Base Load Power Hub (BLPH)

B-100 HVAC I/O LIST - E&I SHELTERS

Document Number: 1724000049-HV-LIS-00051

Document Class: 3

ROSETTI MARINO

1	NO COMMENTS - APPROVED - WORK MAY PROCEED
2	MINOR COMMENTS - REVISE AND RESUBMIT - WORK MAY PROCEED
3	MAJOR COMMENTS – REJECTED – DO NOT PROCEED
4	APPROVAL NOT REQUIRED

NOTE: Approval doesn't relieve the supplier from mandatory compliance with contractual documents and specifications. Comments made do not imply acceptance of any cost or delivery impact.

Sign	Date
L. Caviglia	04/02/2025

Rev.	Date	Description	Prepared	Reviewed	Approved
05	28/01/2025	Issue for Information (IFI)	M.G.	O.A.	C.A.
04	19/12/2024	Issue for Information (IFI)	M.G.	O.A.	C.A.
03	11/11/2024	Issue for Information (IFI)	M.G.	O.A.	C.A.
02	17/10/2024	Issue for Information (IFI)	M.G.	O.A.	C.A.
01	26/09/2024	Issue for Information (IFI)	F.M.	S.S.	M.G.
00	07/06/2024	Issue for Information (IFI)	F.M.	S.S.	M.G.

ALEXSISTEMI spa

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		00	01	02	03	04	05		
1	Cover	X	X	X	X	X	X		
2	Table of Contents	X	X	X	X	X	X		
3	Revision / Change Log	X	X	X	X	X	X		
4	I/O List	X	X	X	X	X	X		

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Revision / Change Log

Rev.	Description
00	ISSUE FOR INFORMATION (IFI)
01	ISSUE FOR INFORMATION (IFI)
02	ISSUE FOR INFORMATION (IFI)
03	ISSUE FOR INFORMATION (IFI)
04	ISSUE FOR INFORMATION (IFI)
05	ISSUE FOR INFORMATION (IFI)

HOLDS LIST

No.	Description
1.	
2.	
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4.	

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CROSSWIND	HOLLANDSE KUST NOORD WIND PARK Project Contract No. CW-WP4-2023-05	ROSETTI MARINO
Document Titel:	B-100 HVAC IO LIST - E&I SHELTERS	Sh. 4 of 6 Date: 28/01/2025 Rev: 5

