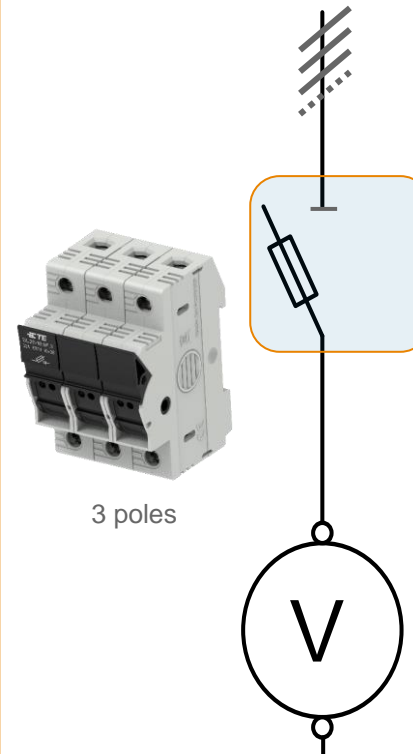
electric devices and appliances

protection and monitoring devices

measuring instruments

signalling devices and socket outlets

Here is shown a typical application in a secondary distribution board. Following the manufacturer's instructions, the voltmeter inputs of the multifunction meter – three phases plus neutral – shall be protected by fuses.



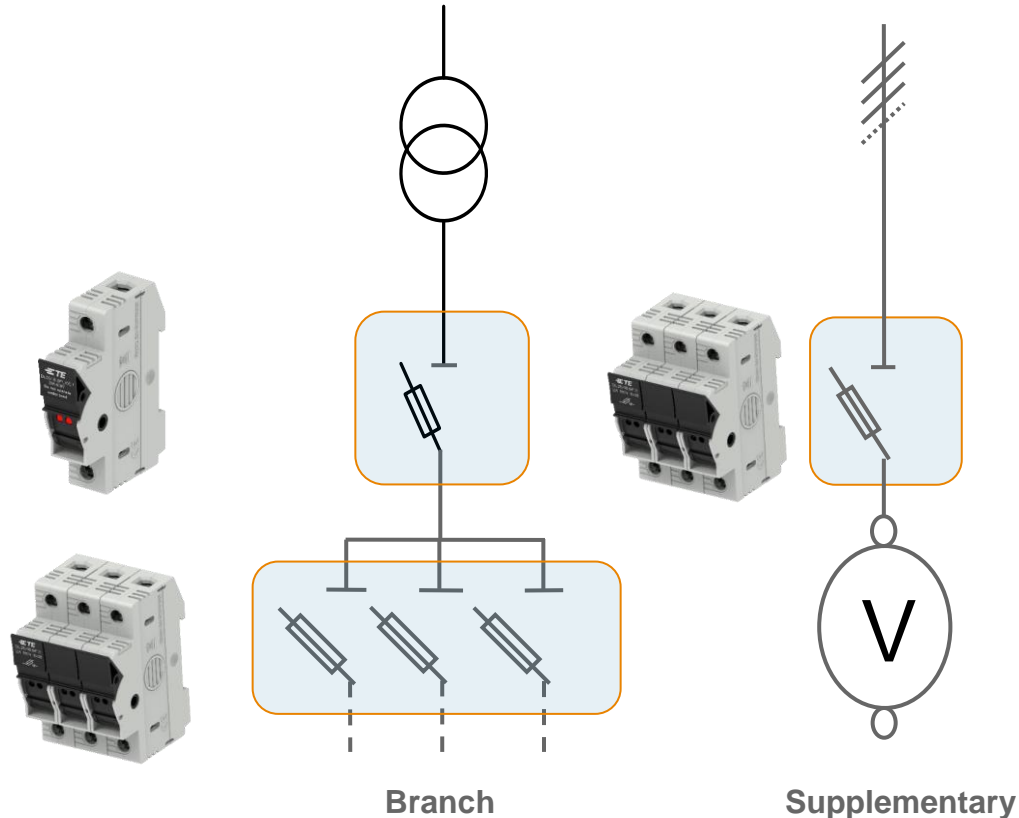
Application with the IEC/FR STANDARD - UL/CSA STANDARD

Product for industry in the power distribution and motor control

Industrial control panel builder in the protection of electric street lighting with fuse located in the post

MODULAR FUSE HOLDERS

Application example: CC fuseholders



Application example;

