RACORD DOBROSLOVENI 2

AREA# B1 – SB1

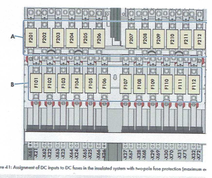


Figure 41: Assignment of DC inputs to DC fuses in the insulated system with two-pole fuse protection (maximum as

Position	Designation
A	DC fuses with negative terminal DC-
B	DC fuses with positive terminal DC+

SCB	String	Putere SCB[W]	Putere SCB[W]	UMPP[V]	IMPP[A]	FUSE[A]
SCBA-1.1	23	18,620.00	428,260.00	1072.4	399.35	500
SCBA-1.2	24	18,620.00	446,880.00	1072.4	416.71	500
SCBA-1.3	20	18,620.00	372,400.00	1072.4	347.26	500
SCBA-1.4	20	18,620.00	372,400.00	1072.4	347.26	500
SCBA-1.5	20	18,620.00	372,400.00	1072.4	347.26	500
SCBA-1.6	21	18,620.00	391,020.00	1072.4	364.82	500
SCBA-1.7	17	18,620.00	316,540.00	1072.4	295.17	500
SCBA-1.8	22	18,620.00	409,640.00	1072.4	381.98	500
SCBA-1.9	22	18,620.00	409,640.00	1072.4	381.98	500
SCBA-1.10	24	18,620.00	446,880.00	1072.4	416.71	500
SCBA-1.11	22	18,620.00	409,640.00	1072.4	381.98	500
SCBA-1.12	23	18,620.00	428,260.00	1072.4	399.35	500
Total	268		4,993,960.00			

SA1-1.1.2

String 2 (28 panouri)

SA1-1.1.1 – 28 PAN

P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14

P28 P27 P26 P25 P24 P23 P22 P21 P20 P19 P18 P17 P16 P15

MOTOR TRACKER 1.1.1

SA1-1.1.23

String 23 (28 panouri)

PVT-F 2(4x25)/10mm2) PLUSMINUS MMG(SOLAR)

SCB A-1.2 SCB A-1.3 SCB A-1.4 SCB A-1.5 SCB A-1.6 SCB A-1.7 SCB A-1.8 SCB A-1.9 SCB A-1.10 SCB A-1.11 SCB A-1.12

SCB/SIR A–1.1

SCB NUMBER (1–12)

INVERTER NUMBER (1)

SCB A-1.1

1) Input FUSE Plus and Minus Boards(Type 1500V DC-SR CYL 10 X 38 25A (8 inputs/board, 4 Boards), 64x Fuse Links
2) Monitoring block with DC-CT on Plus Board

Cutie de conexiuni

TOPSOLAR AUD 1500V 1,5(2xYYfmm2)

3) INPUT FUSE Plus and Minus Type NH DC 1500V 400A, 22x FUSE LINK NO GFDI

B =SC1 SUNNY CENTRAL 4400-UP

AC POWER 4400kVA (1x4400kW) @30°C 3960kVA (1x3960kW) @50°C 20/0.69kV KNAN (variants) DYY1 (variants) SIPS 3 (variants) 50Hz

MV CONNECTORS IN/EXPAND. C

TO TYP.M

SINGLE CORE SHIELDED MV CABLES work sheet

MS1-53

DC_PwrAREA#1 4803.96

DATA STATION METEOCONTROL X-SERIES

STATIE METEO

DPS-500_1 DPS-500_2 DPS-500_3

=SDC4 BLOCURI CONVERSIE DC/DC MAX. 500kW/UNIT OPTIONAL IN ORDER PHASE

=FOC/LIYCYY MONITORIZARE CAMP SOLAR

+MVSG MEDIUM VOLTAGE SWITCH GEAR 20kV

MV CONNECTORS IN/EXPAND. C

TO TYP.M

SINGLE CORE SHIELDED MV CABLES 90CF WIMS

MS1-53

TERMINALE DE CONECTARE DC SI ATRIBUIRE PROTECTII FUZIBILE

DC + BUSBAR

=F201 500A =F202 500A =F203 400A =F204 315A =F205 500A =F206– 500A

X210 X220 X230 X240 X250 X260

=F207 500A =F208 500A =F209 500A =F210 500A =F211 500A =F212– 500A =F212– 500A

X270 X280 X290 X300 X310 X320 X32

DC – BUSBAR

=F101 500A =F102 500A =F103 400A =F104 315A =F105 500A =F106+ 500A

X610 X620 X630 X640 X650 X660

=F107 500A =F108 500A =F109 500A =F110 500A =F111 500A =F112+ 500A =F112+ 500A

X670 X680 X690 X700 X710 X720 X726

SCBA–1.1 SCBA–1.2 SCB A–1.3 SCB A–1.4 SCB A–1.5 SCB A–1.6 SCB A–1.7 SCB A–1.8 SCB A–1.9 SCBA–1.10 SCB A–1.11 SCBA–1.12 SCBA–1.13

