data

PCE MERZ switch to Quality!

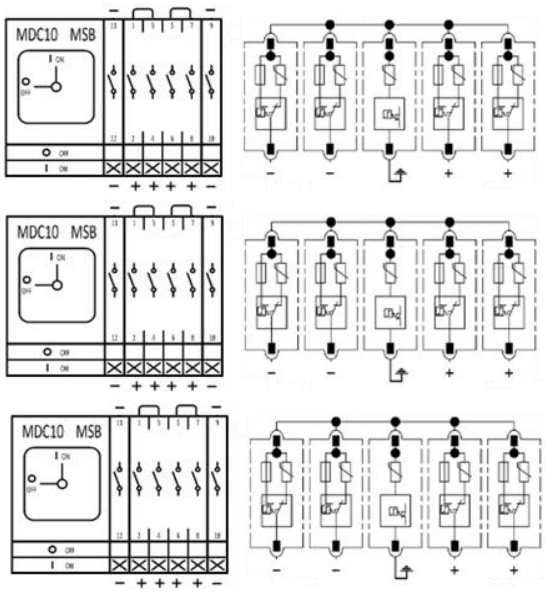
Technical datasheet

Description

Part No.:	3200100037
Product Code:	**MSB-61212-16-1005-CDC-EXEL**

DC-string box with disconnect switch and surge arrester for solar inverters

Max. number of MPPTs	6 MPPT
Max. number of strings	12 incoming + 12 outgoing
Max. Voltage	1005 Vdc
Max. current per string	16 A
Max. current per MPPT	32 A (16 A per string)
Surge protection device (SPD)	surge arrester
Class	type 2
Max. PV voltage (UCPV)	1170 Vdc
Voltage protection level (UP)	≤ 4kV
Terminal cross section	1.5 - 10 mm^2
DC disconnect switch	MDC10-040-1000-62V-9121
Enclosure	polycarbonate watertight distribution box
Impact resistance	IK08
Ambient Temperature	-25°C to +40°C
Degree of protection	IP65
Standard	CE acc. IEC 61439-2



Electrical Data Series MDC10-040-1000-62 according to IEC 60947-3:

Utilization Category	DC-PV1		
Rated operational voltage U_e	[Vdc]	1000	1200
Rated operational current I_e	[Adc]	50	26

Rated short time withstand current I_{cw}	600A – 1 sec.
Rated short time making capacity I_{cm}	600A
Rated Impulse Withstand Voltage U_{imp}	8kV
Rated Insulation Voltage U_i	1200V

Terminal cross section	-	solid or stranded	min./max.	1.5 - 10 mm^2
	-	finely stranded with sleeve	min./max.	1.5 - 10 mm^2

