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Switchboards for Photovoltaics

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SET: Switchboard R-DC2T2 + 2x Arrester DC-2

R-DC1T1-Rev01

PROMOTION: Get the R-DC2T2 switchboard in a convenient set with two DC-2 arresters! DC switchboard designed for wall mounting, IP40/20 serving as an input switchboard from photovoltaic panels (to the inverter) for the entire portfolio of photovoltaic power plants. Especially when using other switchb...

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PRODUCT DESCRIPTION

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DC switchboard designed for wall mounting, IP40/20 serving as an input switchboard from photovoltaic panels (to the inverter) for the entire portfolio of photovoltaic power plants. Especially when using other switchboards, also EATON BC-O-1/12-ECO. Its advantage is its small size, the ability to "stack" with other AC switchboards next to each other or under each other, which makes it possible to install it even in areas where space is a problem. The switchboard is equipped with a DC surge arrester and fuse disconnectors including gPV fuses for securing the DC input to the inverter. Suitable for combining with switchboards for the AC part of the installation with those installed in EATON BC-O-1/12-ECO switchboards.

Due to the regulatory obligation to place class 1 surge arresters near the downfall of string wires into the building, we are introducing a new model line of SPD units for mounting on the supporting structure of the photovoltaic panels themselves.

The actual construction, taking into account weather conditions and the method of assembly, is made of aluminum alloy (the same material as the supporting profiles of PV panels - there is no risk of electrochemical corrosion) with hermetically sealed internal circuits in polyurethane material with an inert filler that suppresses combustion.

The unit is designed as a through-type unit for easy implementation into a string - both poles of the string are connected to the unit and both of them also exit. The connection is made with classic MC4 connectors (with integrated fuse at the input) and wires with a cross-section of 6 mm^2 (in some versions even 10 mm^2) with double insulation and color separation.

The PE conductor connection or connection to LPS elements is solved on the box chassis itself using an M10 (M8) screw through a pressed-in eye on a stranded conductor >16 mm^2 or directly via a T-bolt connecting to the supporting structure/LPS downpipe, or in combination.

The SPD unit itself is of class T1 + T2, which means that due to the above-standard leakage resistance (12/25 kA), it can also be applied to centers with less than 4 down conductors (according to ČSN EN 51643-32).

Due to the specific design and location, it is necessary to measure the residual current at the maximum operating voltage after each interruption of the integrated fuse (due to the action of the SPD).

If the value is higher than the maximum value specified by the manufacturer, the entire SPD module must be replaced. An indication of a blown fuse is the absence of voltage on the string circuit after the SPD module.