Base Load Power Hub (BLPH)

GENERAL ARRANGEMENT AND DATA SHEET - FRESH WATER PUMP P-50009A/B

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
	18-02-2025

Document Number: 1724000448-MAC-DA-00009

Document Class: 3

Rev.	Date	Description	Prepared	Reviewed	Approved
05	18/02/2025	Issue for Information (IFI)	SF	RM	RM
04	06/12/2024	Issue for Information (IFI)	SF	RM	RM
03	24/10/2024	Issue for Information (IFI)	SF	RM	RM
02	29/08/2024	Issue for Information (IFI)	SF	RM	RM
01	30/07/2024	Issue for Information (IFI)	WR	RM	RM
00	05/06/2024	Issue for Information (IFI)	WR	RM	RM

PSC

Reference: DOC No. PK2885-P-005

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Table of Contents

SH.	DESCRIPTION	REVISIONS							
		00	01	02	03	04	05		
1	Cover	X	X	X	X	X			
2	Table of Contents	X	X	X	X	X			
3	Revision / Change Log	X	X	X	X	X			
4	Drawing	X	X	X	X	X			
5	Data sheet	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.	
3.	
4.	

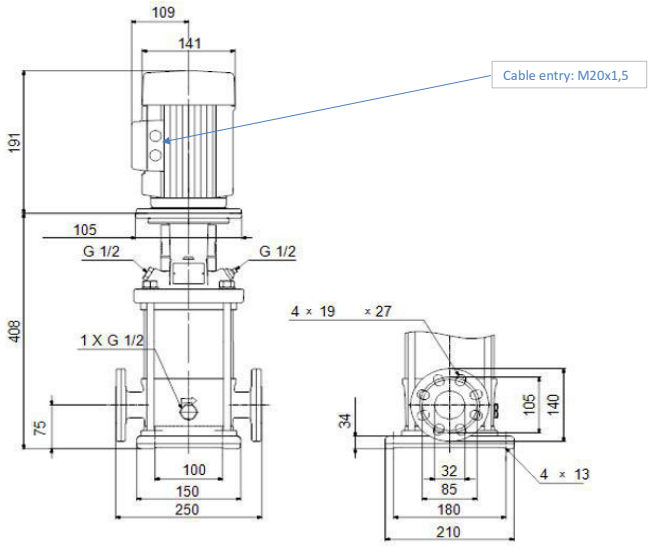
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Supplier: GRUNFOS

Models: CRN 1S-10 E-FGJ-A-E-HQQE

TAG= P-50009A/B

SECTION



REFERENCE DOCUMENTS	
1724000448-MAC-DA-00005	GENERAL ARRANGEMENT DRAWINGS AND FOUNDATIONS LOADING CALCULATIONS
1724000448-PR-PID-00013	WATER TREATMENT PACKAGE-PID DIAGRAM

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CENTRIFUGAL PUMP DATA SHEET

SPECIFICA POMPA CENTRIFUGA

Sh. 5 / 5

		PROJECT: Progetto	HOLLANDSE KUST NOORD WIND PARK Project	LOCATION: Località	Off Shore Hollandse Kust Noord The Nederlands
MOD Mod	CRN 1S-12 E-FGJ-A-E-HQQE	PLANT: Impianto	Water treatment package		
MFR: Fornitori	GRUNDFOS				

DOC N° : Doc N°	PK2885-M-001
CUSTOMER: Cliente	Rosetti Marino S.p.A.
JOB: Commessa	PK2885