Wiring — see page 3 electrical circuit diagram

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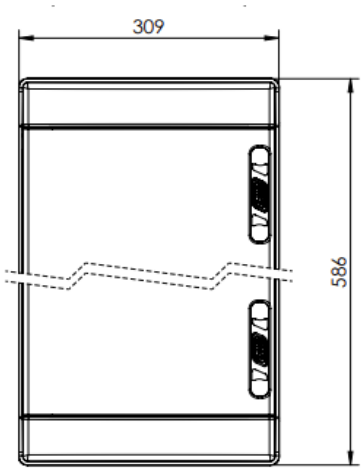
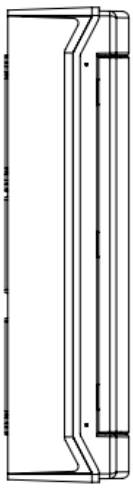
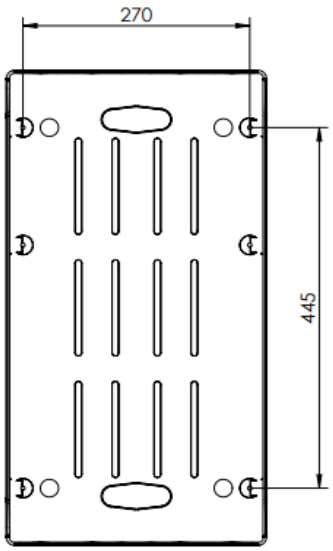
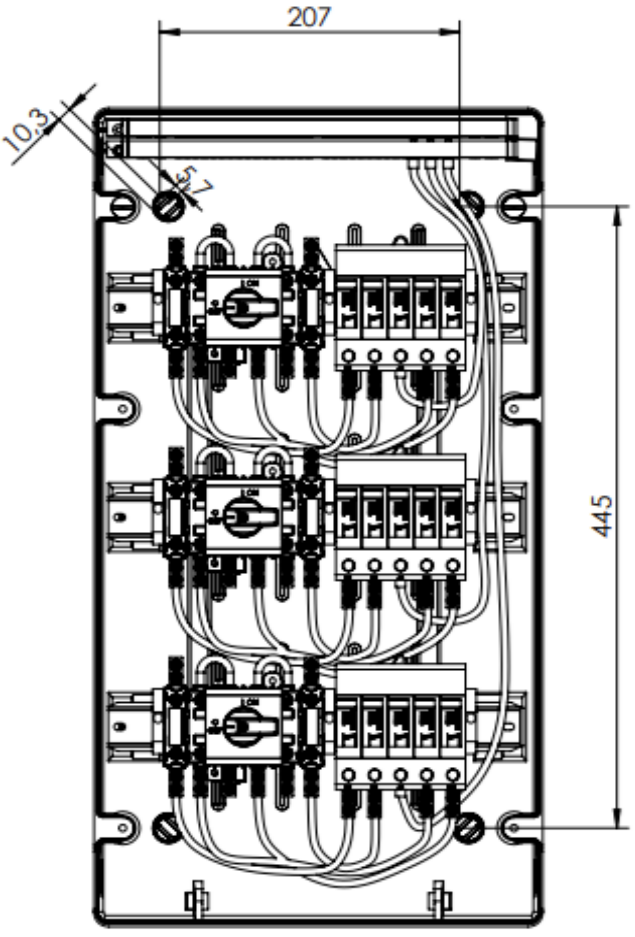
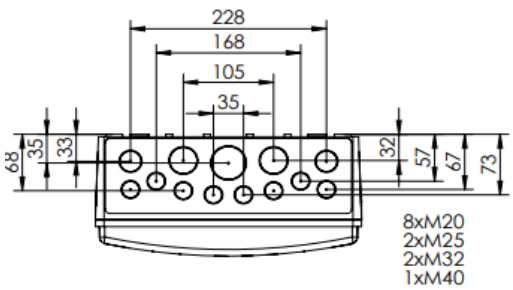