One, two or three poles

UL 4248-1 distinguishes two kinds of protection:

Branch protection: protection of circuits, cables and devices. It can be done by high limiting devices installed upstream on the circuit to be protected

Supplementary protection: further protection of the instrumentation inside the switchboard

- Measurement devices
- Signaling devices
- Surge protection devices, time switches

Applications:

Lighting feeders and control circuits

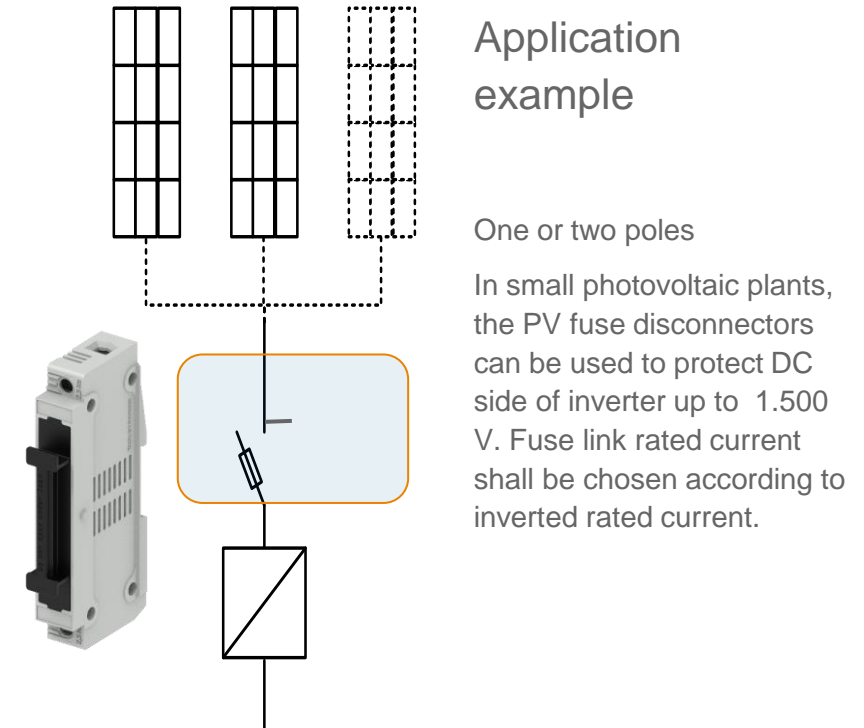
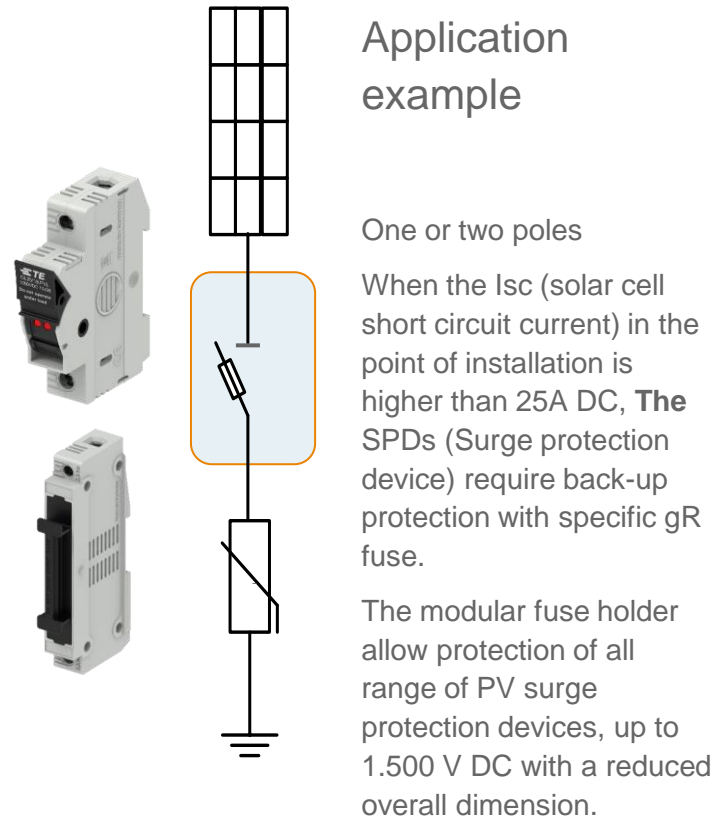
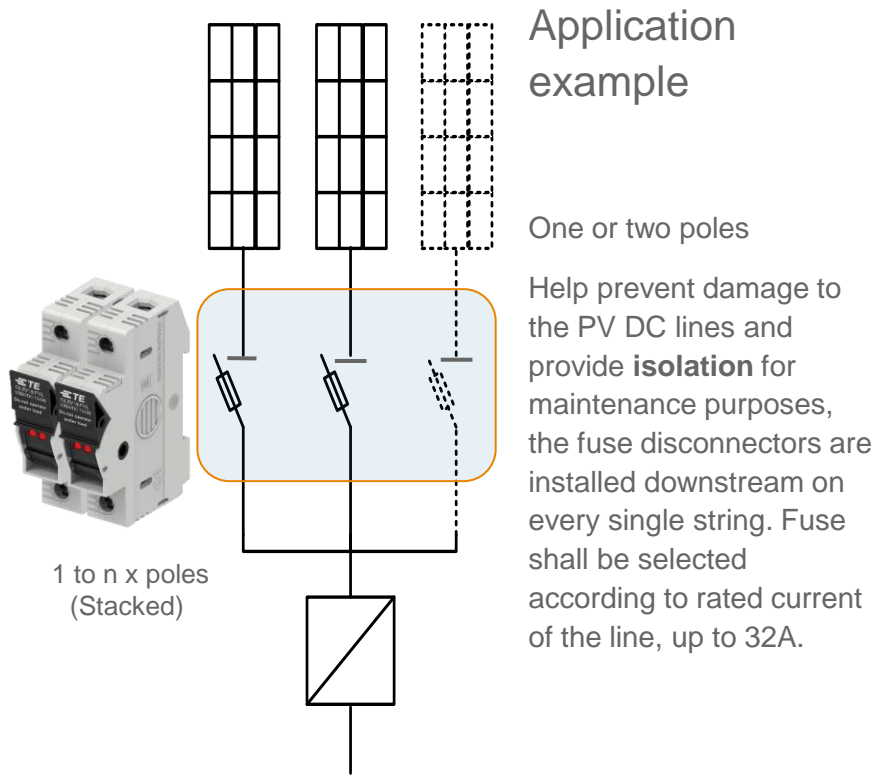
Small motor and transformers