Rev	Item	P&ID	PLC I / O	Service Description	Terminal Block I/O	SIGNAL TAG	Equipment	IO Type	Location		Logic State		Range		E.U.	Alarms				Ex	Red	Mon	Signal Type	Power	Note
									From	To	State 0	State 1	Min	Max		LL	L	H	HH						
Outside system signals																									
2	1	123A90-1724000049HV-PID-00039	I 2,4	SHUT DOWN	XC - 100 / 101	77-XS-001	B100-HSB-001	DI	SIS	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		24 Vdc From SIS, Free voltage contact for HVAC system
2	2	123A90-1724000049HV-PID-00039	Q0,2	HVAC CRITICAL FAULT	XC - 102 / 103	77XA-001	B100-HSB-001	DO	HVAC UCP	SIS	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		24 Vdc From HVAC & Lighting Panel, Free voltage contact for SIS system
3	3	123A90-1724000049HV-PID-00039	I 4,7	F&G DAMPER HDF-77001 CLOSE SIGNAL	XFD/S - 800 / 801	77-ZSL-001	HDF-77001	DO	HVAC UCP	F&G	NOT CLOSE	CLOSED	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		24 Vdc From HVAC & Lighting Panel, Free voltage contact for F&G system
3	4	123A90-1724000049HV-PID-00039	I 5,1	F&G DAMPER HDF-77002 CLOSE SIGNAL	XFD/S - 804 / 805	77-ZSL-002	HDF-77002	DO	HVAC UCP	F&G	NOT CLOSE	CLOSED	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		24 Vdc From HVAC & Lighting Panel, Free voltage contact for F&G system
3	5	123A90-1724000049HV-PID-00039	I 5,3	F&G DAMPER HDF-77003 CLOSE SIGNAL	XFD/S - 808 / 809	77-ZSL-003	HDF-77003	DO	HVAC UCP	F&G	NOT CLOSE	CLOSED	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		24 Vdc From HVAC & Lighting Panel, Free voltage contact for F&G system
HVAC system signals																									
4	6	123A90-1724000049HV-PID-00039	I 0,0	MOTORISED DAMPER CLOSED			HDZ-77-101	DI	HDS-77001	HVAC UCP	NOT CLOSED	CLOSED	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	7	123A90-1724000049HV-PID-00039	I 0,1	MOTORISED DAMPER OPEN			HDZ-77-101	DI	HDS-77001	HVAC UCP	NOT OPEN	OPEN	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	8	123A90-1724000049HV-PID-00039	I 0,4	MAIN BRAKER TRIP SIGNAL			HVAC UCP	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	9	123A90-1724000049HV-PID-00039	I 0,5	PRESSURIZING FAN UNIT HHU-77001 THERMIC PROTECTION			TE-77-101	DI	TE-77-101	HVAC UCP	RUNNING	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	10	123A90-1724000049HV-PID-00039	I 0,6	HHU-77001 ELECTRICAL HEATER HIGH/VERY HIGH TEMPERATURE THERMOSTATE			TSH/HH-77-101	DI	TSH/HH-77-101	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	11	123A90-1724000049HV-PID-00039	I 0,7	PRESSURIZING FAN UNIT HHU-77001 TRIP			HFM-77-101	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	12	123A90-1724000049HV-PID-00039	I 1,0	PRESSURIZING FAN UNIT HHU-77001 VSD MALFUNCTION			HFM-77-101	DI	HVAC UCP	HVAC UCP	RUNNING	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	13	123A90-1724000049HV-PID-00039	I 1,1	PRESSURIZING FAN UNIT HHU-77002 THERMIC PROTECTION			TE-77-102	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	14	123A90-1724000049HV-PID-00039	I 1,2	HHU-77002 ELECTRICAL HEATER HIGH/VERY HIGH TEMPERATURE THERMOSTATE			TSH/HH-77-102	DI	TSH/HH-77-102	