BASE LOAD POWER HUB (BLPH)

B-100 HVAC and LIGHTING PANELWIRING DRAWINGS and GENERAL ARRANGEMENT (INCL INTERCONNECTION) - E&I SHELTERS

B100-HSB-001

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
05	24/01/25				ACCEPT FOR CONSTRUCTION (AFC)
04	10/12/24				ACCEPT FOR CONSTRUCTION (AFC)
03	05/09/24				ISSUE FOR REVIEW (IFR)
02	13/06/24				ISSUE FOR REVIEW (IFR)
01	15/04/24				ISSUE FOR REVIEW (IFR)
00	15/04/24				ISSUE FOR REVIEW (IFR)

CROSSWIND

ROSETTI MARINO

TITLE : BASE LOAD POWER HUB (BLPH)
WIRING DIAGRAM
FRONT PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724000049-HV-DA-00026

SHEET 001

REV. 05

REV.	MODIFICA	DATA	FIRMA
05	ACCEPT FOR CONSTRUCTION	24/01/25	
04	ACCEPT FOR CONSTRUCTION	10/12/24	
03	ISSUE FOR APPROVAL	05/09/24	

DATA	15/04/2024
DISEGN.	F.M.
VISTO	S.S.
APPR.	M.G.

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tel. 0039–0371–69076
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CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
COVER

ROSETTI MARINO ALEXSISTEMI

1724000049-HV-DA-00026

FG. 1

F.S. 2

LISTA FOGLI \ INDEX

Foglio Sheet	Descrizione Description	Revisioni Revisions								
		1	2	3	4	5	6	7	8	9
1	COVER	X	X	X	X	X				
2	INDEX	X	X	X	X	X				
3	SIMBOL LIST	X	X	X	X	X				
4	EXTERNAL VIEW	X	X	X	X	X				
5	INTERNAL VIEW	X	X	X	X	X				
6	POWER SECTION	X	X	X	X	X				
6A	POWER SECTION	X	X	X	X	X				
6B	POWER SECTION	X	X	X	X	X				
7	POWER SECTION	X	X	X	X	X				
8	POWER SECTION	X	X	X	X	X				
9	POWER SECTION	X	X	X	X	X				
9A	POWER SECTION	X	X	X	X	X				
10	AUX SECTION	X	X	X	X	X				
11	AUX SECTION	X	X	X	X	X				
11A	AUX SECTION	X	X	X	X	X				
12	AUX SECTION	X	X	X	X	X				
13	AUX SECTION	X	X	X	X	X				
14	AUX SECTION	X	X	X	X	X				
15	AUX SECTION	X	X	X	X	X				
16	AUX SECTION	X	X	X	X	X				
17	AUX SECTION	X	X	X	X	X				
18	AUX SECTION	X	X	X	X	X				
19	AUX SECTION	X	X	X	X	X				
20	AUX SECTION	X	X	X	X	X				
20A	AUX SECTION	X	X	X	X	X				
20B	AUX SECTION	X	X	X	X	X				
20C	PLC ARCHITECTURE	X	X	X	X	X				
20D	PLC ARCHITECTURE	X	X	X	X	X				

Foglio Sheet	Descrizione Description	Revisioni Revisions								
		1	2	3	4	5	6	7	8	9
21	ELECTRICAL HEATER MODULATION	X	X	X	X	X				
22	ELECTRICAL HEATER MODULATION	X	X	X	X	X				
23	AVAILABLE SIGNAL	X	X	X	X	X				
24	TERMINAL STRIP	X	X	X	X	X				
25	TERMINAL STRIP	X	X	X	X	X				
26	MATERIAL LIST	X	X	X	X	X				
27	MATERIAL LIST	X	X	X	X	X				
28	MATERIAL LIST	X	X	X	X	X				
29	MATERIAL LIST	X	X	X	X	X				
30	MATERIAL LIST	X	X	X	X	X				
31	MATERIAL LIST	X	X	X	X	X				

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CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

INDEX

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 2
F.S. 3

Symbol	Description	Symbol	Description	Symbol	Description
TR	VOLTAGE TRANSFORMER		SONIC INDICATOR	F.	FUSE
TA	CURRENT TRANSFORMER	*	INDICATOR INSTRUMENT		CONTACT N.O.
M ~	MOTOR IN C.A.		SELECTOR SWITCH		CONTACT N.C.
	GROUND : GENERAL SYMBOL	52.	SWITCH		COMMUTATION CONTACT
L..	SIGNAL LAMP	52.	AUTOMATIC CIRCUIT BREAKER	P	CONTACT ACTUATED BY A PRESSURE
L..	SIGNAL LAMP + HEATER	52. Id	DIFFERENTIAL AUTOMATIC BREAKER		CONTACT ACTUATED BY A FLOW
L..	SIGNAL LAMP + VOLTAGE TRANSF.	89.	DISCONNECTING SWITCH		CONTACT ACTUATED BY A LEVEL
	SIGNAL LAMP–PUSH BUTTON	89.	LOADED CIRCUIT BREAKER	θ	CONTACT ACTUATED BY A TEMPERATURE
	CLOSING BUTTON	89.	FUSE DISCONNECTING SWITCH	2 3 4	TERMINAL STRIP
	OPENING BUTTON	6.	CONTACTOR		SQUARE POWER TERMINAL CLAMP
	ROTARY SWITCH	6..	CONTACTOR COIL		SQUARE AUX. TERMINAL CLAMP
T..	CONTACT DELAYED TO THE ATTRACTION N.O.		AUXILIARY RELAY COIL		REMOTE TERMINAL CLAMP
T..	CONTACT DELAYED TO THE ATTRACTION N.C.	T..	TIMER WITH DELAY TO THE ATTRACTION		ONE–PHASE SYSTEM + NEUTRAL
T..	CONTACT DELAYED TO THE RE–DROP N.O.	T..	TIMER WITH DELAY TO THE RE–DROP		THREE–PHASE SYSTEM
T..	CONTACT DELAYED TO THE RE–DROP N.C.	49..	THERMAL RELAY		THREE–PHASE SYSTEM + NEUTRAL
79.	LIMIT SWITCH N.O.		HEATING ELEMENT		
79.	LIMIT SWITCH N.C.		ELECTROVALVE		

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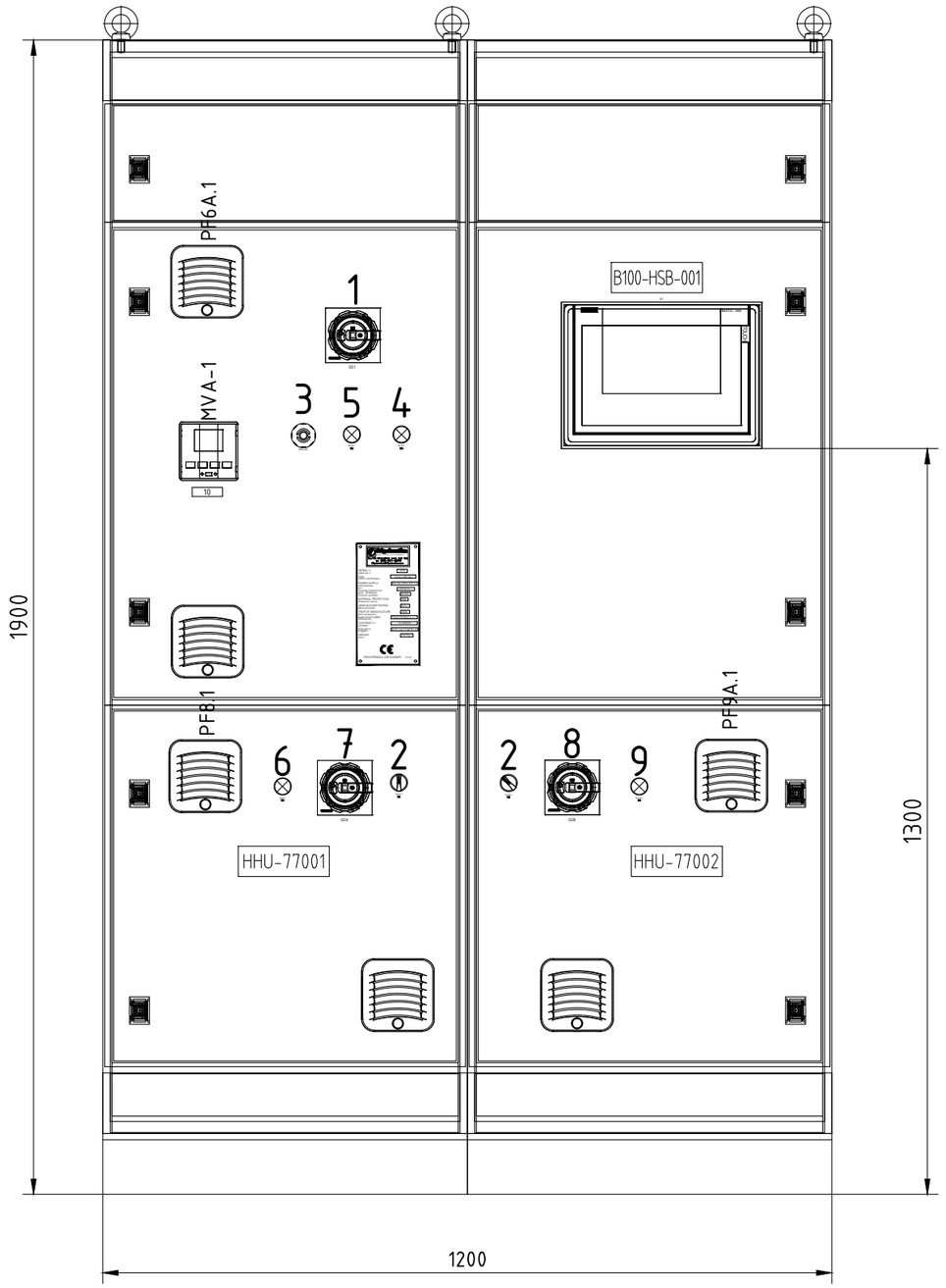
BASE LOAD POWER HUB (BLPH)
B–100 HV SWITCH ROOM
SIMBOL LIST

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 3
F.S. 4

EXTERNAL VIEW



LABEL	
1	MAIN SWITCH
2	AUTO-0-MANUAL
3	HPB-003
4	24VDC VOLTAGEPRESENCE
5	230V VOLTAGE PRESENCE
6	230V VOLTAGE PRESENCE
7	HHU-77001 MAIN SWITH
8	HHU-77002 MAIN SWITCH
9	230V VOLTAGE PRESENCE
10	MULTIMETER

CABINET QUOTE:
LENGHT 1200 mm
HEIGHT 1900 mm
DEPT 600mm

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SERIAL n.: *Matricola n.:*	1626
TAG: *Codice identificativo:*	B100-HSB-001
POWER SUPPLY: *Alimenatzione:*	400 Vac 50Hz 3Ph+N
Icc: *Coorente cortocircuito:*	25 kA/1s
AUX. TENSION: *Tensione ausiliaria:*	24 Vdc
INTERNAL PROTECTION: *Protezione interna:*	IP54
MAIN BUS BAR RATING: *Barra principale:*	40 A
YEAR OF MANUFACTURE: *Anno produzione:*	2024
MANUFACTURER: *Costruzione:*	FRIGOTERMICA s.r.l.
CONTRACT n.: *Contratto:*	51/240554
PROJECT: *Progetto:*	BASE LOAD POWER HUB
WEIGHT: *Peso:*	700 Kg

CE

FRIGOTERMICA JOB NUMBER: 4112

SCALA 1:10

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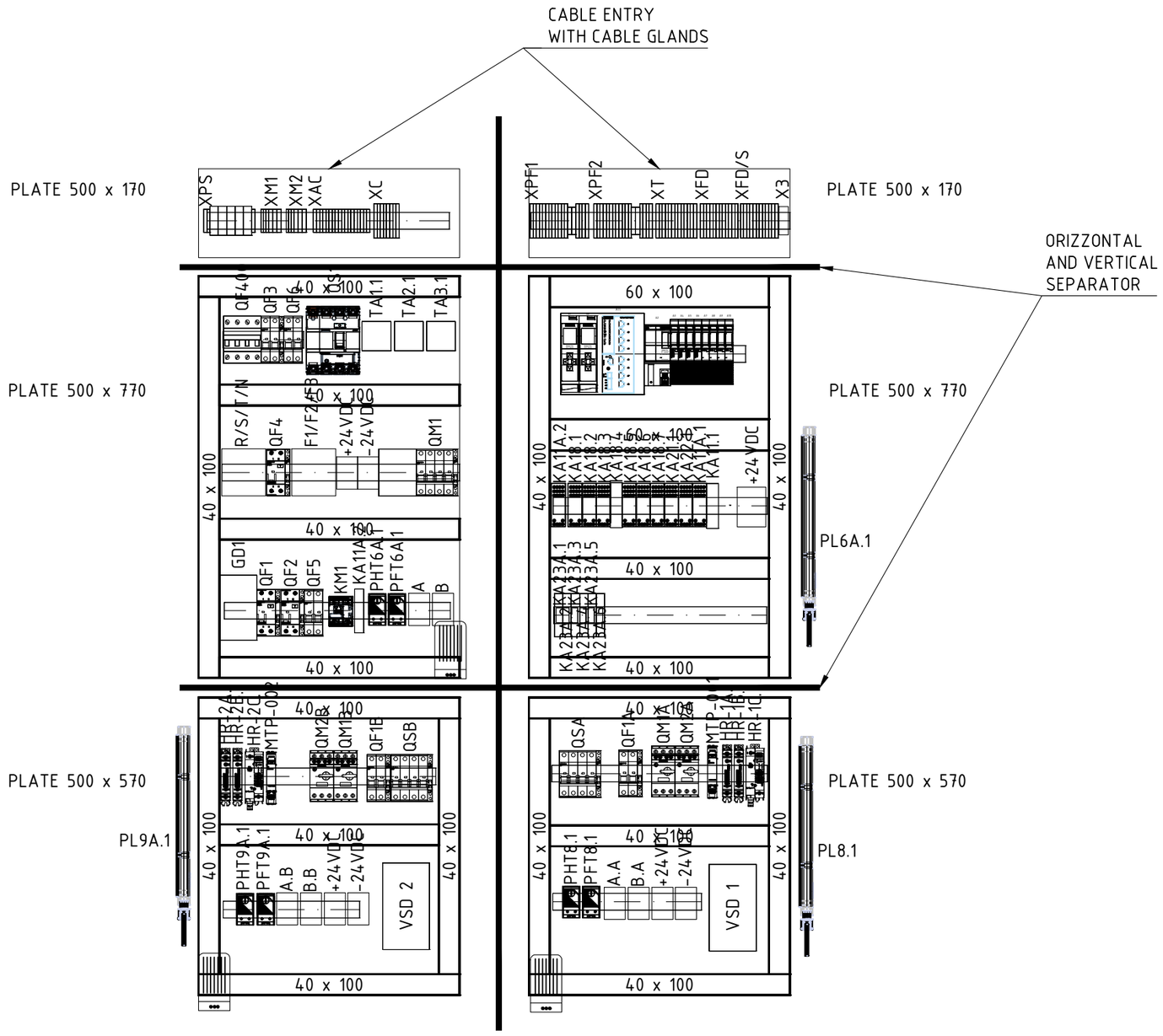
BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
EXTERNAL VIEW

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FG. 4
F.S. 5

INTERNAL VIEW



SCALA 1:10

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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