INPUT FUSES PLUS

INPUT FUSES MINUS

INV

STORAGE CENTRAL INVERTER 1

DC_PwrAREA#1

Data Station X-Series Outdoor

+MVSG MEDIUM VOLTAGE SWITCH GEAR 20kV

MV CONNECTORS IN/EXPAND. C

TO TYP.M

SINGLE CORE SHIELDED MV CABLES 90CF WIMS

MS1-53

TERMINALE DE CONECTARE DC SI ATRIBUIRE PROTECTII FUZIBILE

DC + BUSBAR

=F201 6.30A =F202 6.30A =F203 6.30A =F204 6.30A =F205 6.30A =F206 6.30A =F207 6.30A =F208 6.30A =F209 6.30A =F210 6.30A =F211 6.30A =F212– 6.30A

DC – BUSBAR

=F101 6.30A =F102 6.30A =F103 6.30A =F104 6.30A =F105 6.30A =F106 6.30A =F107 6.30A =F108 6.30A =F109 6.30A =F110 6.30A =F111 6.30A =F112+ 6.30A

5MWh 5MWh

AREA# B2 – SB2

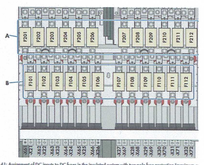


Figure 41: Assignment of DC inputs to DC fuses in the insulated system with two-pole fuse protection (maximum as

Position	Designation
A	DC fuses with negative terminal DC-
B	DC fuses with positive terminal DC+

SCB	String	Putere SCB[W]	Putere SCB[W]	UMPP[V]	IMPP[A]	FUSE[A]
SCBA-2.1	18	18620	335160	1072.4	312.53	500
SCBA-2.2	20	18620	372400	1072.4	347.26	500
SCBA-2.3	24	18620	446880	1072.4	416.71	500
SCBA-2.4	22	18620	409640	1072.4	381.98	500
SCBA-2.5	18	18620	335160	1072.4	312.53	500
SCBA-2.6	20	18620	372400	1072.4	347.26	500
SCBA-2.7	23	18620	428260	1072.4	399.35	500
SCBA-2.8	24	18620	446880	1072.4	416.71	500
SCBA-2.9	16	18620	297920	1072.4	277.81	500
SCBA-2.10	16	18620	297920	1072.4	277.81	500
SCBA-2.11	24	18620	446880	1072.4	416.71	500
SCBA-2.12	18	18620	335160	1072.4	312.53	500
SCBA-2.13	17	18620	316540	1072.4	295.17	500
	269		4,841,200.00			

SA2-2.1.2

String 2 (28 panouri)

SA2-2.1.1 – 28 PAN

P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14

P28 P27 P26 P25 P24 P23 P22 P21 P20 P19 P18 P17 P16 P15

SA2-2.1.18

String 18 (28 panouri)

PVT-F 2(4x25)/10mm2) PLUSMINUS MMG(SOLAR)

SCB A-2.2 SCB A-2.3 SCB A-2.4 SCB A-2.5 SCB A-2.6 SCB A-2.7 SCB A-2.8 SCB A-2.9 SCB A-2.10 SCB A-2.11 SCB A-2.12 SCB A-2.13

SCB/SIR A–2.1

SCB NUMBER (1–13)

INVERTER NUMBER (1)

SCB A-2.1

1) Input FUSE Plus and Minus Boards(Type 1500V DC-SR CYL 10 X 38 25A (8 inputs/board, 4 Boards), 64x Fuse Links
2) Monitoring block with DC-CT on Plus Board

Cutie de conexiuni

TOPSOLAR AUD 1500V 1,5(2xYYfmm2)

3) INPUT FUSE Plus and Minus Type NH DC 1500V 400A, 22x FUSE LINK NO GFDI

B =SC1 SUNNY CENTRAL 4400-UP

AC POWER 4400kVA (1x4400kW) @30°C 3960kVA (1x3960kW) @50°C 20/0.69kV KNAN (variants) DYY1 (variants) SIPS 3 (variants) 50Hz