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	15	123A90-1724000049HV-PID-00039	I 1,3	PRESSURIZING FAN UNIT HHU-77002 TRIP			HFM-77-102	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	16	123A90-1724000049HV-PID-00039	I 1,4	PRESSURIZING FAN UNIT HHU-77002 VSD MALFUNCTION			HFM-77-102	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	17	123A90-1724000049HV-PID-00039	I1.5	ELECTRICAL HEATER HHU-77001 TRIP			HSS-77-103	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
2	18	123A90-1724000049HV-PID-00039	I 1,6	ELECTRICAL HEATER HHU-77002 TRIP			HSS-77-104	DI	HVAC UCP	HVAC UCP	RUNNING	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	19	123A90-1724000049HV-PID-00039	I 1,7	HHU-77001 ELECTRICAL HEATER MODULATION FAULT			HSS-77-103	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	20	123A90-1724000049HV-PID-00039	I 2,0	HHU-77002 ELECTRICAL HEATER MODULATION FAULT			HSS-77-104	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	21	123A90-1724000049HV-PID-00039	I 2,1	TRIP SIGNAL AUX			B100-HSB-001	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	22	123A90-1724000049HV-PID-00039	I 2,2	TRIP SIGNAL LIGHT POWER SUPPLY			B100-HSB-001	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	23	123A90-1724000049HV-PID-00039	I 2,3	TRIP SIGNAL MODULE SOCKET			B100-HSB-001	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	24	123A90-1724000049HV-PID-00039	I 2,5	MOTORISED DAMPER CLOSED			HDZ-77-102	DI	HDZ-77-102	HVAC UCP	NOT CLOSED	CLOSED											VFC 24 Vdc		-
4	25	123A90-1724000049HV-PID-00039	I 2,6	MOTORISED DAMPER OPEN			HDZ-77-102	DI	HDZ-77-102	HVAC UCP	NOT OPEN	OPEN											VFC 24 Vdc		-
4	26	123A90-1724000049HV-PID-00039	I 2,7	HHU-77001 AUTOMATIC SELECTOR			HHU-77001	DI	HHU-77001	HVAC UCP	NOT AUTOMATIC	AUTOMATIC	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	27	123A90-1724000049HV-PID-00039	I 3,0	TRIP AUX SECTION HHU-77001			HHU-77001	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	28	123A90-1724000049HV-PID-00039	I 3,1	GENERAL PANEL AUX TRIP			B100-HSB-001	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	29	123A90-1724000049HV-PID-00039	I 3,2	HHU-77001 SECTION MAIN BRAKER TRIP			HHU-77001	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	30	123A90-1724000049HV-PID-00039	I 3,3	HHU-77002 SECTION MAIN BRAKER TRIP			HHU-77002	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	31	123A90-1724000049HV-PID-00039	I 3,4	SPACE HEATER TRIP			HHS-77-001/2/3	DI	HVAC UCP	HVAC UCP	ALARM	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	32	123A90-1724000049HV-PID-00039	I 3,6	SPACE HEATER RUN			HHS-77-001/2/3	DI	HVAC UCP	HVAC UCP	STOP	RUN	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	33	123A90-1724000049HV-PID-00039	I 4,0	HHU-77002 AUTOMATIC SELECTOR			HHU-77002	DI	HVAC UCP	HVAC UCP	NOT AUTOMATIC	AUTOMATIC	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	34	123A90-1724000049HV-PID-00039	I 4,1	HHU-77001 FAN LOW PRESSURE			PDSL-77-101	DI	HVAC UCP	HHU-77001	STOP	RUN	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	35	123A90-1724000049HV-PID-00039	I 4,2	HHU-77001 FILTER FLOW