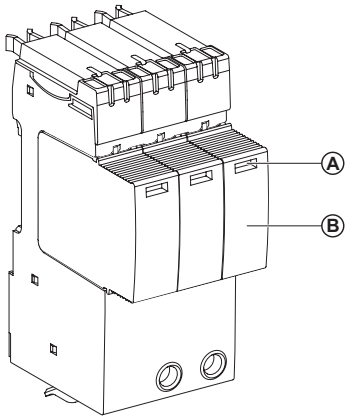
Acti9 iKQ iPRD F40r Surge Protective Device (SPD) - Type 2+3 - Imax = 40kA - SEL8F4••

Commercial Reference	Type
SEL8F450 SEL8F460	TT
	TN-S
	TN-C-S

PLEASE NOTE
- The installation, maintenance and eventual replacement of this device must only be carried out by a qualified electrician.
- This device must not be repaired.
- All applicable local, regional and national regulations must be complied during the installation, use, maintenance and replacement of this device.
- This device should not be installed if, when unpacking it, you observe that is damaged.
- Schneider Electric cannot be held responsible in the event of non-compliance with the instructions in this document and in the documents to which it refers.
- The service instruction must be observed throughout the product life time of this device.

1 Description



-40 °C ... +85 °C
5 % ... 95 % RH
IEC 61643-11:2011
BS EN 61643-11:2012+A11:2018

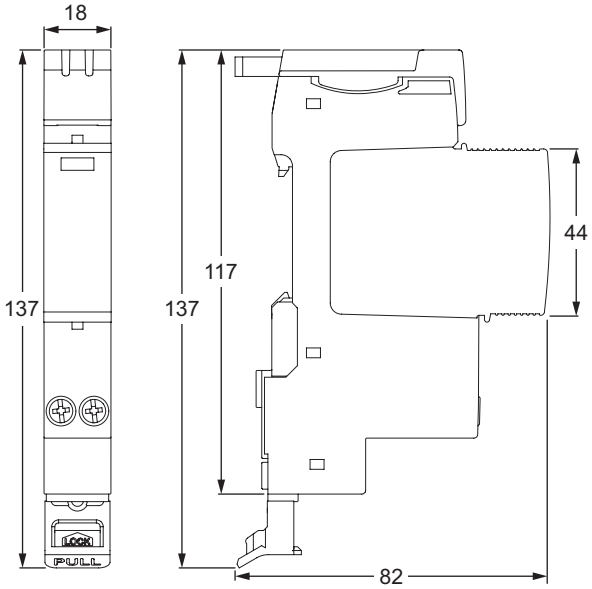
IP20 (device wired)
Ue = 230 V~ ±10 % - 50/60 Hz
I_{PE} ≤ 5 µA
I_{SCCR} = 25 kA
I_{fi} = 100 A_{RMS} (N-PE)
I_n / I_{max} (8/20) = 20 kA / 40 kA (L-N) 40 kA / 65 kA (N-PE)
Number of ports = 1
Minimum distance from any conductive surface: 0 mm
Backup fuse integrated technology