1	SERVICE Descrizione	FRESH WATER PUMP (2)		ITEM Item	P-50009 A/B		N° OF UNITS N° di unità	2		
2	APPLICABLE CODE Norme	NONE					TYPE Tipo	Vertical in-line & Centrifugal		
3	WEIGHTS: Pesi	Kg TOTAL WEIGHT: Kg peso totale	25	Kg						
4	**DESIGN CONDITION** CONDIZIONI DI PROGETTO									
5	LIQUID Liquido	FRESH WATER (2)			NORMAL CAPACITY Portata normale	0.8	m^3/h	DESIGN Richiesta	0.1-1.1	m^3/h
6	SOLID IN SUSPENSION Solidi in sospensione	None	% wt		DISCHARGE PRESSURE Pressione di mandata				6.3	bar abs
7	SIZE DISTRIBUTION Granulometria	N/A			SUCTION PRESSURE Pressione di aspirazione massima				1.1	bar abs
8	PUMPING TEMPERATURE (P.T.) Temperatura di pompaggio	10/25	°C		DIFFERENTIAL PRESSURE Pressione differenziale				5.2	bar
9	VISCOSITY AT P.T. Viscosità	1	m Pa sec		DIFFERENTIAL HEAD Prevalenza				52	m
10	SPECIFIC GRAVITY AT P.T. Densità	1000	kg/m^3		OPERATING TIME Tempo operativo				24	Hours/day
11	VAPOUR PRESSURE AT P.T. Tensione di vapore	0.012-0.02	bar abs		SHUT-OFF PRESSURE Pressione di arresto				6.5	barg
12	NPSH AVAILABLE / REQUIRED NPSH richiesto / disponibile	>7 / 2.3	m		MAX. SUCTION PRESS. Pressione di aspirazione massima				1.2	bar abs
13	EFFICIENCY Rendimento	36.8	%		MECH. DESIGN PRESS. Pressione di progetto				25	bar (g)
14	POWER Potenza — ABSORBED AT DUTY POINT Assorbita al punto di lavoro normale	0.33	kW		MECH. DESIGN TEMP. Temperatura di progetto				120	°C
15	ABSORBED AT END OF CURVE Assorbita al massimo carico	0.34	kW		SPEED Velocità				2873	rpm
16	SELECTED MOTOR Nominale	0.37	kW		ROTATION (VIEW FROM MOTOR) Rotazione (vista dal giunto)	☐ C.W. Orario	■ C.C.W. Antiorario			
17	**CONSTRUCTION DATA** DATI COSTRUTTIVI									
18	INSTALLATION Installazione	☐ HORIZONTAL Orizzontale	■ VERTICAL Verticale	☐ IN LINE In linea	LOCATION Posizione	☐ OUTDOOR All'aperto	■ INDOOR Al Chiuso			
19	SUPPORT TYPE Supporti tipo	☐ CENTERLINE In linea	<3> ■ FOOT (3) Piedini	☐ BRACKET Mensole						
20	SPLIT Apertura corpo	■ AXIAL Assiale	☐ RADIAL Radiale							
21	CASING Voluta tipo	■ SINGLE VOLUTE Singola	☐ DOUBLE VOLUTE Doppia	☐ DIFFUSER Diffusore						
22	THREADED CONNECTIONS Connessioni filettate	■ VENT Sfiato	☐ DRAIN Scarico	☐ MANOMETER Manometro						
23	NOZZLE Bocchelli — SUCTION Aspirazione	SIZE Ø DN25	RATING PN25							
24	DISCHARGE Mandata	SIZE Ø DN25	RATING PN25							
25	IMPELLER N° Girante N°	TYPE Tipo	☐ OPEN Aperta	☐ SEMIOPEN Semiaperta	■ CLOSED Chiusa	RATED ø Diametro e	Multistage			
26	RADIAL THRUST BEARINGS MFT & TYPE Cuscinetti tipo	Thrust Bearings, Supplier Standard				LUBRICATION Lubrificazione	Grease for life			
27	COUPLING Giunto	DIRECT TO THE MOTOR			ASSEMBLED BY Montato da	☐ BUYER Cliente	■ PUMP MRF Costruttore			
28	COUPLING GUARD NON-SPARKING Protezione giunto da scintille	☐ YES Si	■ NO No		BASE PLATE Basamento	☐ YES Si	<3> ■ NO (3) No			
29	SEALING Tenuta	■ MECHANICAL Meccanica	☐ PACKING Premistoppa		TYPE Tipo	Single				
30	MECHANICAL SEALING PURCHASED BY Tenuta meccanica fornita da	☐ BUYER Cliente	■ PUMP MFR Costruttore		ASSEMBLED BY Montata da	☐ BUYER Cliente	■ PUMP MFR Costruttore			
31	☐ REDUCTION GEAR Riduttore a ingranaggi	N/A								
32	**MATERIALS** MATERIALI									
33	CASING Corpo	AISI 316		BEARINGS Cuscinetti	SIC					
34	IMPELLER Girante N°	AISI 316		ELASTOMER Elastomeri	EPDM					
35	SHAFT Albero	AISI 316		BASE PLATE Basamento	Cast Iron					
36	**HEATING / COOLING** TUBAZIONI AUSILIARIE									
37–43										
44	**SHOP TEST APPL. CODE** COLLAUDI									
45	According to project ITP Doc. 1724000448-QC-ITP-00002									
46–48										
49	**MOTOR DRIVER** MOTORE DI COMANDO									
50	DRIVER Motore	■ ELECTRICAL MOTOR Elettrico			TYPE Tipo	IEC, 71A	Manufacturer Fornitore	Grundfos <3>		
51	REQUIRED POWER Potenza richiesta	kW 0.37	rpm 2873		Volts/Phases Volt/fasi/Cicli	400/3/50				
52	Shape Forma	V18	Enclosure Protazione	IP55	Execution Esecuzione	Safe Area				
53–56										
57	**REMARKS** Note									
58	(1) INCLUDED: - Eletric motor - Nameplate									
59	(2) pH = 6.5 TDS = 350 ppm (3) Mounting base integral in pump body <3>									

DATE Data	REV Rev	DESCRIPTION Descrizione	FILLED OUT Compilato	CHECKED Controllato	APPR. BY Approvato
18/02/2024	5	Issue for Information (IFI)	SF	WR	RM
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24/10/2024	3	Issue for Information (IFI)	SF	WR	RM
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30/07/2024	1	Issue for Information (IFI)	IT	WR	RM
20/06/2024	0	Issue for Information (IFI)	IT	WR	RM

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