SWITCH HIGH PRESSURE			PDT-77-101	DI	HVAC UCP	HHU-77001	NORMAL	DIRTY	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	36	123A90-1724000049HV-PID-00039	I 4,3	HHU-77002 FAN LOW PRESSURE			PDSL-77-102	DI	HVAC UCP	HHU-77002	STOP	RUN	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	37	123A90-1724000049HV-PID-00039	I 4,4	HHU-77002 FILTER FLOW SWITCH HIGH PRESSURE			PDT-77-102	DI	HVAC UCP	HHU-77002	NORMAL	DIRTY	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	38	123A90-1724000049HV-PID-00039	I 4,5	HHU-77001 MANUAL SELECTOR			HHU-77001	DI	HVAC UCP	HVAC UCP	NOT MANUAL	MANUAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	39	123A90-1724000049HV-PID-00039	I 4,6	HHU-77002 MANUAL SELECTOR			HHU-77002	DI	HVAC UCP	HVAC UCP	NOT MANUAL	MANUAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	40	123A90-1724000049HV-PID-00039	I 4,7	HFD-77001 CLOSED SIGNAL		77-ZSL-001	HFD-77001	DI	HFD-77001	HVAC UCP	NOT CLOSED	CLOSED	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	41	123A90-1724000049HV-PID-00039	I 5,0	HFD-77001 OPEN SIGNAL		77-ZSH-001	HFD-77001	DI	HFD-77001	HVAC UCP	NOT OPEN	OPEN	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	42	123A90-1724000049HV-PID-00039	I 5,1	HFD-77002 CLOSED SIGNAL		77-ZSL-002	HFD-77002	DI	HFD-77002	HVAC UCP	NOT CLOSED	CLOSED	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	43	123A90-1724000049HV-PID-00039	I 5,2	HFD-77002 OPEN SIGNAL		77-ZSH-002	HFD-77002	DI	HFD-77002	HVAC UCP	NOT OPEN	OPEN	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	44	123A90-1724000049HV-PID-00039	I 5,3	HFD-77003 CLOSED SIGNAL		77-ZSL-003	HFD-77003	DI	HFD-77003	HVAC UCP	NOT CLOSED	CLOSED	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	45	123A90-1724000049HV-PID-00039	I 5,4	HFD-77003 OPEN SIGNAL		77-ZSH-003	HFD-77003	DI	HFD-77003	HVAC UCP	NOT OPEN	OPEN	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	46	123A90-1724000049HV-PID-00039	I 0,2	HEATING CABLE TRIP			HHC-77-001	DI	HVAC UCP	HVAC UCP	TRIP	NORMAL	-	-	-	-	-	-	-	-	-	-	VFC 24 Vdc		-
4	47	123A90-1724000049HV-PID-00039	Q 0,0	PRESSURIZING FAN UNIT HHU-77001 VSD START			HFM-77-101	DO	HVAC UCP	HVAC UCP	STOP	START	-	-	-	-	-	-	-	-	-	-	24 V DC		-
4	48	123A90-1724000049HV-PID-00039	Q 0,1	PRESSURIZING FAN UNIT HHU-77002 VSD START			HFM-77-102	DO	HVAC UCP	HVAC UCP	STOP	START	-	-	-	-	-	-	-	-	-	-	24 V DC		-
4	49	123A90-1724000049HV-PID-00039	Q 0,3	DAMPER OPEN COMMAND			HDZ-77-101	DO	HVAC UCP	HDZ-77001	CLOSE	OPEN	-	-	-	-	-	-	-	-	-	-	24 V DC		-
4	50	123A90-1724000049HV-PID-00039	Q 0,4	PRESSURIZING FAN UNIT HHU-77001 HEATER START			HSS-77-102	DO	HVAC UCP	HVAC UCP	STOP	START	-	-	-	-	-	-	-	-	-	-	24 V DC		-
4	51	123A90-1724000049HV-PID-00039	Q 0,5	PRESSURIZING FAN UNIT HHU-77002 HEATER START			HSS-77-103	DO	HVAC UCP	HVAC UCP	STOP	START	-	-	-	-	-	-	-	-	-	-	24 V DC		-
4	52	123A90-1724000049HV-PID-00039	Q 0,6	SPACE HEATER START			HHS-77-001/2/3	DO	HVAC UCP	HVAC UCP	STOP	START	-	-	-	-	-	-	-	-	-	-	24 V DC		-
4	53	123A90-1724000049HV-PID-00039	Q 0,7	DAMPER OPEN COMMAND			HDZ-77-102	DO	HVAC UCP	HDZ-77002	CLOSE	OPEN	-	-	-	-	-	-	-	-	-	-	24 V DC		-

