
FAQ

General features, characteristics, and technical details for SMISLINE TP

Questions and answers

TECHNICAL QUESTIONS

Can the SMISLINE system be placed vertical or horizontal or both?

Both is possible, from the technical point of view it is both possible. With a vertical layout we believe the space saving is better. There are special vertical mounting kits in ABB enclosures for SMISLINE.

Is the end piece included in the starter pack able to snap onto the assembled main socket + additional socket?

Yes, the end piece has a breakout part and it should close the additional socket.

When the additional sockets are directly mounted onto the main socket, the assembled socket could be mounted onto the wall with only one DIN-rail?

Yes, the additional socket is supported from the main socket. The din-rail will stand both.

Is there a busbar cover available onto additional sockets?

Yes, for the additional base you will find the base and the cover, it is included (IP20).

PRODUCT-RELATED QUESTIONS

What is the difference between S402M and S401M-NP?

S402 is for both poles L1, or L2, or L3

S401 NP is for one pole L1 or L2 or L3 and the second pole is fix on N

For the latest catalogue:

<http://docs.it.abb.com/sites/atap18/PMHome3118/DinRail/Marketing%20Tools/SMISSLINE%20plug-in%20system/Catalogue/2CCC451071C0201.pdf>

For the S400M, how do we ensure that the neutral conductor is not opened before the outer conductor? The two poles are mechanically coupled?

The standard does not require the N to switch off advantageously and to switch on in a hurry. Therefore, there will be no damage to the equipment. And our N pole is thermally and magnetically protected.

Here is the extract IEC 60898:2019:

8.1.2 Mechanism

The moving contacts of all poles of multipole circuit-breakers shall be so mechanically coupled that all poles, except the switched neutral, if any, make and break substantially together, whether operated manually or automatically, even if an overload occurs on one protected pole only.

The switched neutral pole (see 3.2.7.3) of four-pole circuit-breakers shall not close after and shall not open before the protected poles. (...)

If a pole having an appropriate short-circuit making and breaking capacity is used as a neutral pole and the circuit-breaker has an independent manual operation (see 3.4.4), then all poles, including the neutral pole, may operate substantially together.

For the S400M, is the neutral conductor early closing and late opening?

No, this is never the case with an MCB. The poles are coupled and switch simultaneously.

For the S400M, the neutral conductor is not protected against overload?

If it says protected poles 1 then yes, the N is not protected against overload. If protected 2nd pole is desired the 2-pole version could be selected.

What seismic tests do the current ZLS924 feed pedestals have? Only the vibration resistance?

The data are as follows for the plug-in base system including ZLS924.

- For vibration the SMISLINE system and the devices according to IEC 60068-2-6 (2-13.2 Hz/1 mm, 13.2-100 Hz/0.7 g) and the circuit breaker S400 (5 g, 20 frequency cycles 5 ...150 ... 5 Hz at 0.8 times rated current). Standard: IEC 60068-2-6

Environmental tests - Part 2-6: Test Fc. Vibration (sinusoidal)

- The SMISLINE system and components are tested for vibration according to IEC 60068-2-6 (2-13.2 Hz/1 mm displacement, 13.2-100 Hz/0.7 g) and for Miniature circuit breakers (5 g, 20 frequency cycles 5 ...150 ... 5 Hz at 0.8 rated current). Standard: IEC 60068-2-6

Environmental testing - Part 2-6: Test Fc. Vibration (sinusoidal)

There is also an English catalog with these data. The DE CH catalog will be revised with this data.

For the connection cross section is it possible to have an overvoltage conductor of 50mm²?

We have only up to 35mm². 50 mm² is not possible

What is the maximum wire size and number of cables permissible to use on the Smisline TP ZLS924-3LN?

The maximum wire size and number of cables permissible to use on ZLS924 is 6mm²-50mm², 2x25mm² 3LN, 10mm² LA, LB. As stated in the catalogue.

For direct connect the ZLSP960-3L-32-L to the XT4, which accessories we need to use combined with ZLSP960-3L-32-L? And the same situation for: the ZLSP960-3LN-32-R with ZLSP960-3LN-32-R?

If you order one of the direct feed part number everything is included. So, you do not need to add any other parts for the connection to the XT4. In the case there are many MCBs on the busbar system, it may make sense to add the heat sink to reduce the heat:

Heatsink 3L ZLSP960HS-3L 2CCG000736R0001 151 2446 1 197

Heatsink 3LN ZLSP960HS-3LN 2CCG000739R0001 151 2453 1 262

The depth of XT4 and Smisline is different so when we mounted them together the toggles will be not the same alignment. So we do have any kits to adjust them to be the same level. Don't we? OR the panel builder has to cut the cover plate into 2 parts – Upper for XT4 and lower for Smisline

XT4 UL works, but you need the plug-in base. It has nothing to do with the heat sink.

Does the FS400 fulfil the NF C 18-510 standard?

EN/IEC61009-1 fulfil the same disconnection requirements. So FS400 fulfil the NF C 18-510 standards as well, no problem for FS400 in France.

What is the best configuration of additional sockets for the starter pack ZLS905E72-3L?

The best configuration would be 9x ZLS928 (ZLS905E72-3L is made of 9x 8 module sockets).

Certifications & Documents

Where can I find certificates, declarations, approvals and related documents for SMISSLINE TP?

You can find the certificates, approvals, environmental and compliance declarations, and related documents in the ABB Download Center or directly on the product page within the download area.

Available documents for SMISSLINE TP can be found [here](#).

Available documents for SMISSLINE TP accessories can be found [here](#).

Any other declaration, certificate, or document not available in the previous link is released only upon request.