knockouts 1x upper side + 1 x lower side



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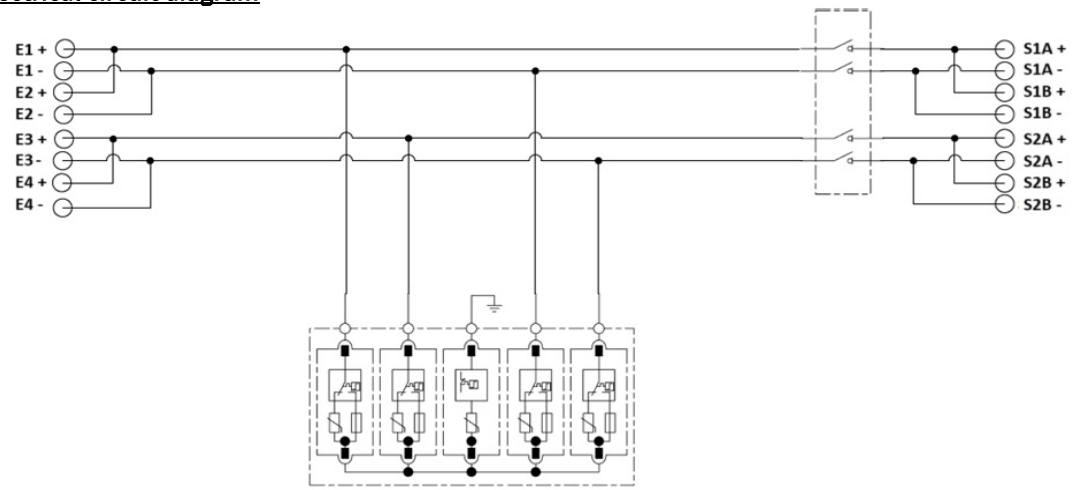
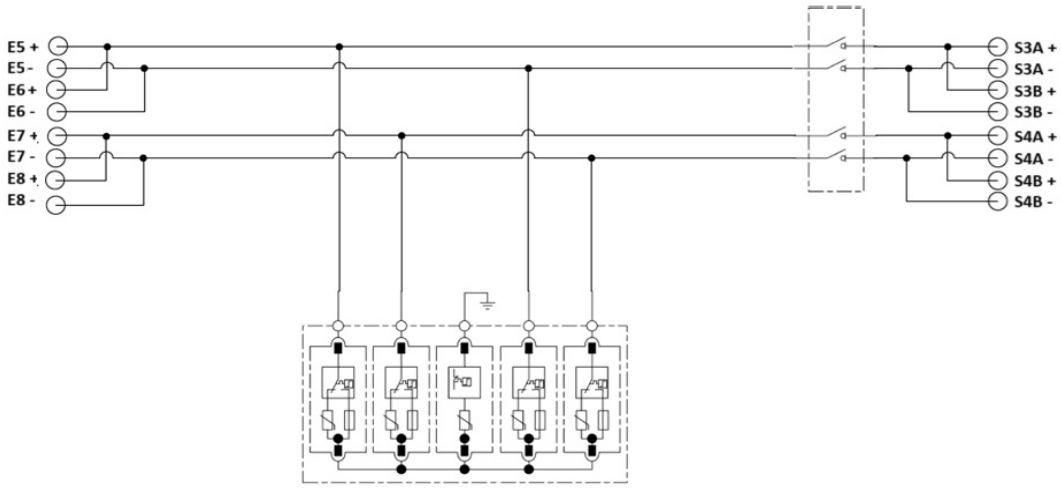
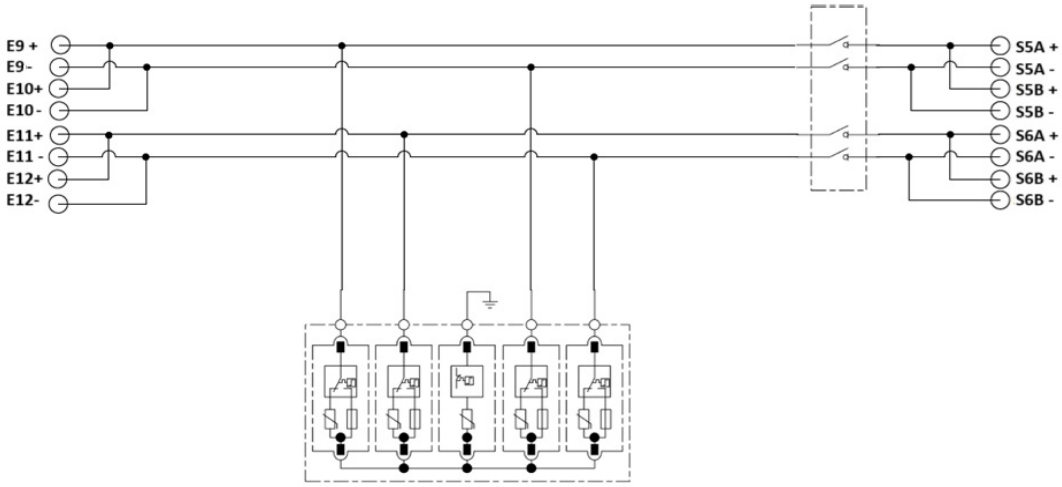
Electrical circuit diagram