CROSSWIND	HOLLANDSE KUST NOORD WIND PARK Project Contract No. CW-WP4-2023-05	ROSETTI MARINO
Document Titel:	B-100 HVAC IO LIST - E&I SHELTERS	Sh. 5 of 6 Date: 28/01/2025 Rev: 5

Rev	Item	P&ID	PLC I / O	Service Description	SIGNAL TAG	Equipment	IO Type	Location		Logic State		Range		E.U.	Alarms				Ex	Red	Mon	Signal Type	Power	Note
								From	To	State 0	State 1	Min	Max		LL	L	H	HH						
4	54	123A90-1724000049HV-PID-00039	AQ 0,0	PRESSURIZING FAN UNIT HHU-77001 VSD MODULATION		HFM-77-101	AO	HVAC UCP	HVAC UCP	-	-	4	20mA	-	-	-	-	-	-	-	-	4-20mA		-
4	55	123A90-1724000049HV-PID-00039	AQ 0,1	PRESSURIZING FAN UNIT HHU-77002 VSD MODULATION		HFM-77-102	AO	HVAC UCP	HVAC UCP	-	-	4	20mA	-	-	-	-	-	-	-	-	4-20mA		-
4	56	123A90-1724000049HV-PID-00039	AQ 0,2	HHU-77001 ELECTRICAL HEATER MODULATION		HSS-77-103	AO	HVAC UCP	HVAC UCP	-	-	4	20mA	-	-	-	-	-	-	-	-	4-20mA		-
4	57	123A90-1724000049HV-PID-00039	AQ 0,3	HHU-77002 ELECTRICAL HEATER MODULATION		HSS-77-104	AO	HVAC UCP	HVAC UCP	-	-	4	20mA	-	-	-	-	-	-	-	-	4-20mA		-
4	58	123A90-1724000049HV-PID-00039	AI 0,0	TEMPERATURE TRASMITTER 001		77-TT-101	AI	77-TT-101	HVAC UCP	-	-	-10	60	°C	-	-	-	-	-	-	-	4-20mA		-
4	59	123A90-1724000049HV-PID-00039	AI 0,1	TEMPERATURE TRASMITTER 002		77-TT-102	AI	77-TT-102	HVAC UCP	-	-	-10	60	°C	-	-	-	-	-	-	-	4-20mA		-
4	60	123A90-1724000049HV-PID-00039	AI 0,3	TEMPERATURE TRASMITTER 003		77-TT-103	AI	77-TT-103	HVAC UCP	-	-	-10	60	°C								4-20mA		
4	61	123A90-1724000049HV-PID-00039	AI 1,0	TEMPERATURE TRASMITTER 004		77-TT-104	AI	77-TT-104	HVAC UCP	-	-	-10	60	°C								4-20mA		
4	62	123A90-1724000049HV-PID-00039	AI 0,2	DIFFERENTIAL PRESSURE TRASMITTER PDIT-001		77-PT-101	AI	77-PT-101	HVAC UCP	-	-	0	500	Pa	-	-	-	-	-	-	-	4-20mA		-

