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Designed and Manufactured in the EU



Switchboards for
Photovoltaics



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Systems



Charging Stations for
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Monitoring Systems

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Switchgear R-FVE-D1



R-N3-AP-20

AC switchboard designed for wall mounting, IP65, used to operate a three-phase photovoltaic power plant (typically a GoodWe 4 to 10K-ET inverter). Its advantage is the automatic switching between standard operation from the grid and backup. It is necessary to control the load during a power outage t...

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PRODUCT DESCRIPTION

AC switchboard designed for wall mounting, IP65, used to operate a three-phase photovoltaic power plant (typically a GoodWe 4 to 10K-ET inverter).

Its advantage is the automatic switching between standard operation from the grid and backup. It is necessary to control the load during a power outage to avoid overload, because its function switches the entire house to the inverter backup.

The undisputed advantage is the minimal intervention in the customer's switchboard - Smartmeter (inverter measurement) common breakdown point and all fuses are part of this switchboard. So it is enough to make a loop between the main switchboard and the location of the technology. The switchboard also has a crisis disconnection of the inverter HDO (N0%) **The R-FVE-D1 switchboard is designed for the main circuit breaker in the column to the B40/3 circuit breaker .**

Note: Smartmeter is not part of the AZ TRADERS sro delivery. If the customer supplies Smartmeters, we are able to install them in the switchboards.

There is a slight time delay when switching (contactor switching) - so it is not a fail-safe backup solution.

LIST OF MAIN COMPONENTS:

EATON IKA-3/54-ST switchboard, EATON SPBT12-280/4 class T1+T2 surge arrester, EATON IS40/3 main switch, preparation for boiler protection – EATON PL6-B16/3, protection of the inverter and backup circuits 2x EATON PL6-B20/3, contactor including ELKO HRN-55 monitoring relay and EATON Z-SCH230/40-40 contactor, protection for measurement and control, EATON PL6 circuit breakers and 2 contactors for autonomous switching of the object to backup Z-SCH230/25 + relay for controlling the emergency HDO.

In combination with the R-FVE-E1 (R-FVE-E2) switchboard, where the AZ Router is also located, you can connect the switches with a prepared cable harness and have complete technology in 2 switches, including regulation for DHW.

Code	Manufacturer	Product	Description	Number of pieces
174202	EATON	IKA-3/54-ST	Switchboard ON IP65 plaster, transparent door, 3 rows, 54 modules	1
158331	EATON	SPBT12-280/4	Surge arrester class T1+T2 (B+C), 4-pole set for TN-S	1
276272	EATON	IS-40/3	Main switch, 240V, 40A, 3HP	1

Code	Manufacturer	Product	Description	Number of pieces
286518	EATON	PL6-B6/1	Circuit breaker PL6, characteristic B, 1-pole, Icn=6kA, In=6A	2
286521	EATON	PL6-B16/1	Circuit breaker PL6, characteristic B, 1-pole, Icn=6kA, In=16A	1
3722	ELKO EP	HRN-55	Monitoring voltage relay	1
40.52.8.230.0000	FINDER	2P/8A 230VAC 40.52.8.230.0000	Relay INC, INO	1
193886	EATON	Z-SCH230/1/25-11	Installation contactor, 230VAC/50Hz, 1S, 1R, 25A	1
248847	EATON	Z-SCH230/25-40	Installation contactor, 230VAC/50Hz, 4S, 25A	2
248852	EATON	Z-SCH-230/40-40	Installation contactor, 230VAC/50Hz, 4S, 40A	1
286586	EATON	PL6-B6/3	Circuit breaker PL6, characteristic B, 3-pole, Icn=6kA, In=6A	1
286589	EATON	PL6-B16/3	Circuit breaker PL6, characteristic B, 3-pole, Icn=6kA, In=16A	1
286516	EATON	PL6-B2/1	Circuit breaker PL6, characteristic B, 1-pole, Icn=6kA, In=2A	1
286590	EATON	PL6-B20/3	Circuit breaker PL6, characteristic B, 3-pole, Icn=6kA, In=20A	2