Wires and cables

Application with the CC STANDARD for NAM Region
 Product for industry in the power distribution and motor control
 Industrial control panel builder in the protection of electric circuits

MODULAR FUSE HOLDERS

Application Example: PV fuse disconnectors



Application with the UL/CSA STANDARD

Product for solar in the combiner box at string and array level, residential et building application until 1500VDC

Version 10x38mm for 1000VDC application

Version 10x85mm for 1500VDC application

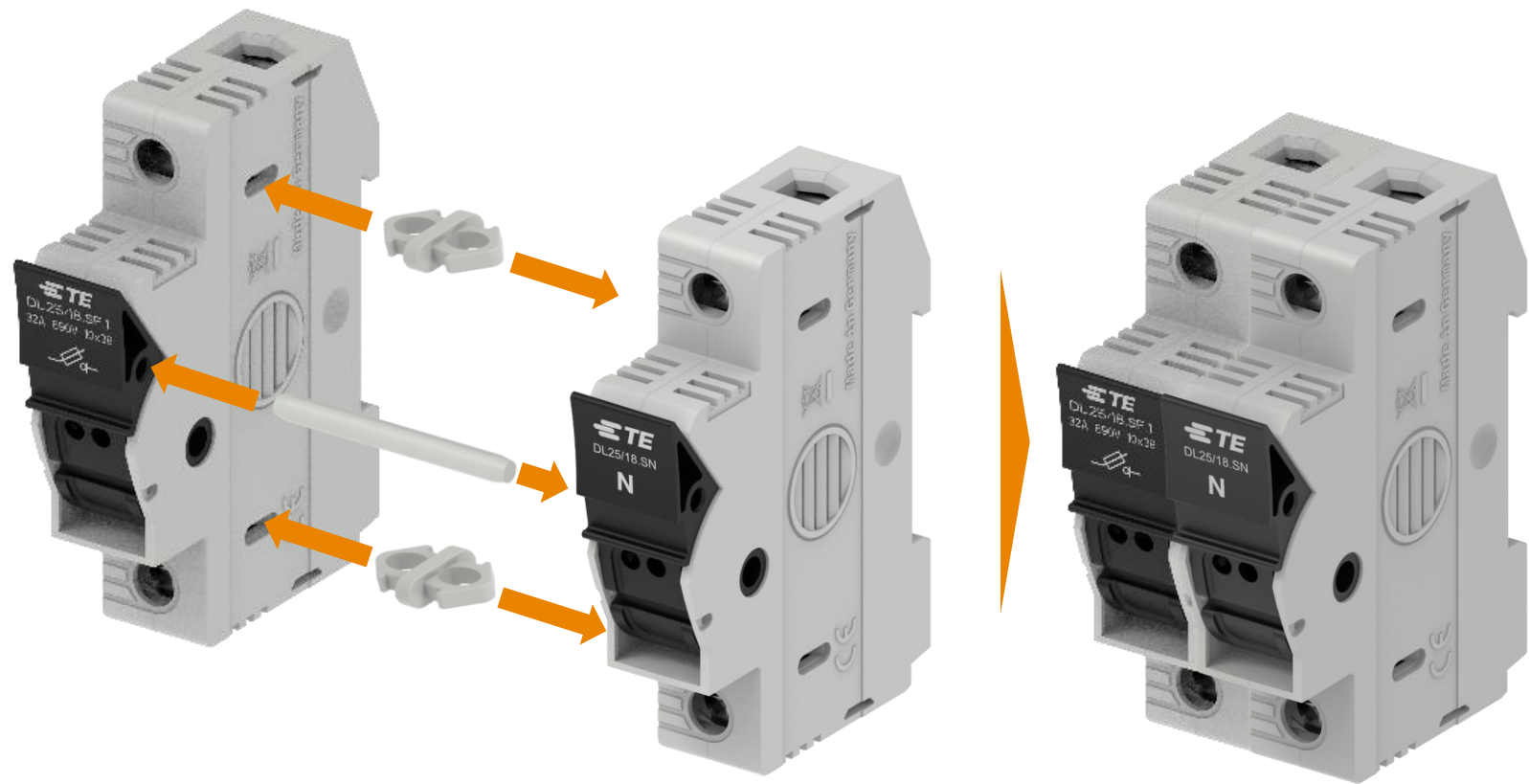
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Stack function



Multi-Pole Assembly Kit for :

- 2 poles (VR-DL-2)
- 3 poles (VR-DL-3)
- 10 kits per packing



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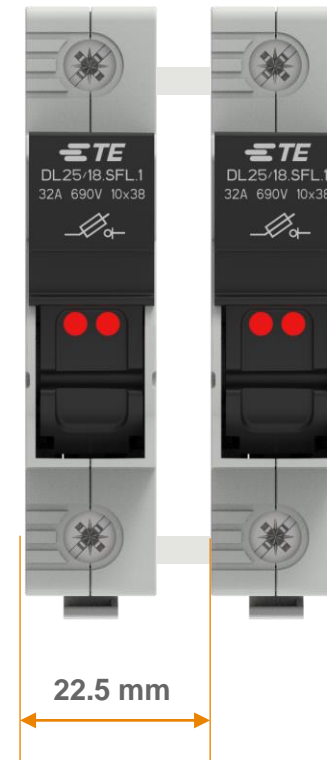
Spacer function : allow to obtain popular 22.5 mm pitch

Needed when products are used for replacement in existing installation with a former product having a 22.5 mm spacing. (wide spread pitch).



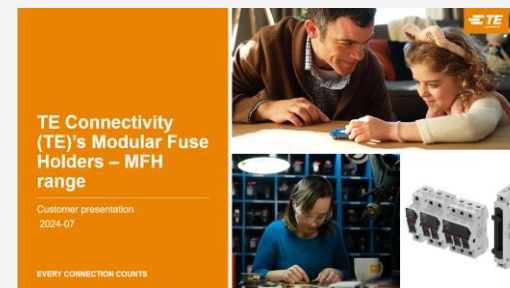
4.5 mm spacer (CR-DL-4.5)

- 50 kits per packing



Media

LinkedIn Social Media Posts



**ANY
CONNECTION
CAN CHANGE
THE WORLD**

EVERY CONNECTION COUNTS