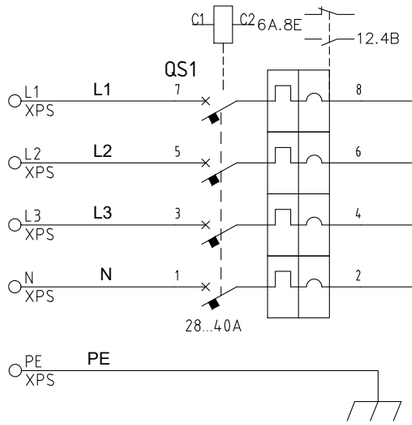
INTERNAL VIEW

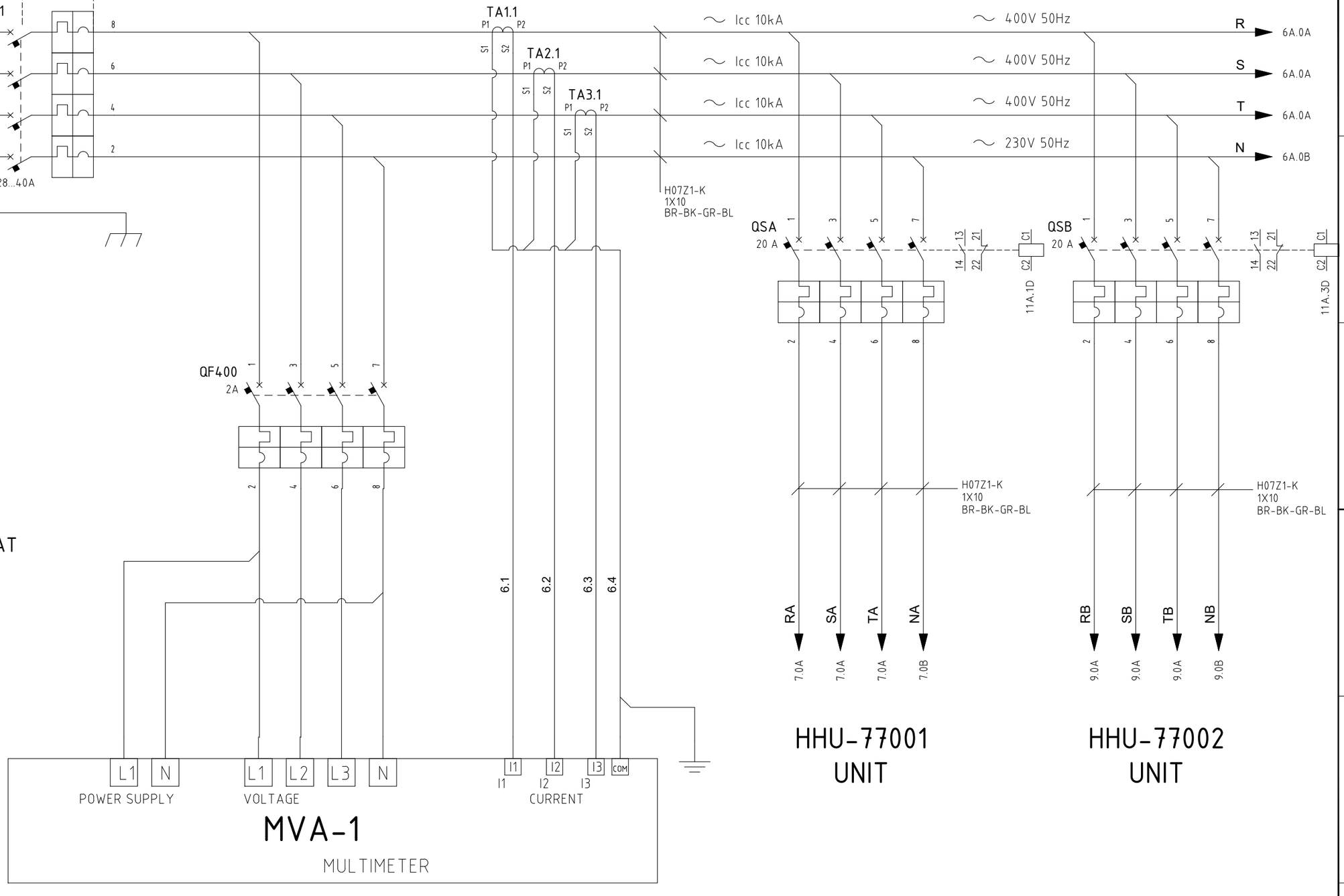
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1724000049-HV-DA-00026

FG. 5
F.S. 6

POWER SUPPLY
FROM
LV SWITCHGEAR
3PH + N + PE
400V 50Hz
5G25
TAG SG-200N1





HHU-77001
UNIT

HHU-77002
UNIT

RATED POWER: 16.40 kW
RATED CURRENT: 29.5 A

ONLY UNIT HHU-77001 OR
HHU-77002 ACTIVATED, NEVER AT
SAME TIME

COLOR IDENTIFICATION:
COLORED CABLE OR IDENTIFIED WITH
HEAT SHRINK COLOURED SLEEVE 5cm

400V 3P + N
- ⟶ BROWN
- ⟶ BLACK
- ⟶ GRAY
- ⟶ BLU

230V 1P + N
- ⟶ BROWN
- ⟶ BLU

24Vdc
- ⟶ RED
- ⟶ BLACK

PANEL INTERNAL CABLES TYPE: H07Z1-K OR FG17
UNIT INTERNAL CABLES TYPE: FG16OM16 GREEN SHEATH NOT ARMOURED

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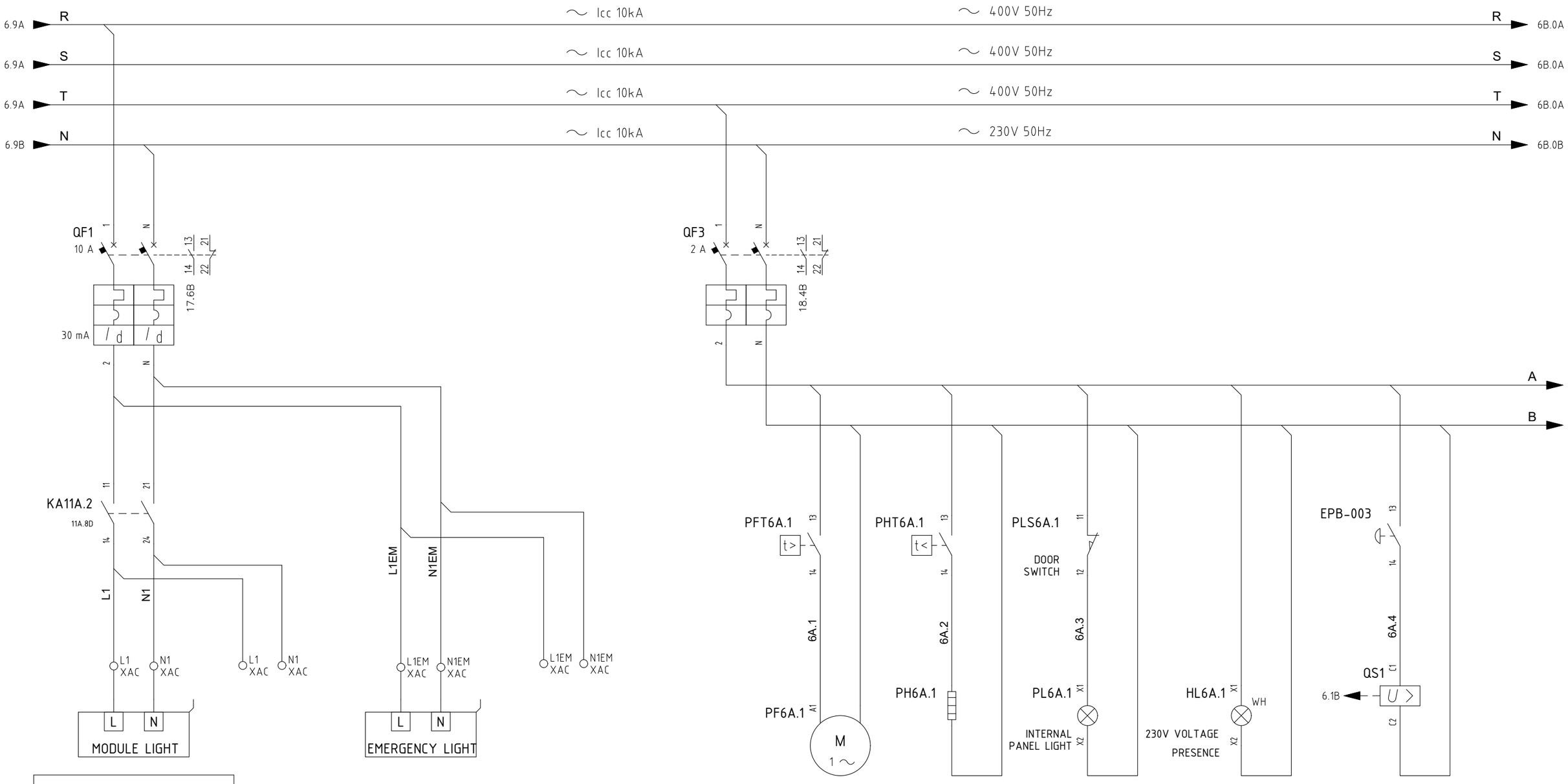
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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
POWER SECTION

ROSETTI MARINO | ALEXSISTEMI spa

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FG. 6
F.S. 6A



MODULE INTERNAL LIGHT	
RATED	ABSORBED
1 kW	0.9
4.35 A	3.9 A

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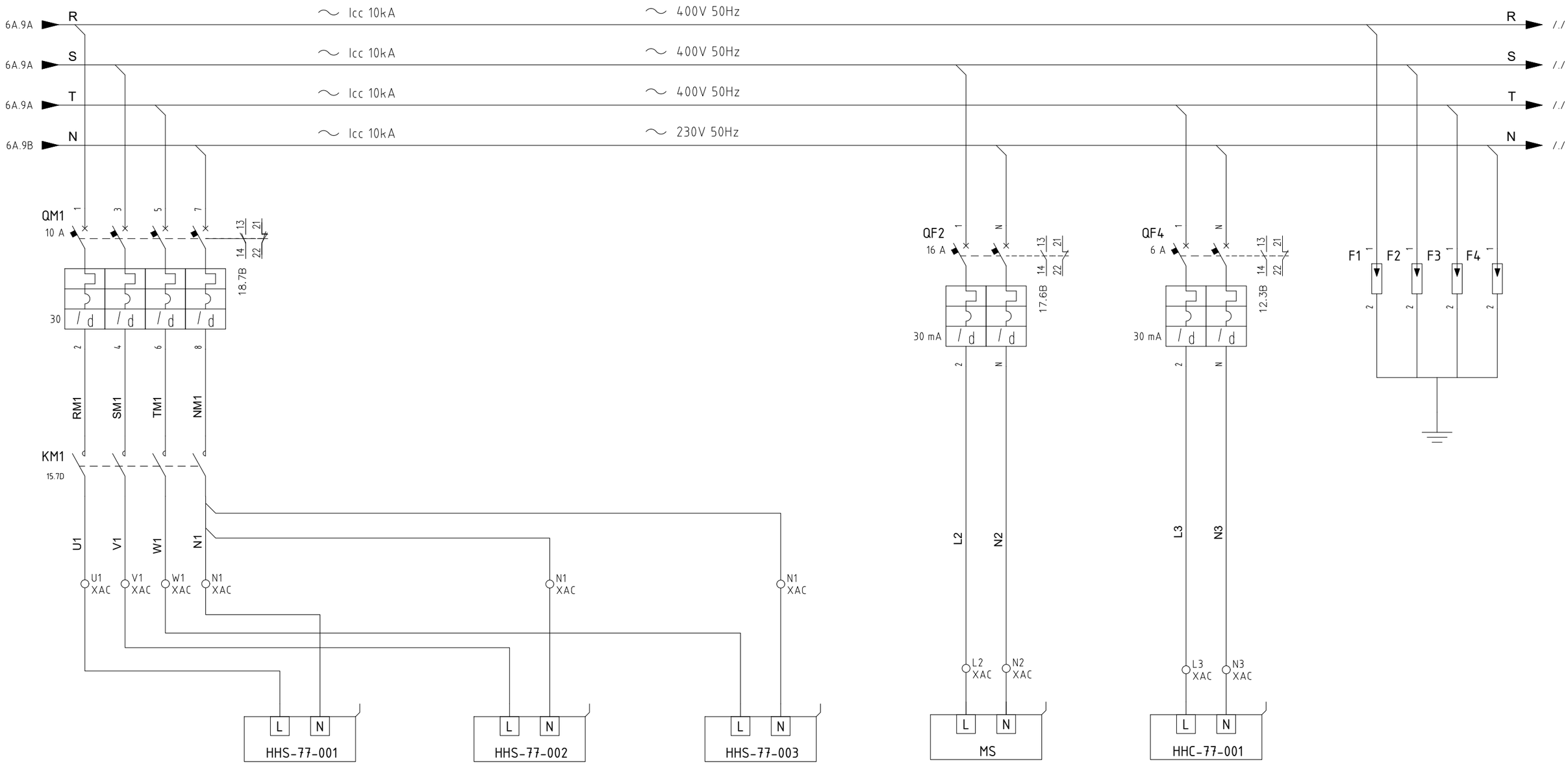
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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
POWER SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

F.G. 6A
F.S. 6B



HSS-77-001	
ELECTRICAL HEATER	
RATED	ABSORBED
2 kW	2 kW
8.7 A	8.7 A

HSS-77-002	
ELECTRICAL HEATER	
RATED	ABSORBED
2 kW	2 kW
8.7 A	8.7 A

HSS-77-003	
ELECTRICAL HEATER	
RATED	ABSORBED
2 kW	2 kW
8.7 A	8.7 A

MODULE INTERNAL SOCKET	
RATED	ABSORBED
2 kW	1.8 kW
8.7 A	7.83 A

HHC-77-001	
HEATING CABLE	
RATED	ABSORBED
0.12 kW	0.12 kW
0.7 A	0.7 A

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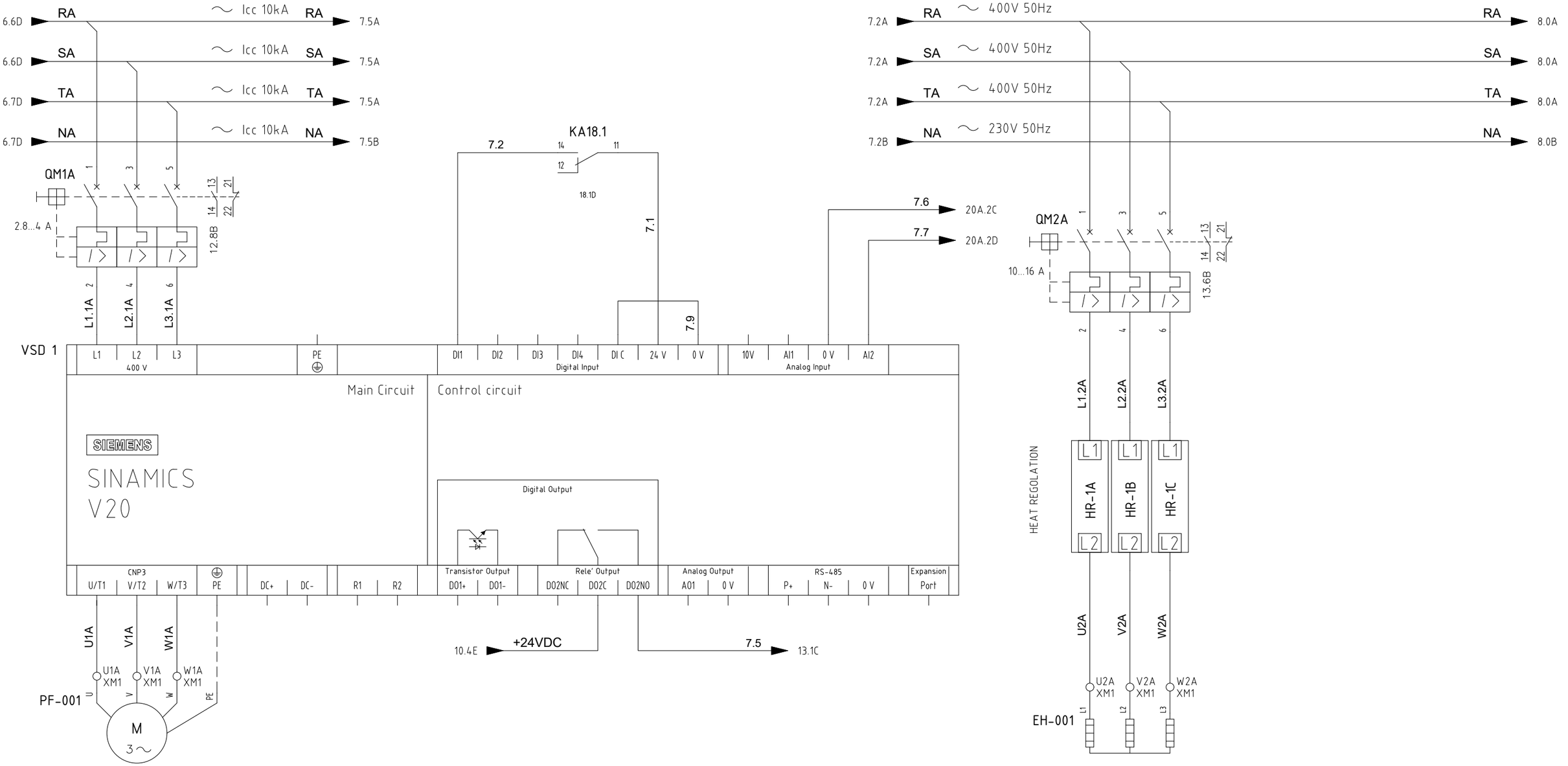
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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
POWER SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 6B
F.S. 7



HFM-77-101	
PRESSURIZING FAN 1	
RATED	ABSORBED
1.1 kW	1 kW
2.3 A	2 A

HSS-77-103	
ELECTRICA HEATER	
RATED	ABSORBED
10 kW	10 kW
14.5 A	14.5 A

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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
POWER SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 7
F.S. 8