MV CONNECTORS IN/EXPAND. C

TO TYP.M

SINGLE CORE SHIELDED MV CABLES 90CF WIMS

MS1-53

DC_PwrAREA#2 4841.2

DATA STATION METEOCONTROL X-SERIES

STATIE METEO

DPS-500_1 DPS-500_2 DPS-500_3

=SDC4 BLOCURI CONVERSIE DC/DC MAX. 500kW/UNIT OPTIONAL IN ORDER PHASE

=FOC/LIYCYY MONITORIZARE CAMP SOLAR

+MVSG MEDIUM VOLTAGE SWITCH GEAR 20kV

MV CONNECTORS IN/EXPAND. C

TO TYP.M

SINGLE CORE SHIELDED MV CABLES 90CF WIMS

MS1-53

TERMINALE DE CONECTARE DC SI ATRIBUIRE PROTECTII FUZIBILE

DC + BUSBAR

=F201 500A =F202 500A =F203 500A =F204 500A =F205 500A =F206 500A =F207– 500A

X210 X220 X230 X240 X250 X260 X270

=F208 500A =F209 500A =F210 500A =F211 500A =F212 500A =F213– 500A

X280 X290 X300 X310 X320 X330

DC – BUSBAR

=F101 500A =F102 500A =F103 500A =F104 500A =F105 500A =F106 500A =F107+ 500A

X610 X620 X630 X640 X650 X660 X670

=F108 500A =F109 500A =F110 500A =F111 500A =F112 500A =F113+ 500A

X680 X690 X700 X710 X720 X730

SCB A–2.1 SCB A–2.2 SCB A–2.3 SCB A–2.4 SCB2 A–2.5 SCB A–2.6 SCB A–2.7

SCBA–2.8 SCB A–2.9 SCB A–2.10 SCB A–2.11 SCB A–2.12 SCB A–1.13

INPUT FUSES PLUS

INPUT FUSES MINUS

INV

STORAGE CENTRAL INVERTER 2

DC_PwrAREA#2

Data Station X-Series Outdoor

+MVSG MEDIUM VOLTAGE SWITCH GEAR 20kV

MV CONNECTORS IN/EXPAND. C

TO TYP.M

SINGLE CORE SHIELDED MV CABLES 90CF WIMS

MS1-53

TERMINALE DE CONECTARE DC SI ATRIBUIRE PROTECTII FUZIBILE

DC + BUSBAR

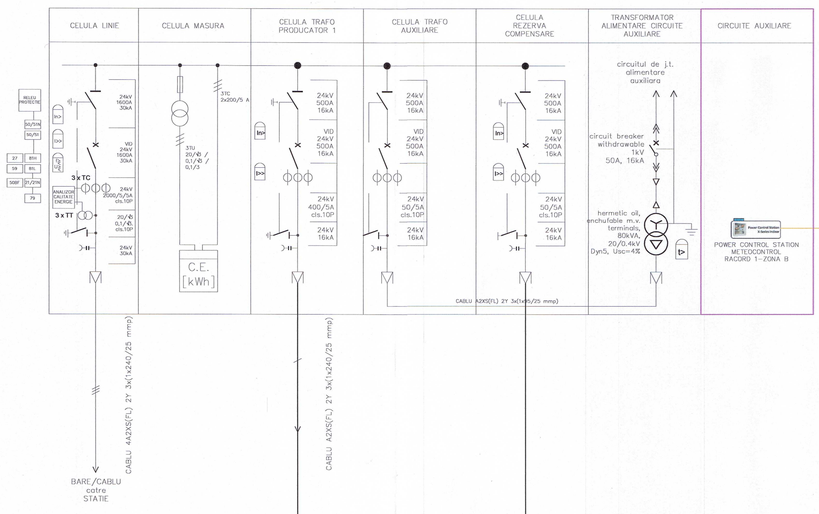
=F201 6.30A =F202 6.30A =F203 6.30A =F204 6.30A =F205 6.30A =F206 6.30A =F207 6.30A =F208 6.30A =F209 6.30A =F210 6.30A =F211 6.30A =F212– 6.30A

DC – BUSBAR

=F101 6.30A =F102 6.30A =F103 6.30A =F104 6.30A =F105 6.30A =F106 6.30A =F107 6.30A =F108 6.30A =F109 6.30A =F110 6.30A =F111 6.30A =F112+ 6.30A

5MWh 5MWh

PUNCT DE CONEXIUNE



Autoritatea Nationala de Reglementare in Domeniul Energiei

ing. Popa Cosmin

Verificator de proiecte de instalatii electrice

Autorizatia nr. 202120099

Valabila pana la data 17.04.2031

proiectant de specialitate	Beneficiar	AO	Proiect numar RES_DOBRO_04
RES TERRANET HOLDING S.R.L. Soseaua Nordului nr. 620, Sector 1, Bucuresti J2022006620408 CUI RO45930046	TERRAVIS STUDIO S.R.L.		Cod plansa RES_DOBRO_04_PTh_BESS2_Situatie
	Adresa DOBROSLOVENI, JUDETUL OLT		Faza: PTh Revizia: 0
Proiectant: ing. SEILA RADU	Scara	Denumire proiect DEZVOLTAREA UNEI CAPACITATI DE STOCARE A ENERGIEI ELECTRICE IN CENTRALA ELECTRICA FOTOVOLTAICA CEF DOBROSLOVENI 2	
Desenat: ing. BRIANA CRISTIAN	Data SEPT 2026	Titlu plansa SCHEMA MONOFILARA	
Sef de proiect: ing. AUREL ARION			