HVAC ModBUs Signal

Rev	Item	P&ID	PLC I / O	Service Description	EQUIPMENT TAG	SIGNAL TAG	SIGNAL TYPE		SIGNAL TO PCS	MODBUS			STATUS		E.U.	RANGE		READ (R) WRITE (W)		Note
							PROTOCOL	TYPE		SLAVE ADDRESS	REGISTER	BIT NO.	HIGH - 1	LOW - 0		MIN	MAX			
Rev	Item	P&ID	PLC I / O	Service Description	EQUIPMENT TAG	SIGNAL TAG	SIGNAL TYPE		SIGNAL TO PCS	MODBUS			STATUS		E.U.	RANGE		READ (R) WRITE (W)		Note
							PROTOCOL	TYPE		SLAVE ADDRESS	REGISTER	BIT NO.	HIGH - 1	LOW - 0		MIN	MAX			
4	67	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFD-77001 NOT OPEN	HFD-77001	HFD-77001-ZSH	ModBus TCP/IP	BOOL	DIGITAL		40001	0	NOT OPEN	OK				R		
4	68	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFD-77001 NOT CLOSE	HFD-77001	HFD-77001-ZSL	ModBus TCP/IP	BOOL	DIGITAL		40001	1	NOT CLOSE	OK				R		
4	69	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFD-77002 NOT OPEN	HFD-77002	HFD-77002-ZSH	ModBus TCP/IP	BOOL	DIGITAL		40001	2	NOT OPEN	OK				R		
4	70	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFD-77002 NOT CLOSE	HFD-77002	HFD-77002-ZSL	ModBus TCP/IP	BOOL	DIGITAL		40001	3	NOT CLOSE	OK				R		
4	71	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFD-77003 NOT OPEN	HFD-77003	HFD-77003-ZSH	ModBus TCP/IP	BOOL	DIGITAL		40001	4	NOT OPEN	OK				R		
4	72	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFD-77003 NOT CLOSE	HFD-77003	HFD-77003-ZSL	ModBus TCP/IP	BOOL	DIGITAL		40001	5	NOT CLOSE	OK				R		
4	73	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HDZ-77-101 NOT OPEN	HDZ-77-101	HDZ-77-101-ZSH	ModBus TCP/IP	BOOL	DIGITAL		40001	6	NOT OPEN	OK				R		
4	74	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HDZ-77-101 NOT CLOSE	HDZ-77-101	HDZ-77-101-ZSL	ModBus TCP/IP	BOOL	DIGITAL		40001	7	NOT CLOSE	OK				R		
4	75	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HDZ-77-102 NOT OPEN	HDZ-77-102	HDZ-77-102-ZSH	ModBus TCP/IP	BOOL	DIGITAL		40001	8	NOT OPEN	OK				R		
4	76	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HDZ-77-102 NOT CLOSE	HDZ-77-102	HDZ-77-102-ZSL	ModBus TCP/IP	BOOL	DIGITAL		40001	9	NOT CLOSE	OK				R		
4	77	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFM-77-101 PTC Protection	HFM-77-101	HFM-77-101-PTCP	ModBus TCP/IP	BOOL	DIGITAL		40001	10	FAULT	OK				R		
4	78	123A90-1724000049HV-PID-00039	Modbus TCP/IP	TSH/HH-77-101 Electrical heater protection thermostate	TSH-HH-77-101	HSS-77-101-TSPH	ModBus TCP/IP	BOOL	DIGITAL		40001	11	FAULT	OK				R		
4	79	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFM-77-101 TRIP SIGNAL	HFM-77-101	HFM-77-101-TRIP	ModBus TCP/IP	BOOL	DIGITAL		40001	12	FAULT	OK				R		
4	80	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFM-77-101 VSD MALFUNCTION	HFM-77-101	HFM-77-101-VSDF	ModBus TCP/IP	BOOL	DIGITAL		40001	13	FAULT	OK				R		
4	81	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HSS-77-103 TRIP	HSS-77-103	HSS-77-103-TRP	ModBus TCP/IP	BOOL	DIGITAL		40001	14	FAULT	OK				R		
4	82	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HSS-77-103 MODULATION FAULT	HSS-77-103	HSS-77-103-MF	ModBus TCP/IP	BOOL	DIGITAL		40001	15	FAULT	OK				R		
4	83	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77001 AUX TRIP	HHU-77001	HHU-77001-ATRP	ModBus TCP/IP	BOOL	DIGITAL		40002	0	FAULT	OK				R		
4	84	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77001 MAIN BRAKER TRIP	HHU-77001	HHU-77001-MBTRP	ModBus TCP/IP	BOOL	DIGITAL		40002	1	FAULT	OK				R		