7.9A RA ~ Icc 10kA ~ 400V 50Hz RA /./

7.9A SA ~ Icc 10kA ~ 400V 50Hz SA /./

7.9A TA ~ Icc 10kA ~ 400V 50Hz TA 21.3F

7.9B NA ~ Icc 10kA ~ 230V 50Hz NA /./

QF1A
2 A
1 N 13 21
14 22
18.3B
2 N

A.A

B.A

PFT8.1 13 t> 14 8.1 PF8.1 A1 M 1 ~

PHT8.1 13 t< 14 8.2 PH8.1

PLS8.1 11 DOOR SWITCH 12 8.3 PL8.1 X1 INTERNAL PANEL LIGHT X2

HL8.1 X1 WH 230V VOLTAGE PRESENCE X2

KA18.5
15.5D
8.4
206 XPF1
HSS-77-101
207 XPF1

KA18.4
18.4D
11 14 12
8.5
212 XPF1 213 XPF1

HDZ-77-101 A1 M 1 ~

PF-001
MOTOR HEATER

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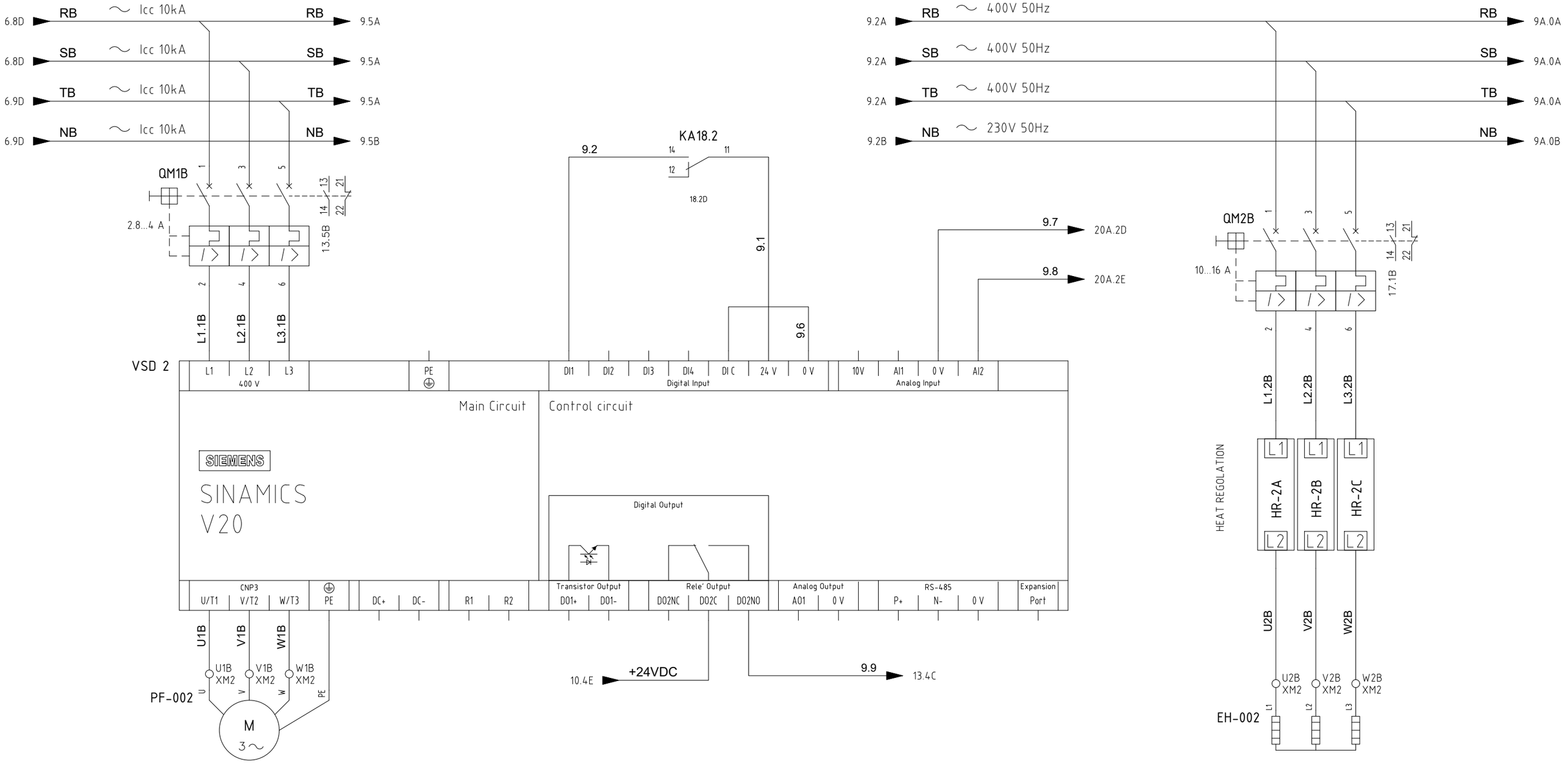
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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
POWER SECTION

ROSETTI MARINO ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 8
F.S. 9



HFM-77-102	
PRESSURIZING FAN 2	
RATED	ABSORBED
1.1 kW	1 kW
2.3 A	2 A

HHS-77-104	
ELECTRICAL HEATER	
RATED	ABSORBED
10 kW	10 kW
14.5 A	14.5 A

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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
POWER SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 9
F.S. 9A

9.9A RB ~ Icc 10kA ~ 400V 50Hz RB /./

9.9A SB ~ Icc 10kA ~ 400V 50Hz SB /./

9.9A TB ~ Icc 10kA ~ 400V 50Hz TB 22.3F

9.9B NB ~ Icc 10kA ~ 230V 50Hz NB /./

QF1B
2 A
17.3B
1 N 13 21
2 N 14 22

A.B

B.B

PFT9A.1
t>
13 14
9A.1
PF9A.1 A1
M
1 ~

PHT9A.1
t<
13 14
9A.2
PH9.1

PLS9A.1
11 12
DOOR SWITCH
9A.3
PL9A.1 X1 X2

HL9A.1 X1 X2
WH
230V VOLTAGE PRESENCE

KA18.6
15.7D
9A.4
306 XPF2
HSS-77-102
307 XPF2

KA18.7
18.7D
11 14
9A.5
12
312 XPF2
313 XPF2
HDZ-77-102 A1
M
1 ~

PF-002
MOTOR HEATER

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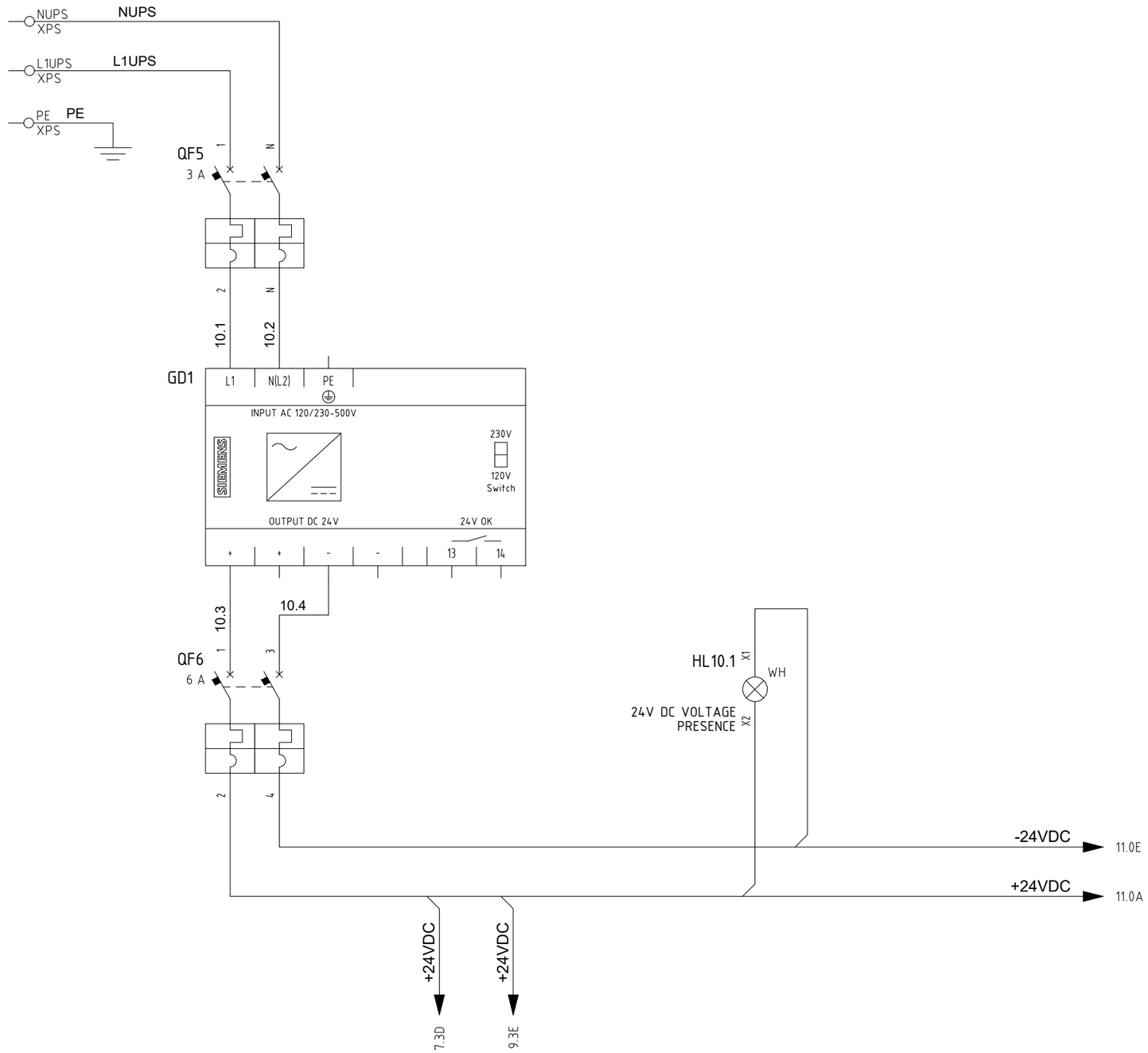
BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
POWER SECTION

ROSETTI MARINO | ALEXSISTEMI spa

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FG. 9A
F.S. 10

UPS POWER SUPPLY
FROM
AC UPS - PAS DB
1PH + N + PE 230V
50Hz
3G4
TAG DP-200F3



RATED POWER: 0.7 kW
RATED CURRENT: 3 A

ABSORBED POWER: 0.5 kW
ABSORBED CURRENT: 2 A

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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
AUX SECTION

ROSETTI MARINO
ALEXSISTEMI spa

1724000049-HV-DA-00026

F.G. 10
F.S. 11

SHUT DOWN
FROM
CUSTOMER SIS

PF-001
PRESSURIZING FAN
THERMIC PROTECTION
PTC-001

PF-002
PRESSURIZING FAN
THERMIC PROTECTION
PTC-002

10.7E +24VDC

+24VDC 11A.0A

24V DC
FROM SIS
B400-SIS-0901
1= OK
0= SHUT
DOWN

100 XC
11.1
KA11.1 A1
A2
101 XC
11.2

14.4B
11 12 14
21 22 24
31 32 34
41 42 44

MTP-001
SIEMENS
MOTOR THERMIC PROTECTION
TRIPPED
A1/11
T1 T2 A2 12 14 NC NO
11.3 11.4
11.5 12.5B
200 XPF1 201 XPF1

MTP-002
SIEMENS
MOTOR THERMIC PROTECTION
TRIPPED
A1/11
T1 T2 A2 12 14 NC NO
11.6 11.7
11.8 13.2C
300 XPF2 301 XPF2

10.7E -24VDC

-24VDC 11A.0E

REV.	MODIFICA	DATA	FIRMA		
05	ACCEPT FOR CONSTRUCTION	24/01/25		DATA	15/04/2024
04	ACCEPT FOR CONSTRUCTION	10/12/24		DISEGN.	F.M.
03	ISSUE FOR APPROVAL	05/09/24		VISTO	S.S.
				APPR.	M.G.

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tel. 0039–0371–69076
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CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
AUX SECTION

ROSETTI MARINO
ALEXSISTEMI spa

1724000049-HV-DA-00026
FG. 11
F.S. 11A

HPB-77-101
EMERGENCY POWER
BUTTON
HHU-77001

HPB-77-102
EMERGENCY POWER
BUTTON
HHU-77002

LIGHT SWITCH

11.9A +24VDC

+24VDC 12.0A

202 XPF1

HPB-77-101 11 12

203 XPF1

11A.3

302 XPF2

HPB-77-102 11 12

303 XPF2

11A.4

QSA C1 C2

6.6B

QSB C1 C2

6.8B

104 XC

106 XC

LIGHT
PUSH BUTTON

105 XC

107 XC

11A.6

KA11A.1 A1 A2

A A

KA11A.1 11 12 14

11A.5

KA11A.2 A1 A2

B B

6A.0C 14 11
6A.0C 24 21

11A.8C 11 12 14 21 22 24 31 32 34 41 42 44

11.9E -24VDC

-24VDC 12.0A

REV.	MODIFICA	DATA	FIRMA
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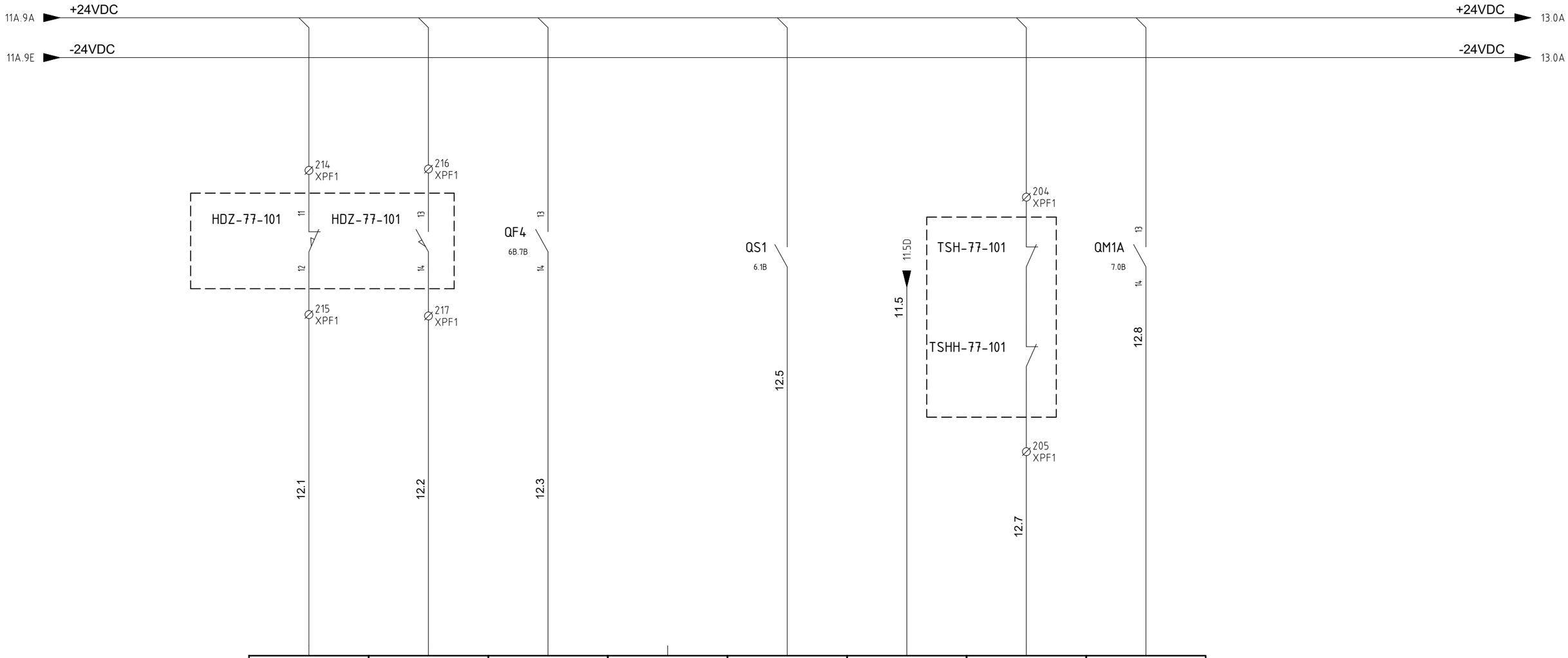
CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
AUX SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 11A
F.S. 12



1	2	3	4	5	6	7	8
I0.0	I0.1	I0.2	I0.3	I0.4	I0.5	I0.6	I0.7
CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4
Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:
HDZ-77-101 CLOSE FEEDBACK 1= CLOSE 0= NOT CLOSE	HDZ-77-101 OPEN FEEDBACK 1= OPEN 0= NOT OPEN	HHC-77-001 HETING CABLE TRIP	SPARE	MAIN BRAKER TRIP SIGNAL	TE-77-101 MOTOR. TERM.PROT 0=MALFUNC. 1=NORMAL	TSH/HH-77-101 EL.HEATER THERM. 0=MALFUNC. 1=NORMAL	TRIP SIGNAL HFM-77-101 0=MALFUNC. 1=NORMAL