A Cartridge status indicator
B Withdrawable cartridge

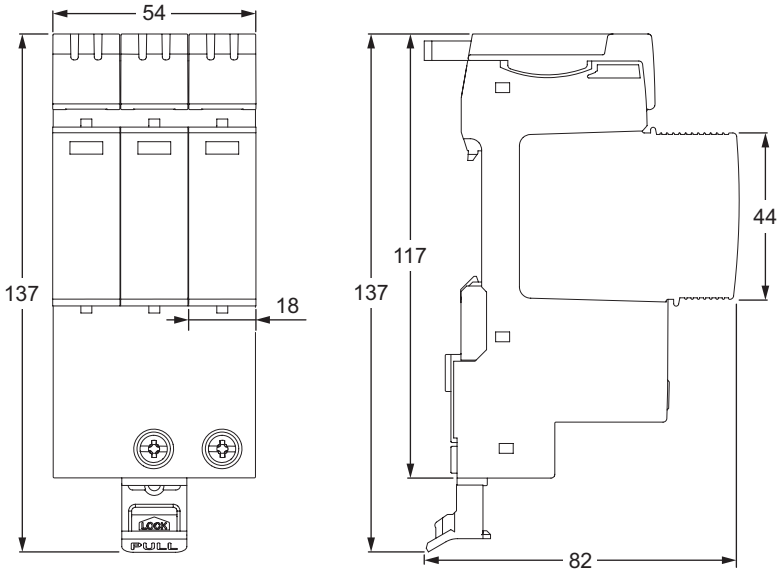
2 Dimension

mm

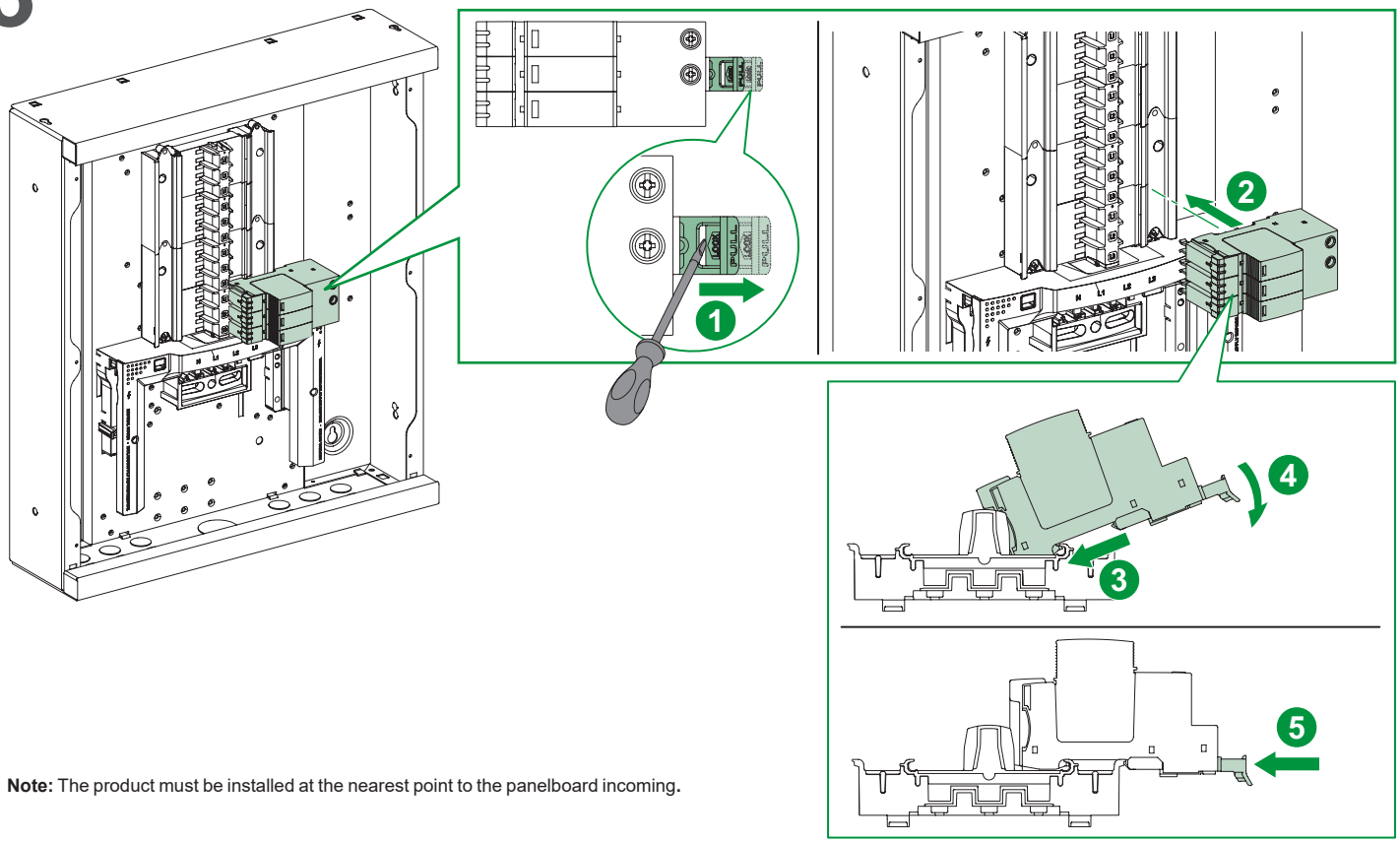
1P



3P

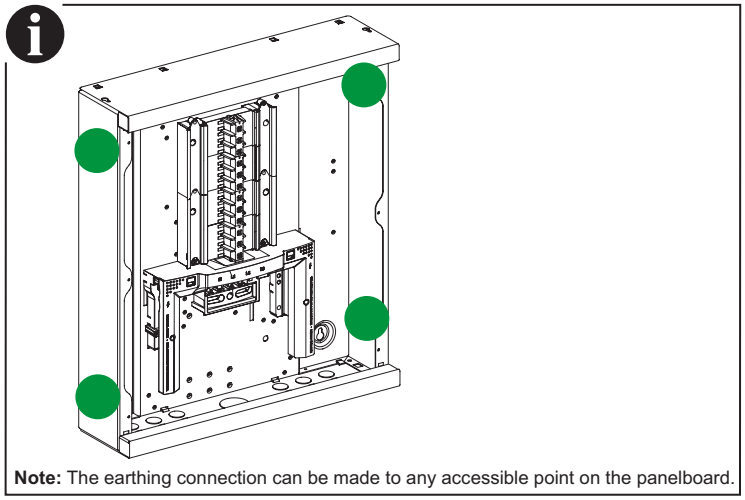


3 Installation

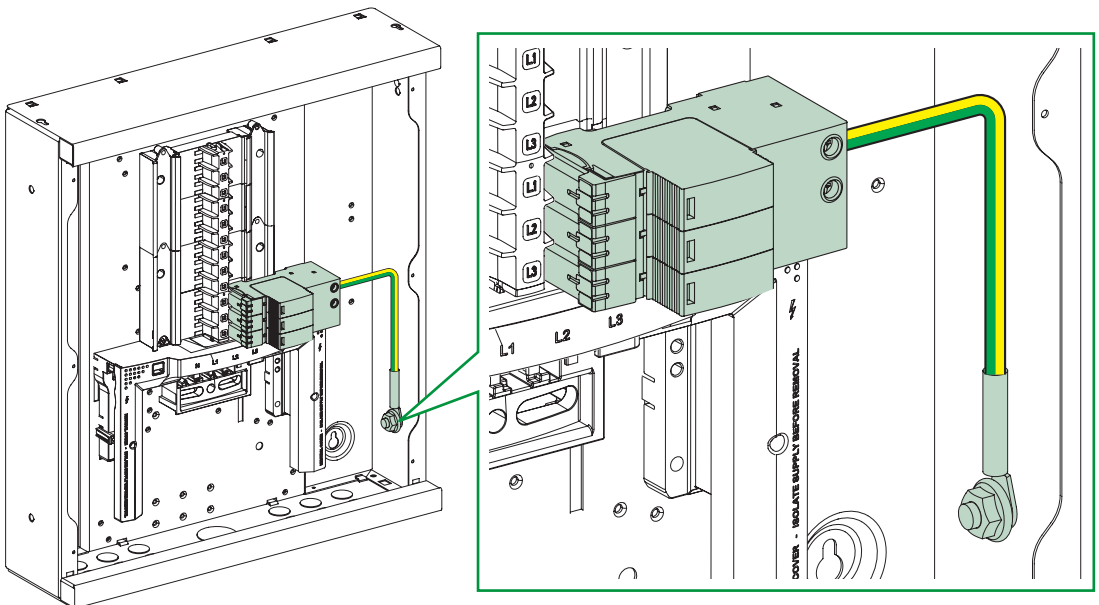


Note: The product must be installed at the nearest point to the panelboard incoming.

4 Earthing Connection



Note: The earthing connection can be made to any accessible point on the panelboard.



Note: The length of the earthing cable must be less than 50 cm.

5 Connection

⚠⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH
- Turn off all power supply to this device before working on it.
- Use a voltage tester with a suitable voltage rating to verify that all active conductors are not energized.

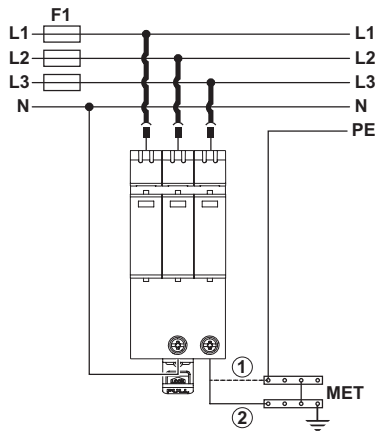
Failure to follow these instructions will result in death or serious injury.

⚠ WARNING

HAZARD OF FIRE
- Connecting leads must be kept as short as possible, without loops and must not exceed a total length of 0.5 m per SPD, according to IEC 60364-5-53.
- If F1 ≥ 63 A gG, then the integrated backup fuse operates before F1.