4	85	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77001 NO FLOW	HHU-77001	HHU-77001-NF	ModBus TCP/IP	BOOL	DIGITAL		40002	2	FAULT	OK				R		
4	86	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFM-77-102 Ptc Protection	HFM-77-102	HFM-77-102-PTCP	ModBus TCP/IP	BOOL	DIGITAL		40002	3	FAULT	OK				R		
4	87	123A90-1724000049HV-PID-00039	Modbus TCP/IP	TSH/HH-77-102	TSH/HH-77-102	TSH/HH-77-102-TSPH	ModBus TCP/IP	BOOL	DIGITAL		40002	4	FAULT	OK				R		
4	88	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFM-77-102 trip	HFM-77-102	HFM-77-102-TRP	ModBus TCP/IP	BOOL	DIGITAL		40002	5	FAULT	OK				R		
4	89	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HFM-77-102 VSD Malfunction	HFM-77-102	HFM-77-102-VSDF	ModBus TCP/IP	BOOL	DIGITAL		40002	6	FAULT	OK				R		
4	90	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HSS-77-104 TRIP	HSS-77-104	HSS-77-104-TRP	ModBus TCP/IP	BOOL	DIGITAL		40002	7	FAULT	OK				R		
4	91	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HSS-77-104 Modulation Fault	HSS-77-104	HSS-77-104-MF	ModBus TCP/IP	BOOL	DIGITAL		40002	8	FAULT	OK				R		
4	92	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77002 aux Trip	HHU-77002	HHU-77002-ATRP	ModBus TCP/IP	BOOL	DIGITAL		40002	9	FAULT	OK				R		
4	93	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77002 Main Braker Trip	HHU-77002	HHU-77002-MBTRP	ModBus TCP/IP	BOOL	DIGITAL		40002	10	FAULT	OK				R		
4	94	123A90-1724000049HV-PID-00039	Modbus TCP/IP	B100-HSB-001 Main Braker Trip	B100-HSB-001	B100-HSB-001-MBTRP	ModBus TCP/IP	BOOL	DIGITAL		40002	11	FAULT	OK				R		
4	95	123A90-1724000049HV-PID-00039	Modbus TCP/IP	B100-HSB-001 Module LIght Trip	B100-HSB-001	B100-HSB-001-MLTRP	ModBus TCP/IP	BOOL	DIGITAL		40002	12	FAULT	OK				R		
4	96	123A90-1724000049HV-PID-00039	Modbus TCP/IP	B100-HSB-001 Module Socket Trip	B100-HSB-001	B100-HSB-001-MSTRP	ModBus TCP/IP	BOOL	DIGITAL		40002	13	FAULT	OK				R		
4	97	123A90-1724000049HV-PID-00039	Modbus TCP/IP	B100-HSB-001 AuX Trip	B100-HSB-001	B100-HSB-001-ATRP	ModBus TCP/IP	BOOL	DIGITAL		40002	14	FAULT	OK				R		
4	98	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHS-77-001/2/3 Space Heater trip	HHS-77-001/2/3	HHS-77-001/2/3-SHTRP	ModBus TCP/IP	BOOL	DIGITAL		40002	15	FAULT	OK				R		
4	99	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHS-77-001/2/3 Fault	HHS-77-001/2/3	HHS-77-001/2/3-SHF	ModBus TCP/IP	BOOL	DIGITAL		40003	0	FAULT	OK				R		
4	100	123A90-1724000049HV-PID-00039	Modbus TCP/IP	77-TT-101 Fault	77-TT-101	77-TT-101-F	ModBus TCP/IP	BOOL	DIGITAL		40003	1	FAULT	OK				R		
4	101	123A90-1724000049HV-PID-00039	Modbus TCP/IP	77-TT-102 Fault	77-TT-102	77-TT-102-F	ModBus TCP/IP	BOOL	DIGITAL		40003	2	FAULT	OK				R		
4	102	123A90-1724000049HV-PID-00039	Modbus TCP/IP	77-TT-103 Fault	77-TT-103	77-TT-103-F	ModBus TCP/IP	BOOL	DIGITAL		40003	3	FAULT	OK				R		
4	103	123A90-1724000049HV-PID-00039	Modbus TCP/IP	77-TT-104 Fault	77-TT-104	77-TT-104-F	ModBus TCP/IP	BOOL	DIGITAL		40003	4	FAULT	OK				R		
4	104	123A90-1724000049HV-PID-00039	Modbus TCP/IP	77-PT-101 Fault	77-PT-101	77-PT-101-F	ModBus TCP/IP	BOOL	DIGITAL		40003	5	FAULT	OK				R		
4	105	123A90-1724000049HV-PID-00039	Modbus TCP/IP	Major Fault	B100-HSB-001	B100-HSB-001-MJF	ModBus TCP/IP	BOOL	DIGITAL		40003	6	FAULT	OK				R		