REV.	MODIFICA	DATA	FIRMA
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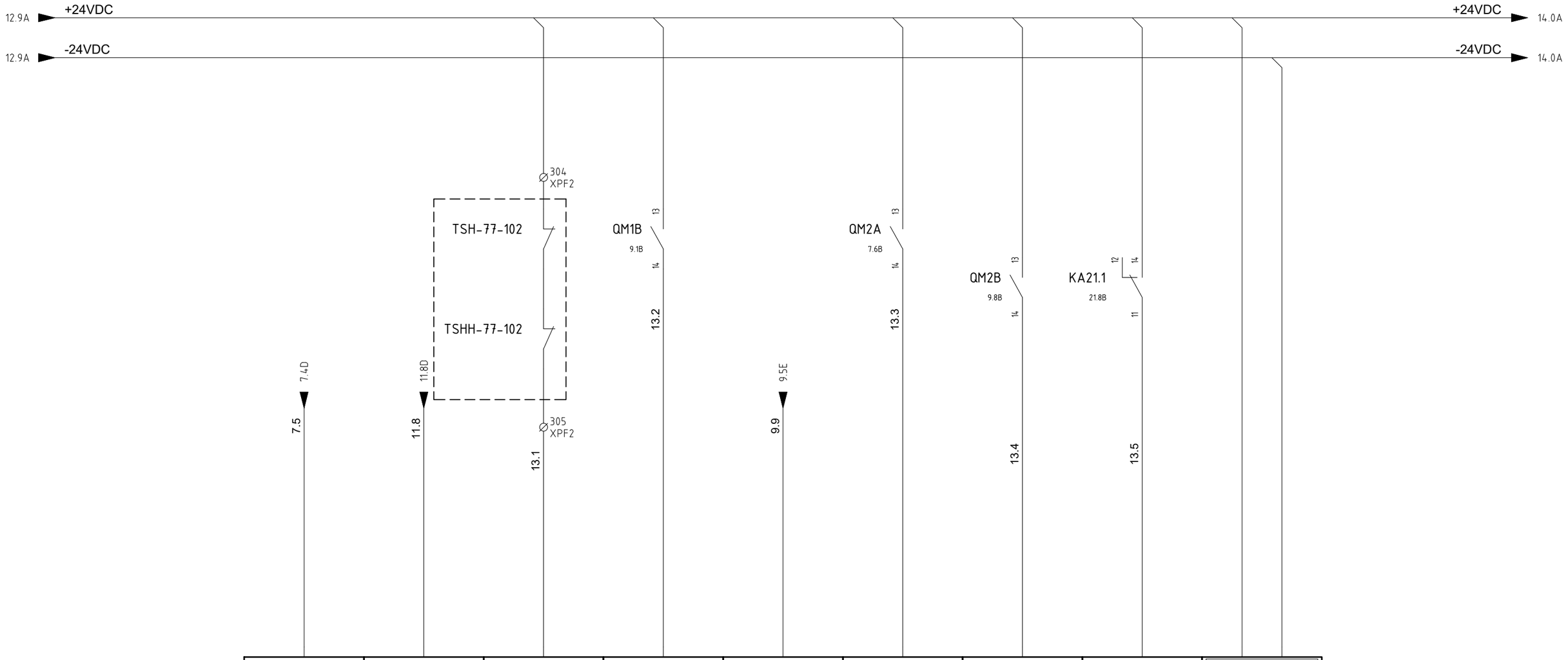
CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
AUX SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 12
F.S. 13



9	10	11	12	13	14	15	16	L+ M
I1.0	I1.1	I1.2	I1.3	I1.4	I1.5	I1.6	I1.7	
CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4	CPU: QUADRO GENERALE MOD. : 4
Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:	Name: A3 Sheet:
VSD-1 MALFUN. SIGNAL 0=MALFUNC. 1=NORMAL	TE-77-102 MOTOR. TERM.PROT 0=MALFUNC. 1=NORMAL	TSH/HH-77-102 EL.HEATER THERM. 0=MALFUNC. 1=NORMAL	TRIP SIGNAL HFM-77-102 0=MALFUNC. 1=NORMAL	VSD-2 MALFUN. SIGNAL 0=MALFUNC. 1=NORMAL	HSS-77-101 TRIP SIGNAL 0=MALFUNC. 1=NORMAL	HSS-77-102 TRIP SIGNAL 0=MALFUNC. 1=NORMAL	HSS-77-101 MALFUNCTION 0=MALFUNC. 1=NORMAL	

REV.	MODIFICA	DATA	FIRMA
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DATA	15/04/2024
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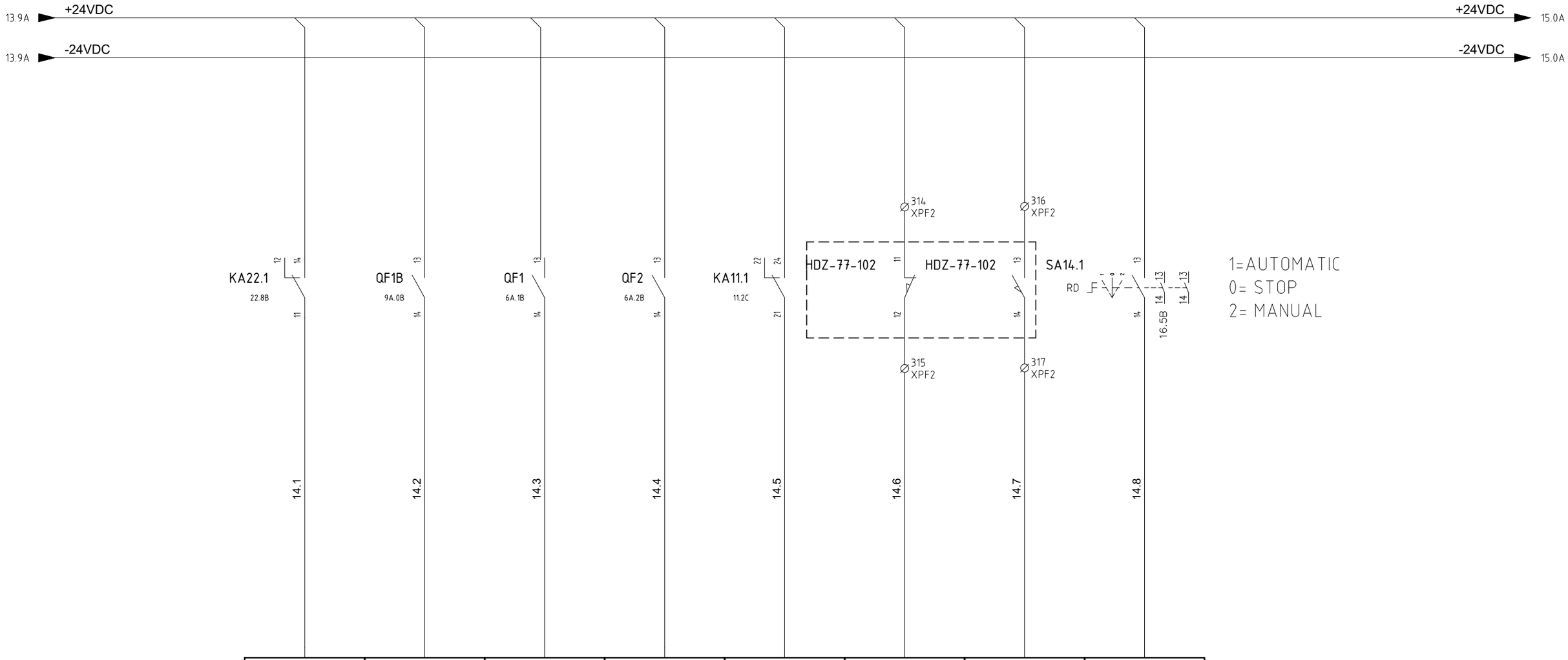
CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
AUX SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 13
F.S. 14



1	2	3	4	5	6	7	8
12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7
CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5
Name: A4 Sheet:	Name: A4 Sheet:	Name: A4 Sheet:	Name: A4 Sheet:	Name: A4 Sheet:	Name: A4 Sheet:	Name: A4 Sheet:	Name: A4 Sheet:
HSS-77-102 MALFUNCTION 0=MALFUNC. 1=NORMAL	TRIP AUX SECTION HHU-77002 PF-002 SECTION	TRIP SIGNAL MODULE LIGHT	TRIP SIGNAL MODULE SOCKET	HVAC SHUT DOWN FROM SIS 0=SHUTDOWN 1=NORMAL	HDZ-77-102 CLOSE FEEDBACK 1= CLOSE 0= NOT CLOSE	HDZ-77-102 OPEN FEEDBACK 1= OPEN 0= NOT OPEN	HHU-77001 SELECTOR AUTOMATIC 0= NOT AUTOMATIC 1= AUTOMATIC

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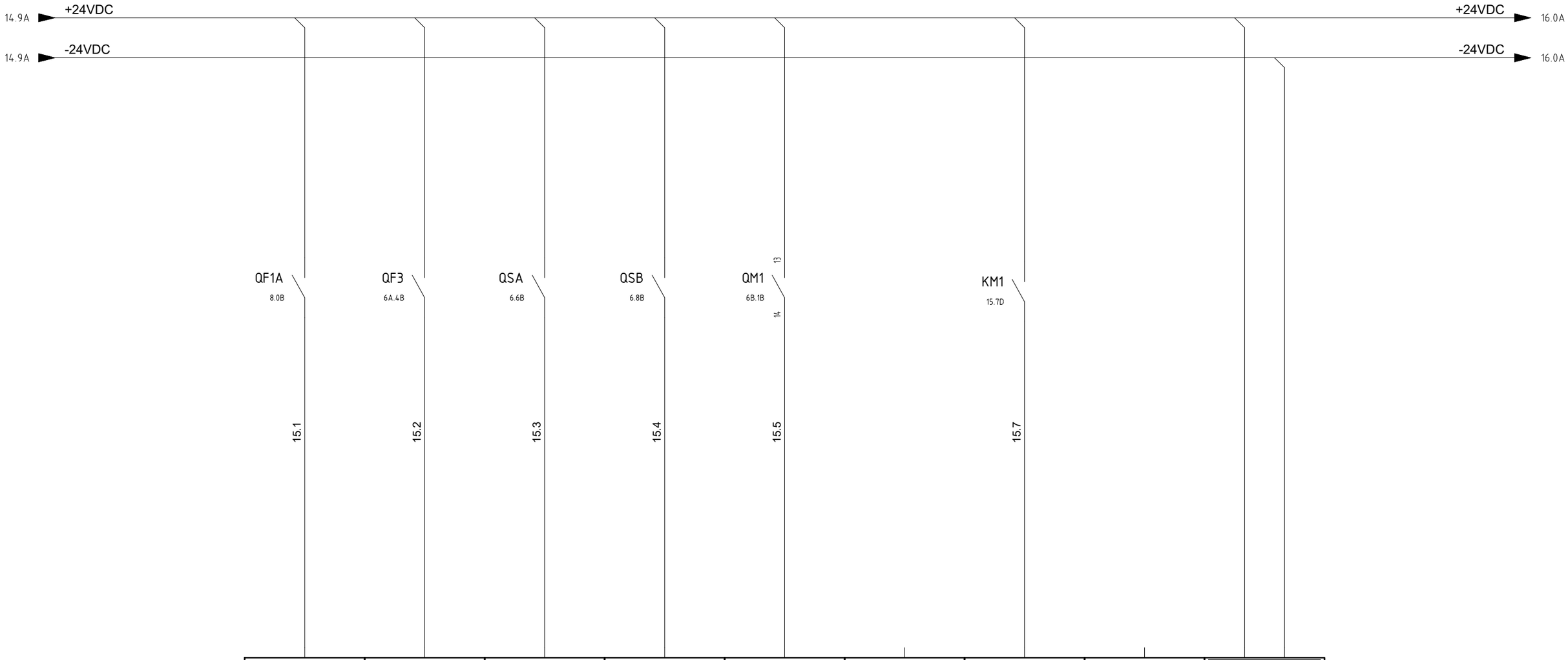
CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
AUX SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 14
F.S. 15



9	10	11	12	13	14	15	16	L+ M
13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	
CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5	CPU: QUADRO GENERALE MOD. : 5
Name: A4 / Sheet:	Name: A4 / Sheet:	Name: A4 / Sheet:	Name: A4 / Sheet:	Name: A4 / Sheet:	Name: A4 / Sheet:	Name: A4 / Sheet:	Name: A4 / Sheet:	Name: A4 / Sheet:
TRIP AUX SECTION HHU-77001 Trip Aux Section PF-001	GENERAL PANEL AUX TRIP General Panel Aux Trip	HHU-77001 MAIN BRAKER TRIP	HHU-77002 MAIN BRAKER TRIP	HSS-77-001/2/3 SPACE HEATER TRIP	SPARE	HSS-77-001/2/3 SPACE HEATER RUN	SPARE	

REV.	MODIFICA	DATA	FIRMA
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04	ACCEPT FOR CONSTRUCTION	10/12/24	
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B-100 HV SWITCH ROOM
AUX SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 15
F.S. 16

15.9A +24VDC

15.9A -24VDC

+24VDC 17.0A

-24VDC 17.0A

1=AUTOMATIC
0= STOP
2= MANUAL

SA16.1 RD

16.6B

208 XPF1 — PDSL-77-101 — 209 XPF1

210 XPF1 — PDT-77-101 — 211 XPF1

308 XPF2 — PDSL-77-102 — 309 XPF2

310 XPF2 — PDT-77-102 — 311 XPF2

SA14.1 14.7B

SA16.1 16.1B

KA23A.1 23A.1E

16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8
9	10	11	12	13	14	15	16
14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7
CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6
Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:
HHU-77002 AUTOMATIC SELECTOR 0=NOT AUTOMATIC 1=AUTOMATIC	HHU-77001 FAN FLOW SWITCH 0=NO FLOW 1= FLOW	HHU-77001 FILTER DIFF SWITCH 0=NORMAL 1=CLOGGED	HHU-77002 FAN FLOW SWITCH 0=NO FLOW 1=FLOW	HHU-77002 FILTER DIFF SWITCH 0=NORMAL 1=CLOGGED	HHU-77001 MANUAL SELECTOR 0=NOT MANUAL 1= MANUAL	HHU-77002 MANUAL SELECTOR 0=NOT MANUAL 1= MANUAL	HFD-77001 CLOSE CONTACT 0= NOT CLOSE 1= CLOSE

REV.	MODIFICA	DATA	FIRMA		
05	ACCEPT FOR CONSTRUCTION	24/01/25		DATA	15/04/2024
04	ACCEPT FOR CONSTRUCTION	10/12/24		DISEGN.	F.M.
03	ISSUE FOR APPROVAL	05/09/24		VISTO	S.S.
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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
AUX SECTION

ROSETTI MARINO — ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 16
F.S. 17



9	10	11	12	13	14	15	16	L+ M
15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	
CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6	CPU: QUADRO GENERALE MOD. : 6
Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:	Name: A5 Sheet:
HFD-77001 OPEN CONTACT 0=NOT OPEN 1=OPEN	HFD-77002 CLOSE CONTACT 0= NOT CLOSE 1= CLOSE	HFD-77002 OPEN CONTACT 0=NOT OPEN 1= OPEN	HFD-77003 CLOSE CONTACT 0= NOT CLOSE 1= CLOSE	HFD-77003 OPEN CONTACT 0= NOT OPEN 1= OPNE	SPARE	SPARE	SPARE	

REV.	MODIFICA	DATA	FIRMA
05	ACCEPT FOR CONSTRUCTION	24/01/25	
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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
AUX SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

F.G. 17
F.S. 18

VSD 1 START COMMAND vsd 1 start command		VSD 2 START COMMAND vsd 2 start command		HVAC MALFUNCTION SIGNAL TO SIS 0=MALFUNC. 1=NORMAL		HDZ-77-101 OPEN COMMAND		PF-001 MOTOR HEATER PF-001 Motor Heater		PF-002 MOTOR HEATER PF-002 Motor Heater		HHS-77001 SPACE HEAER START		HDZ-77-102 OPEN COMMAND	
Name: A6	Sheet:	Name: A6	Sheet:	Name: A6	Sheet:	Name: A6	Sheet:	Name: A6	Sheet:	Name: A6	Sheet:	Name: A6	Sheet:	Name: A6	Sheet:
CPU: QUADRO GENERALE MOD. : 7		CPU: QUADRO GENERALE MOD. : 7		CPU: QUADRO GENERALE MOD. : 7		CPU: QUADRO GENERALE MOD. : 7		CPU: QUADRO GENERALE MOD. : 7		CPU: QUADRO GENERALE MOD. : 7		CPU: QUADRO GENERALE MOD. : 7		CPU: QUADRO GENERALE MOD. : 7	
Q0.0		Q0.1		Q0.2		Q0.3		Q0.4		Q0.5		Q0.6		Q0.7	
1		2		3		4		5		6		7		8	

18.1 18.2 18.3 18.5 18.6 18.7

17.9A +24VDC → 19.0D +24VDC

17.9A -24VDC → 19.0D -24VDC

KA18.1 A1 A2 | KA18.2 A1 A2 | KA18.3 A1 A2 | KA18.4 A1 A2 | KA18.5 A1 A2 | KA18.6 A1 A2 | KM1 A1 A2 | KA18.7 A1 A2

7.3A 11 12 14 21 22 24 31 32 34 41 42 44

9.4A 11 12 14 21 22 24 31 32 34 41 42 44

23.1B 11 12 14 21 22 24 31 32 34 41 42 44

8.7D 11 12 14 21 22 24 31 32 34 41 42 44

8.6D 11 12 14 21 22 24 31 32 34 41 42 44

23.4B

9A.6D 11 12 14 21 22 24 31 32 34 41 42 44

23.5B

6B.1C
6B.1C
6B.1C
6B.1C
20A.2B

9A.8D 11 12 14 21 22 24 31 32 34 41 42 44

REV.	MODIFICA	DATA	FIRMA
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B-100 HV SWITCH ROOM
AUX SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