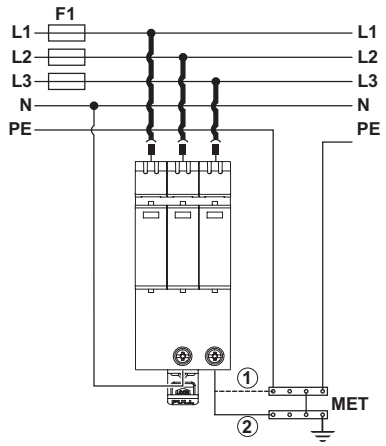
Failure to follow these instructions can result in death, serious injury, or equipment damage.

TT system



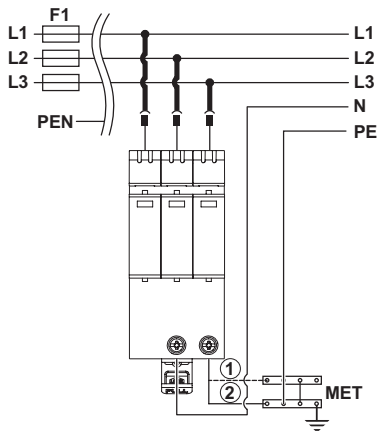
When ② > 0.5 m, add a connection ① to keep ① < 0.5 m.

TN-S system



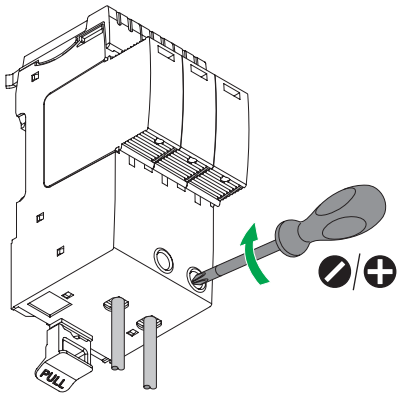
When ② > 0.5 m, add a connection ① to keep ① < 0.5 m.

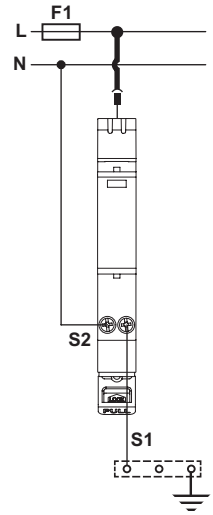
TN-C-S system



When ② > 0.5 m, add a connection ① to keep ① < 0.5 m.

N = Neutral conductor
L/L1/L2/L3 = Line conductor
F1 = Upstream protection
S1 = Earth conductor
PE = Protective earth conductor
PEN = Protective earth and neutral conductor
MET = Main earthing terminal





Protection against short circuit	I_{SCCR} = 25 kA

Conductor dimensioning	
S2	S1
6 mm² (*)	min 6 mm²

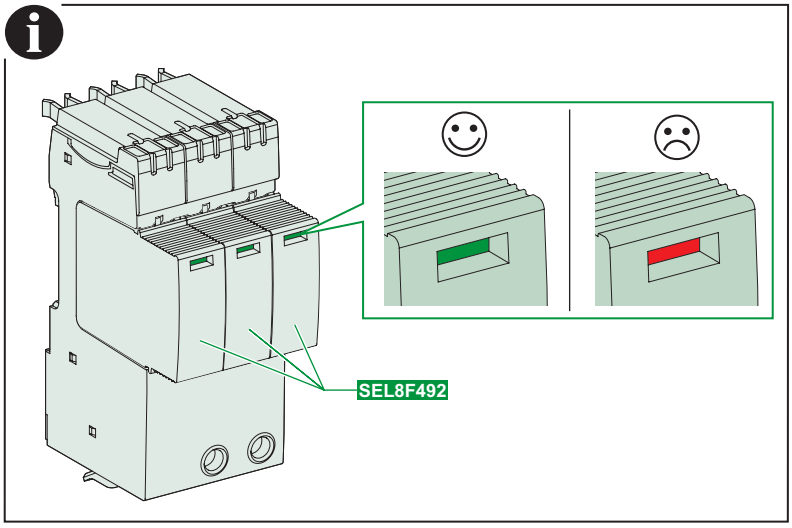
(*) The installation of all live conductors is required to be short-circuit and earth-fault proof.