CROSSWIND	HOLLANDSE KUST NOORD WIND PARK Project Contract No. CW-WP4-2023-05	ROSETTI MARINO
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Rev	Item	P&ID	PLC I / O	Service Description	EQUIPMENT TAG	SIGNAL TAG	SIGNAL TYPE		SIGNAL TO PCS	MODBUS			STATUS		E.U.	RANGE				READ (R) WRITE (W)		Note
							PROTOCOL	TYPE		SLAVE ADDRESS	REGISTER	BIT NO.	HIGH - 1	LOW - 0		MIN		MAX				
4	106	123A90-1724000049HV-PID-00039	Modbus TCP/IP	Module Low Pressure	B100-HSB-001	B100-HSB-001-LP	ModBus TCP/IP	BOOL	DIGITAL		40003	7	FAULT	OK						R		
4	107	123A90-1724000049HV-PID-00039	Modbus TCP/IP	ModBUS Fault	B100-HSB-001	B100-HSB-001-MODBUSF	ModBus TCP/IP	BOOL	DIGITAL		40003	8	FAULT	OK						R		
4	108	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77002 NO FLOW	HHU-77002-NF	HHU-77002-NF	ModBus TCP/IP	BOOL	DIGITAL		40003	9	FAULT	OK						R		
4	109	123A90-1724000049HV-PID-00039	Modbus TCP/IP	SPARE			ModBus TCP/IP	BOOL	DIGITAL		40003	10										
4	110	123A90-1724000049HV-PID-00039	Modbus TCP/IP	SPARE			ModBus TCP/IP	BOOL	DIGITAL		40003	11										
4	111	123A90-1724000049HV-PID-00039	Modbus TCP/IP	SPARE			ModBus TCP/IP	BOOL	DIGITAL		40003	12										
4	112	123A90-1724000049HV-PID-00039	Modbus TCP/IP	SPARE			ModBus TCP/IP	BOOL	DIGITAL		40003	13										
4	113	123A90-1724000049HV-PID-00039	Modbus TCP/IP	ModBus Server Error	B100-HSB-001	B100-HSB-001-MSE	ModBus TCP/IP	BOOL	DIGITAL		40003	14	OK	FAULT						R		
4	114	123A90-1724000049HV-PID-00039	Modbus TCP/IP	SPARE			ModBus TCP/IP	BOOL	DIGITAL		40003	15								W		
4	115	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77001 Status	HHU-77001	HHU-77001-S	ModBus TCP/IP	INT	ANALOG		40004				NA					R		1=AVAILABLE 2=RUN 3=FAULT
4	116	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77002 Status	HHU-77002	HHU-77002-S	ModBus TCP/IP	INT	ANALOG		40005				NA					R		1=AVAILABLE 2=RUN 3=FAULT
4	117	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHS-77001/2/3 Status	HHS-77001/2/3	HHS-77001/2/3-S	ModBus TCP/IP	INT	ANALOG		40006				NA					R		1=AVAILABLE 2=RUN 3=FAULT
4	118	123A90-1724000049HV-PID-00039	Modbus TCP/IP	B 100 Medium Internal Temperature	B100-HSB-001	B100-HSB-001-IT	ModBus TCP/IP	INt	ANALOG		40007				°C					R		DIVIDE THE NUMBER BY TEN TO GET THE CORRECT VALUE
4	119	123A90-1724000049HV-PID-00039	Modbus TCP/IP	B100 internal pressure	B100-HSB-001	B100-HSB-001-IP	ModBus TCP/IP	INT	ANALOG		40008				Pa					R		DIVIDE THE NUMBER BY TEN TO GET THE CORRECT VALUE
4	120	123A90-1724000049HV-PID-00039	Modbus TCP/IP	ModBus WatchDog	B100-HSB-001	B100-HSB-001-WD	ModBus TCP/IP	BOOL	DIGITAL		40009				NA					W		PULSATING HIGH/LOW SIGNAL WITH FREQUENCI UNDER 15S
4	121	123A90-1724000049HV-PID-00039	Modbus TCP/IP	System Start From PCS	B100-HSB-001	B100-HSB-001-SSTART	ModBus TCP/IP	BOOL	DIGITAL		40010		START	NONE	NA					W		SART SIGNAL FROM PCS
4	122	123A90-1724000049HV-PID-00039	Modbus TCP/IP	System Stop From PCS	B100-HSB-001	B100-HSB-001-SSTOP	ModBus TCP/IP	BOOL	DIGITAL		40011		STOP	NONE	NA					W		STOP SIGNAL FROM PCS
4	123	123A90-1724000049HV-PID-00039	Modbus TCP/IP	Resel Alarm From PCS	B100-HSB-001	B100-HSB-001-RA	ModBus TCP/IP	BOOL	DIGITAL		40012		RESET	NONE	NA					W		SIGNAL FOR RESET ALARM
5	124	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77001 VSD Percentage of capacity utilisation	B100-HSB-001	B100-HSB-001-HFM1P	ModBus TCP/IP	INT	ANALOG		40013				NA					R		
5	125	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77002 VSD Percentage of capacity utilisation	B100-HSB-001	B100-HSB-001-HFM2P	ModBus TCP/IP	INT	ANALOG		40014				NA					R		
5	126	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77001 SELECTOR STATUS	B100-HSB-001	B100-HSB-001-SS	ModBus TCP/IP	INT	ANALOG		40015				NA					R		1= AUTO 2= MANUAL 3=OFF
5	127	123A90-1724000049HV-PID-00039	Modbus TCP/IP	HHU-77002 SELECTOR STATUS	B100-HSB-001	B100-HSB-002-SS	ModBus TCP/IP	INT	ANALOG		40016				NA					R		1= AUTO 2= MANUAL 3=OFF