F.G. 18
F.S. 19

SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	
Name: A6 / Sheet:	Name: A6 / Sheet:	Name: A6 / Sheet:	Name: A6 / Sheet:	Name: A6 / Sheet:	Name: A6 / Sheet:	Name: A6 / Sheet:	Name: A6 / Sheet:	Name: A6 / Sheet:
CPU: QUADRO GENERALE MOD. : 7	CPU: QUADRO GENERALE MOD. : 7	CPU: QUADRO GENERALE MOD. : 7	CPU: QUADRO GENERALE MOD. : 7	CPU: QUADRO GENERALE MOD. : 7	CPU: QUADRO GENERALE MOD. : 7	CPU: QUADRO GENERALE MOD. : 7	CPU: QUADRO GENERALE MOD. : 7	CPU: QUADRO GENERALE MOD. : 7
Q1.0	Q1.1	Q1.2	Q1.3	Q1.4	Q1.5	Q1.6	Q1.7	
9	10	11	12	13	14	15	16	L+ M

18.9C +24VDC → +24VDC 20.0A

18.9D -24VDC → -24VDC 20.0A

REV.	MODIFICA	DATA	FIRMA		
05	ACCEPT FOR CONSTRUCTION	24/01/25		DATA	15/04/2024
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03	ISSUE FOR APPROVAL	05/09/24		VISTO	S.S.
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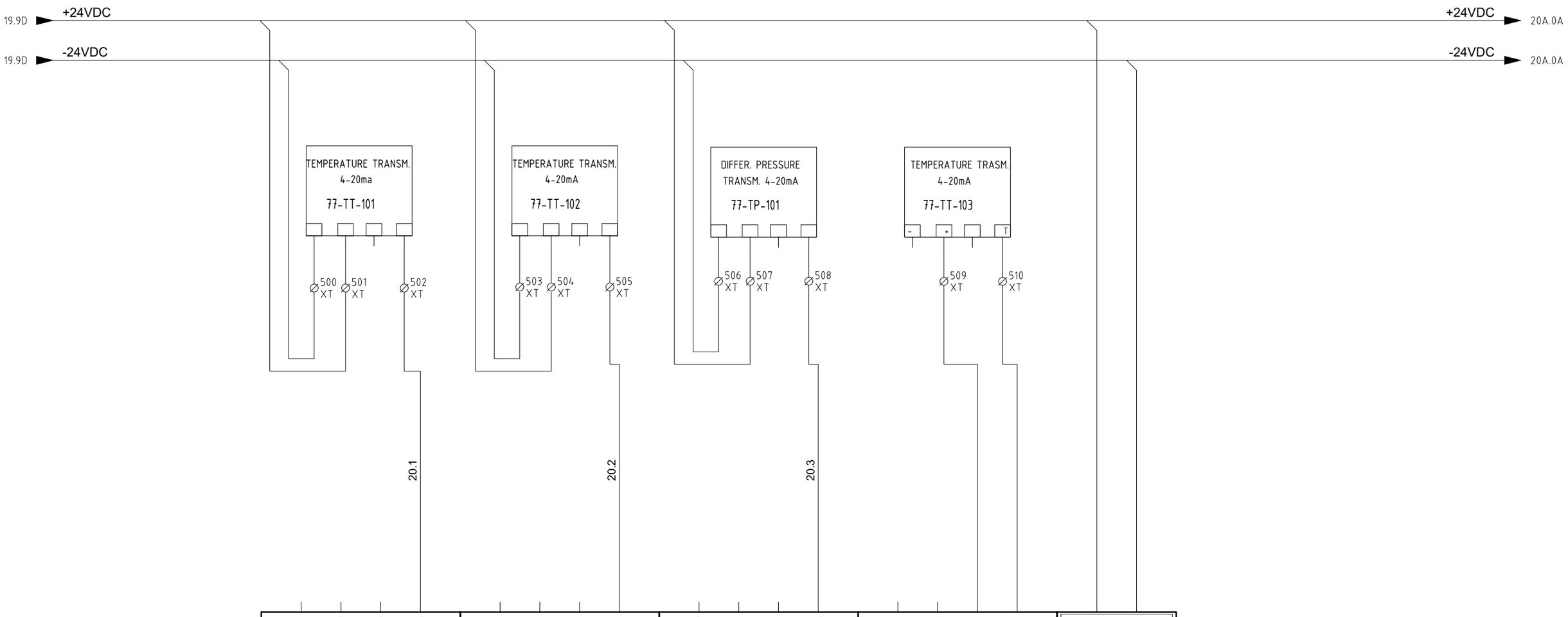
BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

AUX SECTION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 19
F.S. 20



1 5 9 13	2 6 10 14	3 7 11 15	4 8 12 16	L+ M
AI0.0	AI0.1	AI0.2	AI0.3	
CPU: QUADRO GENERALE MOD. : 8	CPU: QUADRO GENERALE MOD. : 8	CPU: QUADRO GENERALE MOD. : 8	CPU: QUADRO GENERALE MOD. : 8	CPU: QUADRO GENERALE MOD. : 8
Name: A7 / Sheet:	Name: A7 / Sheet:	Name: A7 / Sheet:	Name: A7 / Sheet:	Name: A7 / Sheet:
77-TT-101 TEMPERATURE TRANSMITTER	77-TT-102 TEMPERATURE TRANSMITTER	77-PT-101 DIFFERENTIAL PRESSURE TRANSMITTER SIGNAL	77-TT-103 DUCT TEMPERATURE TRASMITTER	

REV.	MODIFICA	DATA	FIRMA
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FG. 20
F.S. 20A

20.9A +24VDC

20.9A -24VDC

+24VDC 20B.0A

-24VDC 20B.0A

VSD 1 MODULATION VSD 1 modulation		VSD 2 MODULATION VSD 2 modulation		HSS-77-101 MODULATION SIGNAL EH-001 Modulation Signal		HSS-77-102 MODULATION SIGNAL EH-002 Modulation Signal			
Name: A8	Sheet:	Name: A8	Sheet:	Name: A8	Sheet:	Name: A8	Sheet:	Name: A8	Sheet:
CPU: QUADRO GENERALE MOD. : 10		CPU: QUADRO GENERALE MOD. : 10		CPU: QUADRO GENERALE MOD. : 10		CPU: QUADRO GENERALE MOD. : 10		CPU: QUADRO GENERALE MOD. : 10	
AQ0.0		AQ0.1		AQ0.2		AQ0.3			
9 1 5 13		10 2 6 14		11 3 7 15		12 4 8 16		L+ M	

7.5B 7.6

7.5B 7.7

9.6B 9.7

9.6B 9.8

20A.1 21.7B

20A.2 21.7B

20A.3 22.7C

20A.4 22.7C

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B-100 HV SWITCH ROOM

AUX SECTION

ROSETTI MARINO ALEXSISTEMI spa

1724000049-HV-DA-00026

F.G. 20A
F.S. 20B

20A.9A +24VDC

20A.9A -24VDC

+24VDC 20C.0A

-24VDC 20C.0A

SPARE	SPARE	SPARE	SPARE	
Name: A9 / Sheet:	Name: A9 / Sheet:	Name: A9 / Sheet:	Name: A9 / Sheet:	Name: A9 / Sheet:
CPU: QUADRO GENERALE MOD. : 11	CPU: QUADRO GENERALE MOD. : 11	CPU: QUADRO GENERALE MOD. : 11	CPU: QUADRO GENERALE MOD. : 11	CPU: QUADRO GENERALE MOD. : 11
AQ1.0	AQ1.1	AQ1.2	AQ1.3	
9 1 5 13	10 2 6 14	11 3 7 15	12 4 8 16	L+ M

REV.	MODIFICA	DATA	FIRMA		
05	ACCEPT FOR CONSTRUCTION	24/01/25		DATA	15/04/2024
04	ACCEPT FOR CONSTRUCTION	10/12/24		DISEGN.	F.M.
03	ISSUE FOR APPROVAL	05/09/24		VISTO	S.S.
				APPR.	M.G.

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CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

AUX SECTION

ROSETTI MARINO ALEXSISTEMI spa

1724000049-HV-DA-00026

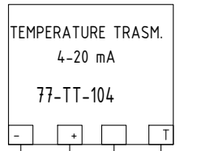
FG. 20B
F.S. 20C

20B.9A +24VDC

20B.9A -24VDC

+24VDC 20D.0E

-24VDC 20D.0F



1 5 9 13	2 6 10 14	3 7 11 15	4 8 12 16	L+ M
AI1.0	AI1.1	AI1.2	AI1.3	
CPU: QUADRO GENERALE MOD. : 12	CPU: QUADRO GENERALE MOD. : 12	CPU: QUADRO GENERALE MOD. : 12	CPU: QUADRO GENERALE MOD. : 12	CPU: QUADRO GENERALE MOD. : 12
Name: A10 / Sheet:	Name: A10 / Sheet:	Name: A10 / Sheet:	Name: A10 / Sheet:	Name: A10 / Sheet:
77-TT-104 DUCT TEMPERATURE TRANSMITTER	SPARE	SPARE	SPARE	

REV.	MODIFICA	DATA	FIRMA
05	ACCEPT FOR CONSTRUCTION	24/01/25	
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B-100 HV SWITCH ROOM
AUX SECTION

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1724000049-HV-DA-00026

F.G. 20C

F.S. 20D

A1

SIEMENS

SIMATIC HMI

TOUCH

12"

X1 P1
PROFINET

X1 P2
PROFINET

X2
PROFIBUS DP

X60
Mini USB - Type B

X61
USB - Type A

X62
USB - Type A

X90 OUT
Line OUT

X90 IN
Line IN

CABLE 1

CABLE 2

CABLE 3

CABLE 4

X1 P1 R
PROFINET

X1 P2 R
PROFINET

X1 P1 R
PROFINET

X1 P2 R
PROFINET

TO PAGE
20E

D1

D2

SIEMENS

RUN

SIMATIC
S7-1500

ESC OK

L+
M
L+
M

DC 24V (X80)

DC 24V (X80)
L+ 1
M 2

FG

20C.9A +24VDC

20C.9A -24VDC

+24VDC 20E.0E

-24VDC 20E.0F

REV.	MODIFICA	DATA	FIRMA
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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

PLC ARCHITECTURE

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 20D
F.S. 20E

FROM PAGE 40

CABLE 4

CABLE 1

CABLE 2

MODBUS TCP/P TO CLIENT

RJ45 CONNECTION IN TERMINAL STRIP

1	TD	PROFINET IO - Port 1 RJ45
2	TD N	
3	RD	
4	GND	
5	GND	
6	RD N	
7	GND	
8	GND	

1	TD	PROFINET IO - Port 2 RJ45
2	TD N	
3	RD	
4	GND	
5	GND	
6	RD N	
7	GND	
8	GND	

1L+	DC 24V
2L+	
1M	
2M	

A2 A3 A4 A5 A6 A7 A8 A9 A10

SIEMENS

BA 2xRJ45

SIMATIC ET 200SP

IM 155-6 PN/2 HF

6ES7155-6AU01-0CN0

MAC ADDRESS

DI 16x24VDC ST	DI 16x24VDC ST	DI 16x24VDC ST	DQ 16x24VDC/0,5A ST	AI 4xU/I 2-wire ST	AQ 4xU/I ST	AQ 4xU/I ST	AI 4xU/I 2-wire ST	
6ES7131-6BH01-0BA0	6ES7131-6BH01-0BA0	6ES7131-6BH01-0BA0	6ES7132-6BH01-0BA0	6ES7134-6HD01-0BA1	6ES7135-6HD00-0BA1	6ES7135-6HD00-0BA1	6ES7134-6HD01-0BA1	

A11

SIEMENS

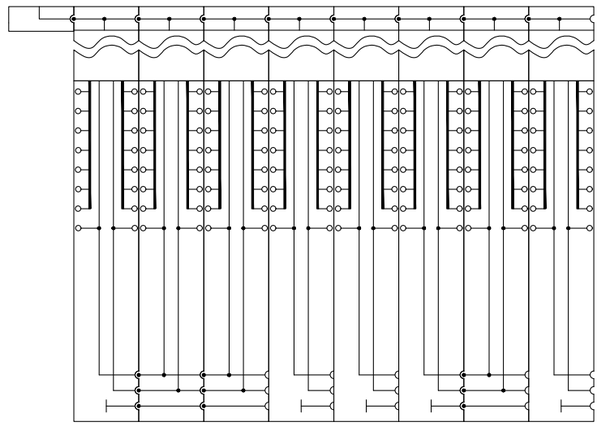
SCALANCE XC208

208-0BA00-2AC2

P1	LAN	
P2	LAN	
P3	LAN	
P4	LAN	
P5	LAN	
P6	LAN	
P7	LAN	
P8	LAN	

1	F1	
2	F2	

1	L1+	DC 24V
2	M1	
3	M2	
4	L2+	



20D.9E +24VDC → +24VDC 21.0A

20D.9F -24VDC → -24VDC 21.0A

REV.	MODIFICA	DATA	FIRMA
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CLIENT: CROSSWIND

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B-100 HV SWITCH ROOM

PLC ARCHITECTURE

ROSETTI MARINO ALEXSISTEMI spa

1724000049-HV-DA-00026

F.G. 20E

F.S. 21

EH-001
MODULATION

20E.9E +24VDC → +24VDC 22.0A

20E.9F -24VDC → -24VDC 22.0A

21.1

21.2

20A.5E

20A.5E

20A.1

20A.2

KA21.1 A1 A2

17.2B 11 12 14 21 22 24 31 32 34 41 42 44

1/L1

HR-1A.

9 AL
8 A2
7 A2
6 A1
5 D1
4 US
3 A2

GRP 3

2/T1

1/L1

HR-1B.

9 AL
8 A2
7 A2
6 A1
5 D1
4 US
3 A2

GRP 3

2/T1

1/L1

HR-1C.

19 AL
18 AL
17 D17
16 A2
15 A-
14 A+
13 D13
12 US
11 A2

GRM 1

2/T1

3/L2

21.4

F21.1 1 2

8.9A RA

REV.	MODIFICA	DATA	FIRMA
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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

ELECTRICAL HEATER MODULATION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

F.G. 21
F.S. 22

EH-002
MODULATION

21.9A +24VDC → /./

21.9A -24VDC → /./

22.1

22.2

1/L1

HR-2A.

9 AL
8 A2
7 A2
6 A1
5 D1
4 US
3 A2

GRP 3

2/T1

1/L1

HR-2B.

9 AL
8 A2
7 A2
6 A1
5 D1
4 US
3 A2

GRP 3

2/T1

1/L1

HR-2C.