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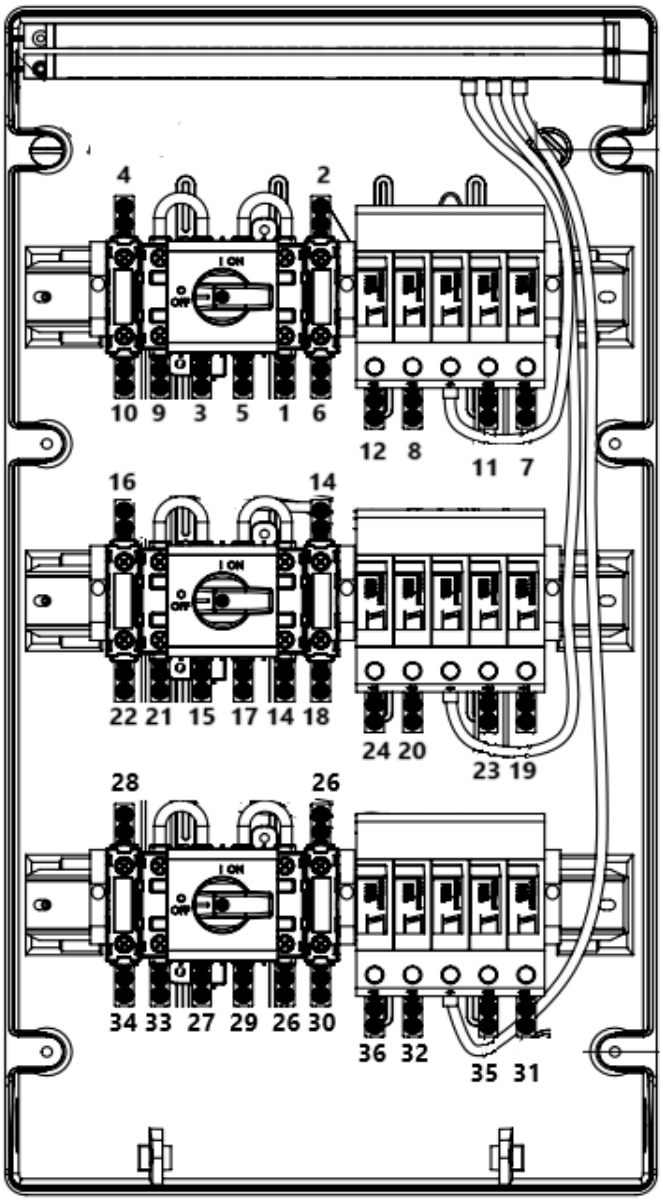

1	S1 A/B+
2	S1 A/B-
3	S2 A/B+
4	S2 A/B-
5	E1+
6	E1-
7	E2+
8	E2-
9	E3+
10	E3-
11	E4+
12	E4-
13	S3 A/B+
14	S3 A/B-
15	S4 A/B+
16	S4 A/B-
17	E5+
18	E5-
19	E6+
20	E6-
21	E7+
22	E7-
23	E8+
24	E8-
25	S5 A/B+
26	S5 A/B-
27	S6 A/B+
28	S6 A/B-
29	E9+
30	E9-
31	E10+
32	E10-
33	E11+
34	E11-
35	E12+
36	E12-

Do not modify the factory pre-wiring
Connect the wires to the multiple terminals with a tightening torque of 0.8Nm
Check that all the multiple terminals are well tightened
Switch: 1.2 - 1.4Nm
SPD: 4.0Nm
Never exceed the current and voltage values indicated in the technical specification sheet

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