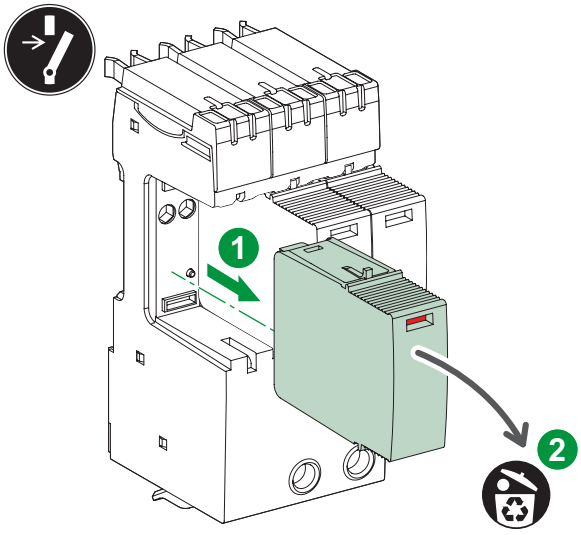
						C	⊖	⊕
S1/S2	N/PE (1PN)	14 mm	14 mm	6...16 mm²	6...10 mm²	2 N.m	6.5 mm	PH2
	N/PE (3PN)			2.5...25 mm²	2.5...16 mm²	3.5 N.m		

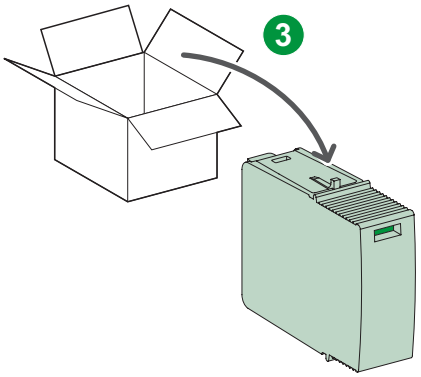
6 Replacing Cartridges

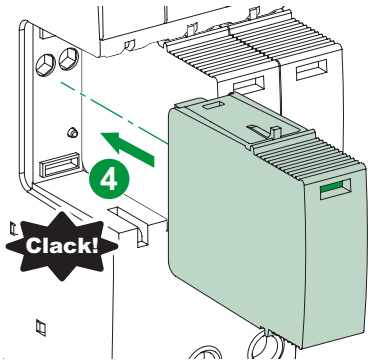
⚠ WARNING

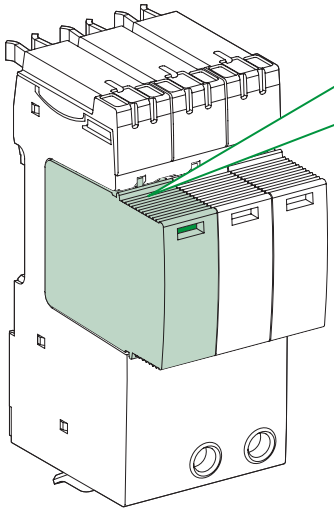
RISK OF DAMAGE TO THE DEVICE AND DETERIORATION OF PROTECTION LEVEL
Schneider Electric cannot be held responsible if cartridges other than those recommended by Schneider Electric are used.
Failure to follow these instructions can result in death, serious injury, or equipment damage and deterioration of protection level.

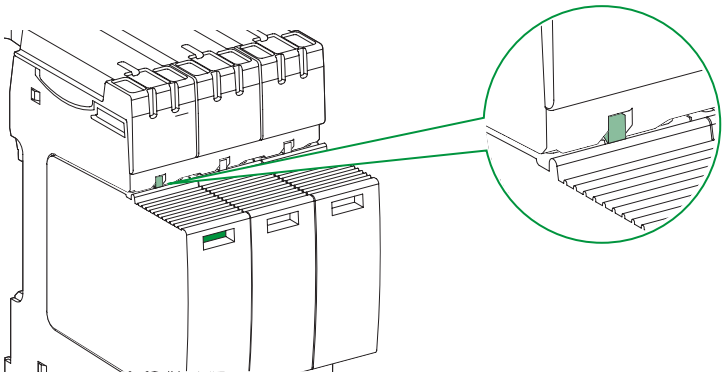












Note: Ensure the cartridge is fully inserted into the SPD base.

Schneider Electric Industries SAS
35 rue Joseph Monier
92500 Rueil-Malmaison
France
www.se.com

		
EN Electrical hazard	Installation by qualified electricians only	Disconnect before installation