19 AL
18 AL
17 D17
16 A2
15 A-
14 A+
13 D13
12 US
11 A2

GRM 1

2/T1

20A.6E

20A.7E

20A.3

20A.4

KA22.1 A1 A2

17.3B 11 12 14 21 22 24 31 32 34 41 42 44

3/L2

22.20 1

FU22.1

2

9A.9A RB

REV.	MODIFICA	DATA	FIRMA
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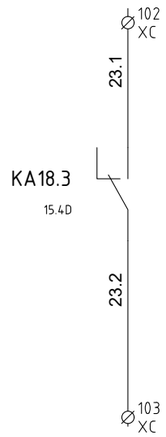
BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
ELECTRICAL HEATER MODULATION

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 22
F.S. 23

AVAILABLE SIGNAL
GENERAL FAULT
TO SIS



CLOSE= NORMAL
OPEN= MALFUNCTION

SIGNAL TO SIS
B400-SIS-0901

REV.	MODIFICA	DATA	FIRMA
05	ACCEPT FOR CONSTRUCTION	24/01/25	
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CLIENT:
CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
AVAILABLE SIGNAL

ROSETTI MARINO
ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 23
F.S. 23A

HFD-77001
CLOSED FEEDBACK

HFD-77002
CLOSED FEEDBACK

HFD-77003
CLOSED FEEDBACK

HFD-77001
OPEN FEEDBACK

HFD-77002
OPEN FEEDBACK

HFD-77003
OPEN FEEDBACK

+24VDC

+24VDC

400 XFD
402 XFD
404 XFD
406 XFD
408 XFD
410 XFD

HFD-77001
HFD-77001
HFD-77002
HFD-77002
HFD-77003
HFD-77003

11 12 13 14

401 XFD
403 XFD
405 XFD
407 XFD
409 XFD
411 XFD

KA23A.1 A1 A2
KA23A.2 A1 A2
KA23A.3 A1 A2
KA23A.4 A1 A2
KA23A.5 A1 A2
KA23A.6 A1 A2

-24VDC

-24VDC

16.7B 11 12 14 22 21 24
17.1B 11 12 14 22 21 24
17.2B 11 12 14 22 21 24
17.3B 11 12 14 22 21 24
17.4B 11 12 14 22 21 24
17.4B 11 12 14 22 21 24
23.2B 11 12 14 22 21 24
23.4B 11 12 14 22 21 24
23.5B 11 12 14 22 21 24
23.7B 11 12 14 22 21 24
23.4D 11 12 14 22 21 24
23.5D 11 12 14 22 21 24

REV.	MODIFICA	DATA	FIRMA
05	ACCEPT FOR CONSTRUCTION	24/01/25	
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DATA	15/04/2024
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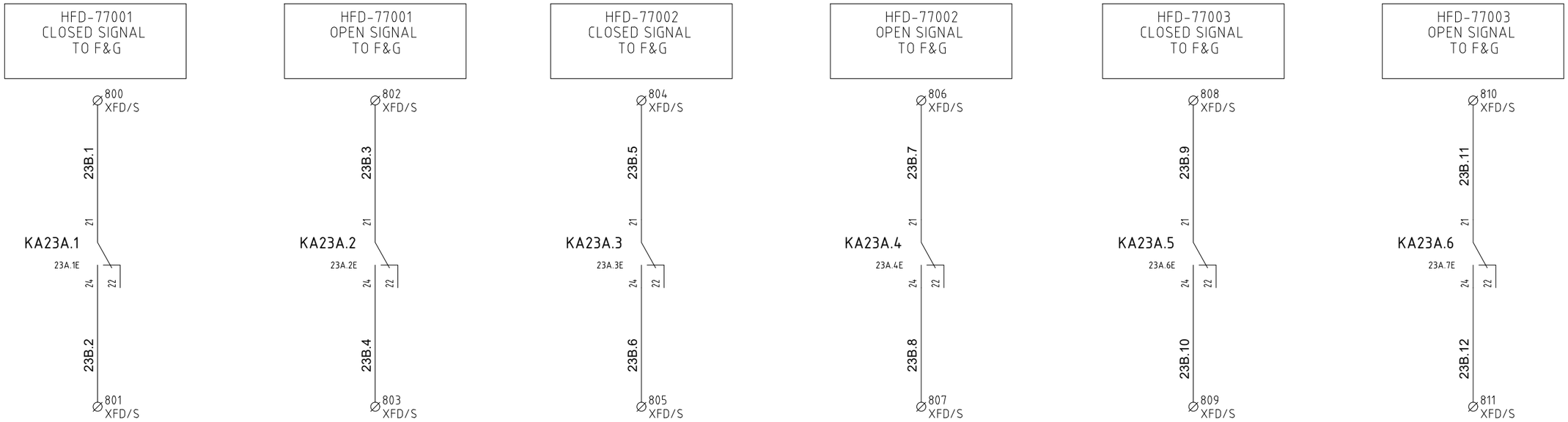
CLIENT:
CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
FIRE DAMPER

ROSETTI MARINO
ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 23A
F.S. 23B



REV.	MODIFICA	DATA	FIRMA
05	ACCEPT FOR CONSTRUCTION	24/01/25	
04	ACCEPT FOR CONSTRUCTION	10/12/24	
03	ISSUE FOR APPROVAL	05/09/24	

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CLIENT:
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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

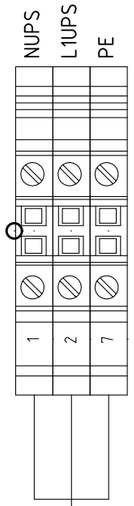
FIRE DAMPER

ROSETTI MARINO | ALEXSISTEMI spa

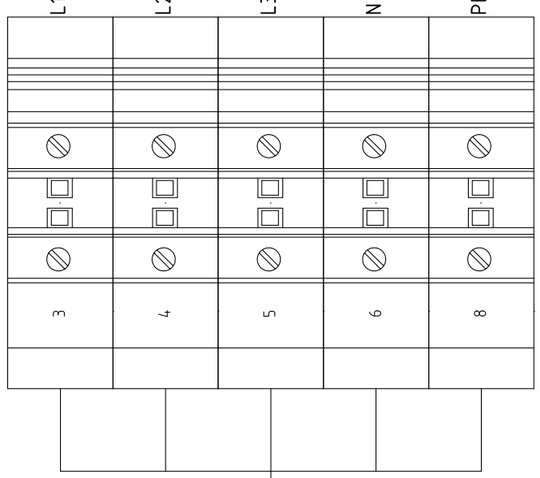
1724000049-HV-DA-00026

FG. 23B
F.S. 24

+QG - XPS
POWER SUPPLY

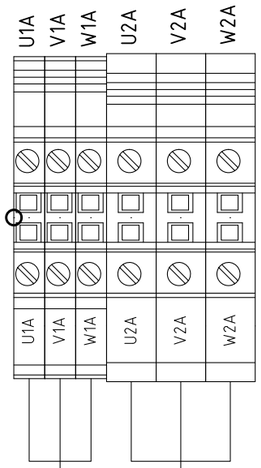


230V 1F + N + PE
50Hz
FROM
AC UPS-PAS DB
3G4
DP-200F3

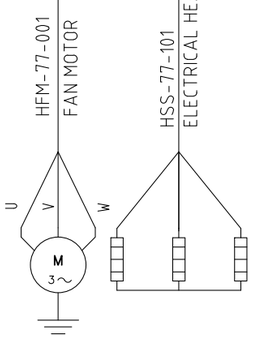


400V 3F +N + PE
50Hz
FROM
LV SWITCHGEAR
5G25
SG-200N1

+QG - XM1
POWER PRESS FAN 1

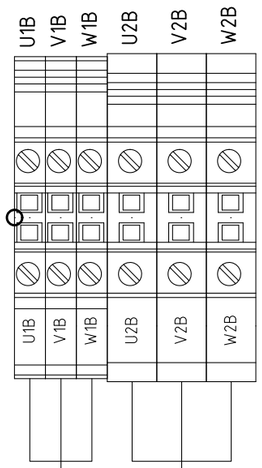


4G2.5 FG16OM16
HFM-77-001
FAN MOTOR

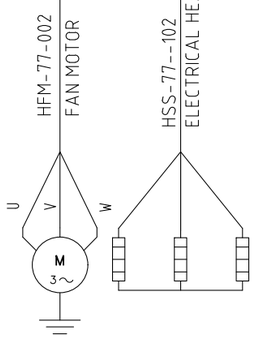


4G6 FG16OM16
HSS-77-101
ELECTRICAL HEATER

+QG - XM2
POWER PRESS FAN 2

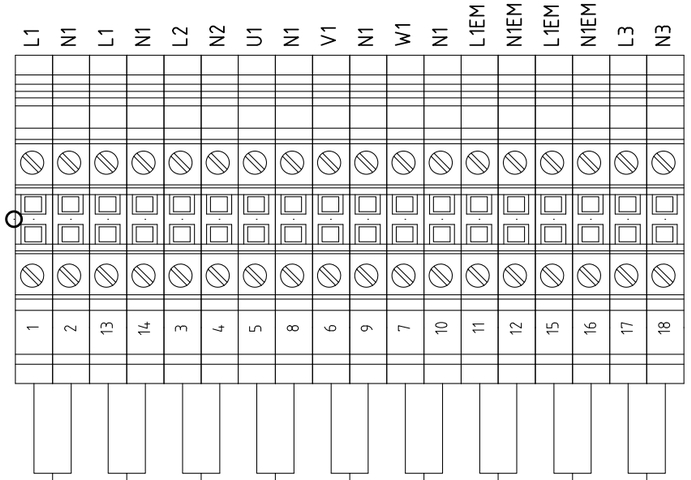


4G2.5 FG16OM16
HFM-77-002
FAN MOTOR



4G6 FG16OM16
HSS-77--102
ELECTRICAL HEATER

+QG - XAC
ACCESSORIES



3G2.5 MODULE LIGHT
LIGHT

3G2.5 MODULE LIGHT
LIGHT

3G3 MODULE SOCKET
SOCKET

3G2.5 SPACE HEATER
HSS-77-001

3G2.5 SPACE HEATER
HSS-77-002

3G2.5 SPACE HEATER
HSS-77-003

3G2.5 MODULE EM LIGHT
EM. LIGHT

3G2.5 MODULE EM LIGHT
EM. LIGHT

3G2.5 HEATING CABLE
HHT-77-001

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BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

TERMINAL STRIP

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 24
F.S. 25

+QG - XC
Client

SHUTDOWN FROM SIS

LIGHT BUTTON

HVAC MALF. SIGNAL TO SIS

LIGHT BUTTON

+QG - XPF1
AUX PRES FAN 1

+24VDC 11.1 23.3 23.2 +24VDC 6C.4 +24VDC 6C.4
100 101 102 103 104 105 106 107

11.3 11.4 +24VDC 12.3 +24VDC 12.7 23.5 B +24VDC 16.2 +24VDC 16.3 A.A B.A +24VDC 12.1 +24VDC 12.2
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217

3G1.5 FG16OM16 — PTC MOTOR PROTECTION — TE-77-101
3G1.5 FG16OM16 — EMERGENCY STOP BUTTON — HPB-77-101
3G1.5 FG16OM16 — ELECTRICAL HEATER THERMOSTATE PROTECTION — TSH/HH-77-101
3G1.5 FG16OM16 — MOTOR FAN ELECTRICAL HEATER — HSS-77-103
2X1.5 FG16OM16 — FAN FLOW SWITCH — PDSL-77-101
2X1.5 FG16OM16 — FILTER FLOW SWITCH — PDT-77-101
3G2.5 — POWER SUPPLY
4X1.5 — SIGNAL FEEDBACK

HDZ-77-101: 1 2 (240V) S1 S2 S3 S4 S5 S6 ZSC <5° ZSO >85°

+QG - XPF2
AUX PRES FAN 2

11.6 11.7 +24VDC 12.4 +24VDC 13.1 23.6 B +24VDC 16.4 +24VDC 16.5 A.B B.B +24VDC 14.6 +24VDC 14.7
300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317

3G1.5 FG16OM16 — PTC MOTOR PROTECTION — TE-77-102
3G1.5 FG16OM16 — EMERGENCY STOP BUTTON — HPB-77-102
3G1.5 FG16OM16 — ELECTRICAL HEATER THERMOSTATE PROTECTION — TSH/HH-77-102
3G1.5 FG16OM16 — MOTOR FAN ELECTRICAL HEATER — HSS-77-104
2X1.5 FG16OM16 — FAN FLOW SWITCH — PDSL-77-102
2X1.5 FG16OM16 — FILTER FLOW SWITCH — PDT-77-102
3G2.5 — POWER SUPPLY
4X1.5 — SIGNAL FEEDBACK

HDZ-77-102: 1 2 (240V) S1 S2 S3 S4 S5 S6 ZSC <5° ZSO >85°

+QG - XT

+24VDC -24VDC 20.1 +24VDC -24VDC 20.2 +24VDC -24VDC 20.3 20.13 20.15 20C.17 20C.19
500 501 502 503 504 505 506 507 508 509 510 511 512

3X1.5+Sh — TEMPERATURE TRANSMITTER BY CLIENT — 77-TT-101
3X1.5+Sh — TEMPERATURE TRANSMITTER BY CLIENT — 77-TT-102
3X1.5+Sh — DIFFERENTIAL PRESSURE TRANSM BY CLIENT — 77-TP-101
2X1.5+Sh — DUCT TEMPERATURE TRASMITTER — 77-TT-103
TBA
2X1.5+Sh — DUCT TEMPERATURE TRASMITTER — 77-TT-104
TBA

REV.	MODIFICA	DATA	FIRMA
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CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
TERMINAL STRIP

ROSETTI MARINO — ALEXSISTEMI spa

1724000049-HV-DA-00026

F.G. 25
F.S. 25A

+QG - XFD
FIRE DAMPER

+24VDC 16.8 | +24VDC 17.1 | +24VDC 17.2 | +24VDC 17.3 | +24VDC 17.4 | +24VDC 17.5

400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411

4X1.5 FEEDBACK SIGNAL

HFD-77001
1 2 | S1 S2 S3 S4 S5 S6
240V ZSC <5° ZSO >85°

HFD-77002
1 2 | S1 S2 S3 S4 S5 S6
240V ZSC <5° ZSO >85°

HFD-77003
1 2 | S1 S2 S3 S4 S5 S6
240V ZSC <5° ZSO >85°

+QG - XFD/S
FIRE DAMPER SIGNAL

23B.1 | 23B.6 | 23B.3 | 23B.10 | 23B.5 | 23B.14 | 23B.7 | 23B.18 | 23B.9 | 23B.22 | 23B.11 | 23B.26

800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811

HFD-77001 CLOSED SIGNAL
HFD-77002 CLOSED SIGNAL
HFD-77003 CLOSED SIGNAL

HFD-77001 OPEN SIGNAL
HFD-77002 OPEN SIGNAL
HFD-77003 OPEN SIGNAL

X3
RJ45

RJ45 CLIENT CONNECTION

MODBUS TCP/IP
CONNECTION
FROM
B400-NET-001

REV.	MODIFICA	DATA	FIRMA	APPR.	
05	ACCEPT FOR CONSTRUCTION	24/01/25		DATA	15/04/2024
04	ACCEPT FOR CONSTRUCTION	10/12/24		DISEGN.	F.M.
03	ISSUE FOR APPROVAL	05/09/24		VISTO	S.S.

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CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM
TERMINAL STRIP

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 25A
F.S. 26

Nome/Item	Tipo/Type	Descrizione/Description	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
				Hq	4	2
	R5CPFE6100	Compensation panel for modular cabinet height 100 width 600	dkc	Hq	4	2
	R5CPME6200	Solid modular door for cabinet width 600, door height 200	dkc	Hq	4	2
	RZPCE6200	modular wiring panel L.600 H.200	dkc			2
	R5CPME6600	Solid modular cabinet door 600 width, 600 door height	dkc	Hq	4	2
	RZPCE6600	Modular wiring panel L.600 H.600	dkc			2
	R5CPME6800	Solid modular cabinet door width 600, door height 800	dkc	Hq	4	2
	RZPCE6800	Modular wiring panel L.600 H.800	dkc			2
	R5CQE1866R	Cabinet comp. 1800x600x600 back	dkc	Hq	4	2
	R5LE1862	SIDE DOOR FOR CQE PANEL DEPTH 600 HEIGHT 1800	dkc			2
	R1ZCOR1	Modular plinth corner H100 4pcs	dkc			2
	R1ZPRO601	Front/side flange H100 length 600	dkc			3
	R5TOE60	Rebate crossbar for modular doors, width 600	dkc			5
	RZMVE18	Vertical support height 1800	dkc			2
	RZA33	Lifting Ring	dkc			3
	RZKE65	CQE cabinet union kit	dkc			2
	rzkre65	Flat Cooling Kit for CQE Cabinets	dkc			2
	rzksre65	L-shaped union reinforcement kit for CQE cabinets	dkc			2
	RZSOE545	HORIZONTAL SUPPORT TOTAL CABINET DEPTH 600	dkc			5
	RZDOE6545	HORIZONTAL PARTITION TOTAL CABINET WIDTH 600 DEPTH 600	dkc			5
	RZDVE1860	Vertical partition for CQE 1800x600	dkc			2
32 x 15	534-2	DIN rail EN60715 32x15x1.5 closed	Arnocanali	Hq	5	3.98
32 x 15	PD32Z	Sendzimir rail 32x15x9 closed	Canloplast	Hq	5	0.41
40 x 100	E35	can.cabl.40x100 sg	Canloplast	Hq	5	9.79
60 x 100	E184	Can.Cabl.60x100 SG S/4	Canloplast	Hq	5	0.84
77-TT-103				Hq		1
77-TT-104				Hq		1
A1	6AV2124-0MC01-0AX0	SIMATIC HMI TP1200 Comfort. Touch control, 12" widescreen display	siemens	Hq	20d	1
A2	6ES7155-6AU01-0CN0	IM 155-6 PN HF/2 V4.2 Interface Module	siemens	Hq	20th	1
	6ES7193-6AR00-0AA0	BA 2×RJ45 (PROFINET busadapter with standard Ethernet socket for IM-PN)	siemens			1
A3	6ES7131-6BH01-0BA0	Digital Input Module: 16x24VDC ST	siemens	Hq	20th	1
	6ES7193-6BP00-0DA0	Type A0 BU, 16 push-in, 2 power terminals. Separate (digital/analogue, max. 24VDC/10A)	siemens			1
A4	6ES7131-6BH01-0BA0	Digital Input Module: 16x24VDC ST	siemens	Hq	20th	1
	6ES7193-6BP00-0BA0	Type A0 BU, 16 push-in, 2 power terminals. Separate (digital/analogue, max. 24VDC/10A)	siemens			1
A5	6ES7131-6BH01-0BA0	Digital Input Module: 16x24VDC ST	siemens	Hq	20th	1
	6ES7193-6BP00-0BA0	Type A0 BU, 16 push-in, 2 power terminals. Separate (digital/analogue, max. 24VDC/10A)	siemens			1
A6	6ES7132-6BH01-0BA0	Digital Output Module: DQ 16x24VDC/0.5A ST	siemens	Hq	20th	1
	6ES7193-6BP00-0DA0	Type A0 BU, 16 push-in, 2 power terminals. Separate (digital/analogue, max. 24VDC/10A)	siemens			1
A7	6ES7134-6HD01-0BA1	Analog Input Module: AI 4XU/I 2-Wire ST	siemens	Hq	20th	1
	6ES7193-6BP00-0DA0	Type A0 BU, 16 push-in, 2 power terminals. Separate (digital/analogue, max. 24VDC/10A)	siemens			1
A8	6ES7135-6HD00-0BA1	Analog Output Module: AQ 4XU/I ST	siemens	Hq	20th	1
	6ES7193-6BP00-0DA0	Type A0 BU, 16 push-in, 2 power terminals. Separate (digital/analogue, max. 24VDC/10A)	siemens			1
A9	6ES7135-6HD00-0BA1	Analog Output Module: AQ 4XU/I ST	siemens	Hq	20th	1
	6ES7193-6BP00-0BA0	Type A0 BU, 16 push-in, 2 power terminals. Separate (digital/analogue, max. 24VDC/10A)	siemens			1
A10	6ES7134-6HD01-0BA1	Analog Input Module: AI 4XU/I 2-Wire ST	siemens	Hq	20th	1

REV.	MODIFICA	DATA	FIRMA
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04	ACCEPT FOR CONSTRUCTION	10/12/24	
03	ISSUE FOR APPROVAL	05/09/24	

DATA 15/04/2024
DISEGN. F.M.
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CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

MATERIAL LIST
LISTA METERIALI

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 26
F.S. 27

Nome/Item	Tipo/Type	Descrizione/Description	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
A10	*6ES7193-6BP00-0DA0*	*Type A0 BU, 16 push-in, 2 power terminals. Separate (digital/analogue, max. 24VDC/10A)*	*siemens*	*Hq*	*20th*	1
A11	*6GK5208-0BA00-2AC2*	*XC208 Managed Switch with 8 RJ45 100Mbit/s Ports*	*siemens*	*Hq*	*20th*	1
D1	*6ES7513-1RM03-0AB0*	*CPU 1513R-1PN*	*siemens*	*Hq*	*20d*	1
	6ES7954-8LF02-0AA0	*Memory card, 24 MB*	*siemens*			1
	6ES7590-1AB60-0AA0	*Profile rail S7-1500, 160 mm*	*siemens*			1
D2	*6ES7513-1RM03-0AB0*	*CPU 1513R-1PN*	*siemens*	*Hq*	*20d*	1
	6ES7954-8LF02-0AA0	*Memory card, 24 MB*	*siemens*			1
	6ES7590-1AB60-0AA0	*Profile rail S7-1500, 160 mm*	*siemens*			1
EM. LIGHT				*Hq*		1
EM. LIGHT				*Hq*		1
EPB-003	*3su1900-0dy30-0aa0*	*Protective collar for merge button, plastic, yellow, 22mm hole*	*siemens*	*Hq*	*6th*	1
	3SU1001-1HB20-0AA0	*Emergency stop mushroom pushbutton, illuminatable, twist release, 40 mm diameter, 2 positions*	*siemens*			1
	3su1500-0aa10-0aa0	*Support without module. plastic*	*siemens*			1
F1		*docker*		*Hq*	*6b*	1
F2		*docker*		*Hq*	*6b*	1
F3		*docker*		*Hq*	*6b*	1
F4		*docker*		*Hq*	*6b*	1
F21.1		*Single-pole fuse*		*Hq*	21	1
FU22.1		*Single-pole fuse*		*Hq*	22	1
GD1	*6EP1333-3BA10*	*Sitop PSU200M single-phase and two-phase, DC 24V/5A. Stabilized power supply Input: 120-230/230-500V AC, Output: DC 24V/5A*	*siemens*	*Hq*	10	1
HDZ-77-101		*Single-phase alternating current motor*		*Hq*	8	1
HDZ-77-101		*NC Limit Switch*		*Hq*	12	1
HDZ-77-101		*Limit Switch: No*		*Hq*	12	1
HDZ-77-102		*Single-phase alternating current motor*		*Hq*	*9a*	1
HDZ-77-102		*NC Limit Switch*		*Hq*	14	1
HDZ-77-102		*Limit Switch: No*		*Hq*	14	1
HFD-77001		*NC Limit Switch*		*Hq*	*23rd*	1
HFD-77001		*Limit Switch: No*		*Hq*	*23rd*	1
HFD-77001				*Hq*	*25th*	1
HFD-77002		*NC Limit Switch*		*Hq*	*23rd*	1
HFD-77002		*Limit Switch: No*		*Hq*	*23rd*	1
HFD-77002				*Hq*	*25th*	1
HFD-77003		*NC Limit Switch*		*Hq*	*23rd*	1
HFD-77003		*Limit Switch: No*		*Hq*	*23rd*	1
HFD-77003				*Hq*	*25th*	1
HHT-77-001				*Hq*		1
HL6A.1	*3SU1001-6AA60-0AA0*	*Indicator light with smooth lens, white*	*siemens*	*Hq*	*6th*	1
	3SU1401-1BH60-1AA0	*White LED module for mounting on front plate, 24 ... 240 V AC/DC. Screw terminals*	*siemens*			1
	3su1500-0aa10-0aa0	*Support without module. plastic*	*siemens*			1
HL8.1	*3SU1001-6AA60-0AA0*	*Indicator light with smooth lens, white*	*siemens*	*Hq*	8	1
	3SU1401-1BH60-1AA0	*White LED module for mounting on front plate, 24 ... 240 V AC/DC. Screw terminals*	*siemens*			1
	3su1500-0aa10-0aa0	*Support without module. plastic*	*siemens*			1
HL9A.1	*3SU1001-6AA60-0AA0*	*Indicator light with smooth lens, white*	*siemens*	*Hq*	*9a*	1
	3SU1401-1BH60-1AA0	*White LED module for mounting on front plate, 24 ... 240 V AC/DC. Screw terminals*	*siemens*			1

REV.	MODIFICA	DATA	FIRMA
05	ACCEPT FOR CONSTRUCTION	24/01/25	
04	ACCEPT FOR CONSTRUCTION	10/12/24	
03	ISSUE FOR APPROVAL	05/09/24	

DATA 15/04/2024
DISEGN. F.M.
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APPR. M.G.

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CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

MATERIAL LIST
LISTA METERIALI

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 27
F.S. 28

Nome/Item	Tipo/Type	Descrizione/Description	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
HL9A.1	*3su1500-0aa10-0aa0*	*Support without module. plastic*	*siemens*	*Hq*	*9a*	1
HL10.1	*3SU1001-6AA60-0AA0*	*Indicator light with smooth lens, white*	*siemens*	*Hq*	10	1
	3SU1401-1BH60-1AA0	*White LED module for mounting on front plate, 24 ... 240 V AC/DC. Screw terminals*	*siemens*			1
	3su1500-0aa10-0aa0	*Support without module. plastic*	*siemens*			1
HR-1A				*Hq*	7	1
HR-1A.	*GRP-H-25-48-D-1-0000*	*Static power slave unit for load control, logic/analog control. Maximum current 25A.*	*Gefran*	*Hq*	21	1
HR-1B				*Hq*	7	1
HR-1B.	*GRP-H-25-48-D-1-0000*	*Static power slave unit for load control, logic/analog control. Maximum current 25A.*	*Gefran*	*Hq*	21	1
HR-1C				*Hq*	7	1
HR-1C.	*GRM-H-25-48-AN-OL-00000*	*Static power master unit for load control, logic/analog control. Maximum current 25A.*	*Gefran*	*Hq*	21	1
HR-2A				*Hq*	9	1
HR-2A.	*GRP-H-25-48-D-1-0000*	*Static power slave unit for load control, logic/analog control. Maximum current 25A.*	*Gefran*	*Hq*	22	1
HR-2B				*Hq*	9	1
HR-2B.	*GRP-H-25-48-D-1-0000*	*Static power slave unit for load control, logic/analog control. Maximum current 25A.*	*Gefran*	*Hq*	22	1
HR-2C				*Hq*	9	1
HR-2C.	*GRM-H-25-48-AN-OL-00000*	*Static power master unit for load control, logic/analog control. Maximum current 25A.*	*Gefran*	*Hq*	22	1
HSS-77-001				*Hq*		1
HSS-77-002				*Hq*		1
HSS-77-003				*Hq*		1
KA11.1	553490240040	*industrial relay. (A): 7 No. of contacts: 4 Contact configuration: CO Contact material: AGNI Electrical connection: Push-in connection Power supply: DC volts DC: 24 V. Non-polarized monostable Protection category: RT I. Option*	*Finder*	*Hq*	11	1
	9404spa	*Socket with socket clamps Mounting: Blind bar 35 mm (H): 10 Degree of protection: IP 20 Accessories: metal or plastic jumper, 6-pole comb, timer modules, signaling modules and EMC*	*Finder*			1
	094913	*Latching and unhooking jumper*	*Finder*			1
KA11A.1	*9404spa*	*Socket with socket clamps Mounting: Blind bar 35 mm (H): 10 Degree of protection: IP 20 Accessories: metal or plastic jumper, 6-pole comb, timer modules, signaling modules and EMC*	*Finder*	*Hq*	*11th*	1
	553490240040	*industrial relay. (A): 7 No. of contacts: 4 Contact configuration: CO Contact material: AGNI Electrical connection: Push-in connection Power supply: DC volts DC: 24 V. Non-polarized monostable Protection category: RT I. Option*	*Finder*			1
	094913	*Latching and unhooking jumper*	*Finder*			1
KA11A.2	202290244000	*Modular Pulse Relay No. of contacts: 2 Contact configuration: No Contact material: AGSNo2 Mounting: DIN rail Function: Mechanical Sizing current: 16 A. Width in subdivision units: 1 Type of supply voltage*	*Finder*	*Hq*	*11th*	1
KA18.1	553490240040	*industrial relay. (A): 7 No. of contacts: 4 Contact configuration: CO Contact material: AGNI Electrical connection: Push-in connection Power supply: DC volts DC: 24 V. Non-polarized monostable Protection category: RT I. Option*	*Finder*	*Hq*	18	1
	9404spa	*Socket with socket clamps Mounting: Blind bar 35 mm (H): 10 Degree of protection: IP 20 Accessories: metal or plastic jumper, 6-pole comb, timer modules, signaling modules and EMC*	*Finder*			1
	094913	*Latching and unhooking jumper*	*Finder*			1
KA18.2	553490240040	*industrial relay. (A): 7 No. of contacts: 4 Contact configuration: CO Contact material: AGNI Electrical connection: Push-in connection Power supply: DC volts DC: 24 V. Non-polarized monostable Protection category: RT I. Option*	*Finder*	*Hq*	18	1
	9404spa	*Socket with socket clamps Mounting: Blind bar 35 mm (H): 10 Degree of protection: IP 20 Accessories: metal or plastic jumper, 6-pole comb, timer modules, signaling modules and EMC*	*Finder*			1

REV.	MODIFICA	DATA	FIRMA
05	ACCEPT FOR CONSTRUCTION	24/01/25	
04	ACCEPT FOR CONSTRUCTION	10/12/24	
03	ISSUE FOR APPROVAL	05/09/24	

DATA 15/04/2024
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CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

MATERIAL LIST
LISTA METERIALI

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 28
F.S. 29

Nome/Item	Tipo/Type	Descrizione/Description	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
KA18.2	094913	*Latching and unhooking jumper*	*Finder*	*Hq*	18	1
KA18.3	553490240040	*industrial relay. (A): 7 No. of contacts: 4 Contact configuration: CO Contact material: AGNI Electrical connection: Push-in connection Power supply: DC volts DC: 24 V. Non-polarized monostable Protection category: RT I. Option*	*Finder*	*Hq*	18	1
	9404spa	*Socket with socket clamps Mounting: Blind bar 35 mm (H): 10 Degree of protection: IP 20 Accessories: metal or plastic jumper, 6-pole comb, timer modules, signaling modules and EMC*	*Finder*			1
	094913	*Latching and unhooking jumper*	*Finder*			1
KA18.4	*9404spa*	*Socket with socket clamps Mounting: Blind bar 35 mm (H): 10 Degree of protection: IP 20 Accessories: metal or plastic jumper, 6-pole comb, timer modules, signaling modules and EMC*	*Finder*	*Hq*	18	1
	553490240040	*industrial relay. (A): 7 No. of contacts: 4 Contact configuration: CO Contact material: AGNI Electrical connection: Push-in connection Power supply: DC volts DC: 24 V. Non-polarized monostable Protection category: RT I. Option*	*Finder*			1
	094913	*Latching and unhooking jumper*	*Finder*			1
KA18.5	553490240040	*industrial relay. (A): 7 No. of contacts: 4 Contact configuration: CO Contact material: AGNI Electrical connection: Push-in connection Power supply: DC volts DC: 24 V. Non-polarized monostable Protection category: RT I. Option*	*Finder*	*Hq*	18	1
	9404spa	*Socket with socket clamps Mounting: Blind bar 35 mm (H): 10 Degree of protection: IP 20 Accessories: metal or plastic jumper, 6-pole comb, timer modules, signaling modules and EMC*	*Finder*			1
	094913	*Latching and unhooking jumper*	*Finder*			1
KA18.6	553490240040	*industrial relay. (A): 7 No. of contacts: 4 Contact configuration: CO Contact material: AGNI Electrical connection: Push-in connection Power supply: DC volts DC: 24 V. Non-polarized monostable Protection category: RT I. Option*	*Finder*	*Hq*	18	1
	9404spa	*Socket with socket clamps Mounting: Blind bar 35 mm (H): 10 Degree of protection: IP 20 Accessories: metal or plastic jumper, 6-pole comb, timer modules, signaling modules and EMC*	*Finder*			1
	094913	*Latching and unhooking jumper*	*Finder*			1
KA18.7	*9404spa*	*Socket with socket clamps Mounting: Blind bar 35 mm (H): 10 Degree of protection: IP 20 Accessories: metal or plastic jumper, 6-pole comb, timer modules, signaling modules and EMC*	*Finder*	*Hq*	18	1
	553490240040	*industrial relay. (A): 7 No. of contacts: 4 Contact configuration: CO Contact material: AGNI Electrical connection: Push-in connection Power supply: DC volts DC: 24 V. Non-polarized monostable Protection category: RT I. Option*	*Finder*			1
	094913	*Latching and unhooking jumper*	*Finder*			1
KA21.1	553490240040	*industrial relay. (A): 7 No. of contacts: 4 Contact configuration: CO Contact material: AGNI Electrical connection: Push-in connection Power supply: DC volts DC: 24 V. Non-polarized monostable Protection category: RT I. Option*	*Finder*	*Hq*	21	1
	9404spa	*Socket with socket clamps Mounting: Blind bar 35 mm (H): 10 Degree of protection: IP 20 Accessories: metal or plastic jumper, 6-pole comb, timer modules, signaling modules and EMC*	*Finder*			1
	094913	*Latching and unhooking jumper*	*Finder*			1
KA22.1	553490240040	*industrial relay. (A): 7 No. of contacts: 4 Contact configuration: CO Contact material: AGNI Electrical connection: Push-in connection Power supply: DC volts DC: 24 V. Non-polarized monostable Protection category: RT I. Option*	*Finder*	*Hq*	22	1
	9404spa	*Socket with socket clamps Mounting: Blind bar 35 mm (H): 10 Degree of protection: IP 20 Accessories: metal or plastic jumper, 6-pole comb, timer modules, signaling modules and EMC*	*Finder*			1
	094913	*Latching and unhooking jumper*	*Finder*			1

REV.	MODIFICA	DATA	FIRMA
05	ACCEPT FOR CONSTRUCTION	24/01/25	
04	ACCEPT FOR CONSTRUCTION	10/12/24	
03	ISSUE FOR APPROVAL	05/09/24	

DATA	15/04/2024
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B-100 HV SWITCH ROOM

MATERIAL LIST
LISTA METERIALI

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 29
F.S. 30

Nome/Item	Tipo/Type	Descrizione/Description	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
KA23A.1	465290240040	*mini relay. (A): 8 N° Contacts: 2 Contact configuration: CO Material Contacts: AGNI Electrical connection: plug-in fitting Power supply: DC Volt DC: 24 V. Non-polarized Monostable Protection category: RT II. Optional: PU*	*Finder*	*Hq*	*23rd*	1
	9702spa	*Plinth with socket terminals Mounting: 35 mm blind bar (A): 8 Degree of protection: IP 20 Accessories: plastic or metal jumper, 8-pole comb, EMC signalling and protection modules, timer*	*Finder*			1
KA23A.2	465290240040	*mini relay. (A): 8 N° Contacts: 2 Contact configuration: CO Material Contacts: AGNI Electrical connection: plug-in fitting Power supply: DC Volt DC: 24 V. Non-polarized Monostable Protection category: RT II. Optional: PU*	*Finder*	*Hq*	*23rd*	1
	9702spa	*Plinth with socket terminals Mounting: 35 mm blind bar (A): 8 Degree of protection: IP 20 Accessories: plastic or metal jumper, 8-pole comb, EMC signalling and protection modules, timer*	*Finder*			1
KA23A.3	465290240040	*mini relay. (A): 8 N° Contacts: 2 Contact configuration: CO Material Contacts: AGNI Electrical connection: plug-in fitting Power supply: DC Volt DC: 24 V. Non-polarized Monostable Protection category: RT II. Optional: PU*	*Finder*	*Hq*	*23rd*	1
	9702spa	*Plinth with socket terminals Mounting: 35 mm blind bar (A): 8 Degree of protection: IP 20 Accessories: plastic or metal jumper, 8-pole comb, EMC signalling and protection modules, timer*	*Finder*			1
KA23A.4	465290240040	*mini relay. (A): 8 N° Contacts: 2 Contact configuration: CO Material Contacts: AGNI Electrical connection: plug-in fitting Power supply: DC Volt DC: 24 V. Non-polarized Monostable Protection category: RT II. Optional: PU*	*Finder*	*Hq*	*23rd*	1
	9702spa	*Plinth with socket terminals Mounting: 35 mm blind bar (A): 8 Degree of protection: IP 20 Accessories: plastic or metal jumper, 8-pole comb, EMC signalling and protection modules, timer*	*Finder*			1
KA23A.5	465290240040	*mini relay. (A): 8 N° Contacts: 2 Contact configuration: CO Material Contacts: AGNI Electrical connection: plug-in fitting Power supply: DC Volt DC: 24 V. Non-polarized Monostable Protection category: RT II. Optional: PU*	*Finder*	*Hq*	*23rd*	1
	9702spa	*Plinth with socket terminals Mounting: 35 mm blind bar (A): 8 Degree of protection: IP 20 Accessories: plastic or metal jumper, 8-pole comb, EMC signalling and protection modules, timer*	*Finder*			1
KA23A.6	465290240040	*mini relay. (A): 8 N° Contacts: 2 Contact configuration: CO Material Contacts: AGNI Electrical connection: plug-in fitting Power supply: DC Volt DC: 24 V. Non-polarized Monostable Protection category: RT II. Optional: PU*	*Finder*	*Hq*	*23rd*	1
	9702spa	*Plinth with socket terminals Mounting: 35 mm blind bar (A): 8 Degree of protection: IP 20 Accessories: plastic or metal jumper, 8-pole comb, EMC signalling and protection modules, timer*	*Finder*			1
KM1	*3RT2316-1BB40*	*Contactor, 4 NO, AC-1: 18 to 24 V DC, 4-pole, 4 NO, size S00, screw terminals*	*siemens*	*Hq*	18	1
	3RH29111HA22	*Bloc.Aus.2L 2R 1L,1L,S00/S0,*	*siemens*			1
LIGHT				*Hq*		1
LIGHT				*Hq*		1
MTP-001	*3RN2000-1AW30*	*Motor protection relay for PTC thermistor supervision 24/240 V AC/DC 1 changeover contact*	*siemens*	*Hq*	11	1
MTP-002	*3RN2000-1AW30*	*Motor protection relay for PTC thermistor supervision 24/240 V AC/DC 1 changeover contact*	*siemens*	*Hq*	11	1
MVA-1	*DMG600*	*multimeter with icon-based LCD*	*Lovato*	*Hq*	6	1
PDSL-77-101		*Pressure-controlled (pressure switch) No*		*Hq*	16	1
PDSL-77-101				*Hq*		1
PDSL-77-102		*Pressure-controlled (pressure switch) No*		*Hq*	16	1
PDSL-77-102				*Hq*		1
PDT-77-101		*Pressure-controlled (pressure switch) No*		*Hq*	16	1
PDT-77-101				*Hq*		1
PDT-77-102		*Pressure-controlled (pressure switch) No*		*Hq*	16	1
PDT-77-102				*Hq*		1

REV.	MODIFICA	DATA	FIRMA
05	ACCEPT FOR CONSTRUCTION	24/01/25	
04	ACCEPT FOR CONSTRUCTION	10/12/24	
03	ISSUE FOR APPROVAL	05/09/24	

DATA 15/04/2024
DISEGN. F.M.
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CLIENT:
CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

MATERIAL LIST
LISTA METERIALI

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 30
F.S. 31

Nome/Item	Tipo/Type	Descrizione/Description	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
PF6A.1	*GSF10*	*air intake filter 100x100*	*Cosmotec*	*Hq*	*6th*	1
	GSV1000220	*Panel Fan 100x100 230V 24m³/h*	*Cosmotec*			1
PF8.1	*GSV1000220*	*Panel Fan 100x100 230V 24m³/h*	*Cosmotec*	*Hq*	8	1
	GSF10	*air intake filter 100x100*	*Cosmotec*			1
PF9A.1	*GSV1000220*	*Panel Fan 100x100 230V 24m³/h*	*Cosmotec*	*Hq*	*9a*	1
	GSF10	*air intake filter 100x100*	*Cosmotec*			1
PFT6A.1	*007026.00001*	*Thermostate Panel Fan*	*Fandis*	*Hq*	*6th*	1
PFT8.1	*007026.00001*	*Thermostate Panel Fan*	*Fandis*	*Hq*	8	1
PFT9A.1	*007026.00001*	*Thermostate Panel Fan*	*Fandis*	*Hq*	*9a*	1
PH6A.1	*050ra50*	*Anticondensing Heater 230V 50W*	*New Elfin*	*Hq*	*6th*	1
PH8.1	*050ra50*	*Anticondensing Heater 230V 50W*	*New Elfin*	*Hq*	8	1
PH9.1	*050ra50*	*Anticondensing Heater 230V 50W*	*New Elfin*	*Hq*	*9a*	1
PHT6A.1	*007038.00001*	*Antcondensing Thermostat 230V*	*Fandis*	*Hq*	*6th*	1
PHT8.1	*007038.00001*	*Antcondensing Thermostat 230V*	*Fandis*	*Hq*	8	1
PHT9A.1	*007038.00001*	*Antcondensing Thermostat 230V*	*Fandis*	*Hq*	*9a*	1
PL6A.1	*050PEL3C*	*230V lamp*	*New Elfin*	*Hq*	*6th*	1
	050kfm	*Magnet kit*	*New Elfin*			1
PL8.1	*050PEL3C*	*230V lamp*	*New Elfin*	*Hq*	8	1
	050kfm	*Magnet kit*	*New Elfin*			1
PL9A.1	*050PEL3C*	*230V lamp*	*New Elfin*	*Hq*	*9a*	1
	050kfm	*Magnet kit*	*New Elfin*			1
PLS6A.1	*RAMC05*	*Micro Door Opening Switch 1 No & 1NC*	*dkc*	*Hq*	*6th*	1
PLS8.1	*RAMC05*	*Micro Door Opening Switch 1 No & 1NC*	*dkc*	*Hq*	8	1
PLS9A.1	*RAMC05*	*Micro Door Opening Switch 1 No & 1NC*	*dkc*	*Hq*	*9a*	1
QF1	*5SU1354-1KK10*	*Residual current circuit breaker, 10 kA, 1P N, AC type, 30 mA, C, IN: 10 A, UN AC: 230 V*	*siemens*	*Hq*	*6th*	1
	5ST3010	*Auxiliary contact block, 1 NO 1 NC for 5SL, 5SY, 5SP circuit breaker*	*siemens*			1
QF1A	*5SY4502-7*	*Circuit breaker 230 V 10KA, 1P N, C, 2A, D=70 mm*	*siemens*	*Hq*	8	1
	5ST3010	*Auxiliary contact block, 1 NO 1 NC for 5SL, 5SY, 5SP circuit breaker*	*siemens*			1
QF1B	*5SY4502-7*	*Circuit breaker 230 V 10KA, 1P N, C, 2A, D=70 mm*	*siemens*	*Hq*	*9a*	1
	5ST3010	*Auxiliary contact block, 1 NO 1 NC for 5SL, 5SY, 5SP circuit breaker*	*siemens*			1
QF2	*5SU1354-1KK16*	*RCD, 10 kA, 1P N, AC type, 30 mA, C, IN: 16 A, UN AC: 230 V*	*siemens*	*Hq*	*6b*	1
	5ST3010	*Auxiliary contact block, 1 NO 1 NC for 5SL, 5SY, 5SP circuit breaker*	*siemens*			1
QF3	*5SY7502-7*	*Circuit breaker 230 V 15KA, 1P N, C, 2 A, D=70 mm*	*siemens*	*Hq*	*6th*	1
	5ST3010	*Auxiliary contact block, 1 NO 1 NC for 5SL, 5SY, 5SP circuit breaker*	*siemens*			1
QF4	*5su1354-1kk06*	*RCD, 10 kA, 1P N, AC Type, 30 mA, C, In: 6 A, One AC: 230 V*	*siemens*	*Hq*	*6b*	1
	5ST3010	*Auxiliary contact block, 1 NO 1 NC for 5SL, 5SY, 5SP circuit breaker*	*siemens*			1
QF5	*5SY7503-7*	*Circuit breaker 230 V 15Ka, 1P N, C, 3 A, D=70 mm*	*siemens*	*Hq*	10	1
QF6	*5SY5206-7*	*Universal current circuit breaker 440 V DC - 400 V AC 10Ka, 2P, C, 6 A*	*siemens*	*Hq*	10	1
QF400	*5SY74027*	*Int. MT 4P C2 ICN 15KA, ICU 50KA*	*siemens*	*Hq*	6	1
QM1	*5SY7410-7*	*Circuit breaker 400 V 15kA, 4P, C, 10 A, D=70 mm*	*siemens*	*Hq*	*6b*	1
	5SM23420	*Block diff. 4P 40A 30mA Type AC x 5sy*	*siemens*			1
	5ST3010	*Auxiliary contact block, 1 NO 1 NC for 5SL, 5SY, 5SP circuit breaker*	*siemens*			1
QM1A	*3RV2011-1EA10*	*Circuit breaker size S00 for motor protection, class 10, trip A 2.8...4 A, trip N 52 A, screw terminal*	*siemens*	*Hq*	7	1
	3RV2901-1E	*Cross Auxiliary Contact Block 1No 1NC Screw Terminals for 3RV2 Circuit Breakers*	*siemens*			1

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DATA 15/04/2024
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CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

MATERIAL LIST
LISTA METERIALI

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 31
F.S. 32

Nome/Item	Tipo/Type	Descrizione/Description	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
QM1B	*3RV2011-1EA10*	*Circuit breaker size S00 for motor protection, class 10, trip A 2.8...4 A, trip N 52 A, screw terminal*	*siemens*	*Hq*	9	1
	3RV2901-1E	*Cross Auxiliary Contact Block 1No 1NC Screw Terminals for 3RV2 Circuit Breakers*	*siemens*			1
QM2A	*3RV2011-4AA10*	*Circuit breaker size S00 for motor protection, class 10, trip A 10...16 A, trip N 208 A, screw terminal*	*siemens*	*Hq*	7	1
	3RV2901-1E	*Cross Auxiliary Contact Block 1No 1NC Screw Terminals for 3RV2 Circuit Breakers*	*siemens*			1
QM2B	*3RV2011-4AA10*	*Circuit breaker size S00 for motor protection, class 10, trip A 10...16 A, trip N 208 A, screw terminal*	*siemens*	*Hq*	9	1
	3RV2901-1E	*Cross Auxiliary Contact Block 1No 1NC Screw Terminals for 3RV2 Circuit Breakers*	*siemens*			1
QS1	*3VA1140-3GE42-0AA0*	*3VA1 switch IEC chassis 160 switching capacity class n ICU=25 KA 415 V 4-pole, TM220 system protection, ATFM, IN=40 A Overload protection IR=28 A... 40 A Short-Circuit Protection II=10 x in N-Conductor Protection 100% LUG terminal*	*siemens*	*Hq*	6	1
	3VA9988-0BL30	*bobsleigh. Launch SIN 24VAC 50/60 Hz/12-30 VDC*	*siemens*			1
	3VA9988-0AA11	*Cont. HP-type status*	*siemens*			1
	3VA9157-0FK21	*com. rinv. Door Lock x 3VA10/1 STD*	*siemens*			1
	3VA9111-0WD40	*Cover x 3VA10/1 4P 1pcs.*	*siemens*			2
QSA	*5SY4420-7*	*Circuit breaker 400 V 10Ka, 4P, C, 20A, D=70 mm*	*siemens*	*Hq*	6	1
	5ST3010	*Auxiliary contact block, 1 NO 1 NC for 5SL, 5SY, 5SP circuit breaker*	*siemens*			1
	5st3060	*Rotary control padlockable door lock IP65 black*	*siemens*			1
	5st3031	*24-48 V DC opening trip, for 5SL4, 5SY, 5SP, RCBO 5SU1, FI 5SV circuit breaker*	*siemens*			1
QSB	*5SY4420-7*	*Circuit breaker 400 V 10Ka, 4P, C, 20A, D=70 mm*	*siemens*	*Hq*	6	1
	5ST3010	*Auxiliary contact block, 1 NO 1 NC for 5SL, 5SY, 5SP circuit breaker*	*siemens*			1
	5st3060	*Rotary control padlockable door lock IP65 black*	*siemens*			1
	5st3031	*24-48 V DC opening trip, for 5SL4, 5SY, 5SP, RCBO 5SU1, FI 5SV circuit breaker*	*siemens*			1
SA14.1	*3su1002-2bl10-0aa0*	*Black selector 3 positions (I or II), illuminable. permanent, 2 x 45°*	*siemens*	*Hq*	14	1
	3su1500-0aa10-0aa0	*Support without module. plastic*	*siemens*			1
	3SU1400-1AA10-1BA0	*Module of contacts for fixing on the front plate. 1 NO, screw terminals*	*siemens*			2
SA16.1	*3su1002-2bl10-0aa0*	*Black selector 3 positions (I or II), illuminable. permanent, 2 x 45°*	*siemens*	*Hq*	16	1
	3su1500-0aa10-0aa0	*Support without module. plastic*	*siemens*			1
	3SU1400-1AA10-1BA0	*Module of contacts for fixing on the front plate. 1 NO, screw terminals*	*siemens*			2
SOCKET				*Hq*		1
TA1.1	*TAC022150X05*	*Amperometric transformer hole 22, transformation ratio 150/5 A*	*Frer*	*Hq*	6	1
TA2.1	*TAC022150X05*	*Amperometric transformer hole 22, transformation ratio 150/5 A*	*Frer*	*Hq*	6	1
TA3.1	*TAC022150X05*	*Amperometric transformer hole 22, transformation ratio 150/5 A*	*Frer*	*Hq*	6	1
VSD 1	*6SL3210-5BE22-2CV0*	*SinamiCs V20 3AC380-480V 2.2KW with C3 Filter*	*siemens*	*Hq*	7	1
VSD 2	*6SL3210-5BE22-2CV0*	*SinamiCs V20 3AC380-480V 2.2KW with C3 Filter*	*siemens*	*Hq*	9	1
X3		*RJ45 port per panel*		*Hq*	*25th*	1
XAC	*CBC04GR*	*CBC.4/GR Feed-through clamp*	*Cabur*	*Hq*		18
XC	*CBS02GR*	*Sectionable clamp 2.5 mm2*	*Cabur*	*Hq*		8
XFD	*CBS02GR*	*Sectionable clamp 2.5 mm2*	*Cabur*	*Hq*		12
XFD/S	*CBS02GR*	*Sectionable clamp 2.5 mm2*	*Cabur*	*Hq*		12
XM1	*CBC02GR*	*CBC.2/GR Thru-Clamp*	*Cabur*	*Hq*		3
	CBC06GR	*CBC.6/GR Thru-Clamp*	*Cabur*			3
XM2	*CBC02GR*	*CBC.2/GR Thru-Clamp*	*Cabur*	*Hq*		3
	CBC06GR	*CBC.6/GR Thru-Clamp*	*Cabur*			3

REV.	MODIFICA	DATA	FIRMA
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DATA 15/04/2024
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CLIENT: CROSSWIND

BASE LOAD POWER HUB (BLPH)
B-100 HV SWITCH ROOM

MATERIAL LIST
LISTA METERIALI

ROSETTI MARINO | ALEXSISTEMI spa

1724000049-HV-DA-00026

FG. 32
F.S. 33

Nome/Item	Tipo/Type	Descrizione/Description	Costruttore/Manufacturer	Quadro/Board	Fg/Sh	Q.ta/Q.ty
XPF1	*CBS02GR*	*Sectionable clamp 2.5 mm2*	*Cabur*	*Hq*		16
	SF900GR	*SFR.4/GR Sectionable clamp*	*Cabur*			2
XPF2	*CBS02GR*	*Sectionable clamp 2.5 mm2*	*Cabur*	*Hq*		16
	SF900GR	*SFR.4/GR Sectionable clamp*	*Cabur*			2
XPS	*CBC04GR*	*CBC.4/GR Feed-through clamp*	*Cabur*	*Hq*		3
	CBC35gr	*CBC.35/GR Feed-through clamp*	*Cabur*			5
XT	*CBS02GR*	*Sectionable clamp 2.5 mm2*	*Cabur*	*Hq*		13

REV.	MODIFICA	DATA	FIRMA
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Distinta Materiali
Bill of Materials

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FG. 33
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