Base Load Power Hub (BLPH)

ELECTRICAL MOTOR DATA SHEET
For Sea Water Lift Progressive Cavity Pumps (P-50001 A/B)

Document Number: 1724000936-MAC-DS-00014

Document Class: 2

03	16/10/2024	Accepted for Construction (AFC)	APD	GLL	AHN
02	06/08/2024	Accepted for Construction (AFC)	APD	GLL	AHN
01	18/07/2024	Accepted for Construction (AFC)	APD	GLL	AHN
00	24/06/2024	Issue for Review (IFR)	APD	GLL	AHN
Rev.	Date	Description	Prepared	Reviewed	Approved

PCM | keep it moving

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Revision / Change Log

Rev.	Description
00	Issue for Review (IFR)
01	Accepted for Construction (AFC)
02	Accepted for Construction (AFC)
03	Accepted for Construction (AFC)

HOLDS LIST

No.	Description
1	
2	
3	
4	

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IEC LV Motors	Technical Data Sheet - DOL			
	HOLLANDSE KUST NOORD WIND PARK Project		Location: Netherlands	
Department/Author: Rakesh Purushohama	Customer name: PCM		Customer ref: GIAN-392481	Item name: PM-50001 A/B
Our ref.: CQ813220	Rev/Changed by: C	Date of issue: 07/06/2024	Saving ident: cq813220.xlsm	Pages: 3(4)

No.	Definition	Data	Unit	Remarks	
1	Product	***TEFC, 3-phase, squirrel cage induction motor***			
2	Product code	***3GBP 132 260-BDK***		Calc. ref.	3GZF021013-1094
3	Type/Frame	***M3BP 132SMF 4***			
4	Mounting	***IM3011, V1(flange)***			
5	Rated output P_N	***5,5***	kW		
6	Service factor	***1***			
7	Type of duty	***S1(IEC) 100%***			
8	Rated voltage U_N	***400***	VD	± 5 % (IEC 60034-1)	
9	Rated frequency f_N	***50***	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n_N	***1463***	r/min		
11	Rated current I_N	***11,9***	A		
12	No-load current	***5,8***	A		
13	Starting current I_s/I_N	***7,6***		Meet IEC 60034-12, N,(H at 60 Hz)	
14	Nominal torque T_N	***36***	Nm		
15	Locked rotor torque T_S/T_N	***2,8***			
16	Maximum torque T_{max}/T_N	***3,5***			
17	Minimum torque T_{min}/T_N	***2,5***			
18	Speed at minimum torque	***255***	r/min		
	Load characteristics (IEC 60034-2-1:2014)	Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	*100*	**11,9**	**89.6 / IE3**	**0,74**
20		*75*	**9,8**	**89,8**	**0,68**
21		*50*	**8**	**88,7**	**0,56**
22		*Start*	**90**		**0,43**
23	Maximum starting time from hot	***12***	s		
24	Maximum starting time from cold	***21***	s		
25	Insulation class / Temperature class	***F / B***			
26	Ambient temperature	***40***	°C		
27	Altitude	***1000***	m.a.s.l.		
28	Enclosure	***IP56***			
29	Cooling system	***IC411 self ventilated***			
30	Bearing DE/NDE	***6208-2Z/C3 - 6208-2Z/C3***			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	***70***	dB(A)	at load	
33	Moment of inertia J = ¼ GD2	***0,0295***	kg-m2		
34	Balancing				
35	Vibration class				
36	Position of terminal box	***Top***			
37	Terminal box entries; no, dimens.	***2 x M25***			
38	Number of power terminals	***6 x M5***			
39	Direction of rotation	***CW or CCW***			
40	Weight of rotor	***21***	kg		
41	Total weight of motor	***81***	kg		
42	Dimension drawing no.				
43					
44					
45					
Ex-motors (N/A)					
46					
47					
48					

Option Variant Codes / Definition

49	+066 Modified for non-standard mounting position
50	+403 Degree of protection IP56. Applicable to Motor and Terminal Box
51	
52	

Remarks:

Data based on situation 3/7/2024
All data subject to tolerances in accordance with IEC
Guaranteed values on request

CROSSWIND	9 E AA% C 0 Q2 #ÞT QS#Ç E E P0 #Z £C 0 #M% P@#Mf£{nj‡ . £ ¡ ‡ëaj #Ç £ ‡# Z ÐÆZ M . Ð ˜ " ° Ð ´	ROSETTI MARINO
0 £ j · ~ n ¡ #Šv‡hø	2A2 . SP :. #B E SE P#0 % S% #Q9 22S	Qu#, #£s#, Date : 16/10/2024 Rev. 03

Applicable to : Proposal Purchase As Built | PAGE ____ OF ____ REQ'N NO. NA

DESIGN, MANUFACTURE & TESTING SHALL CONFORM TO SPECIFICATION : 123A90-DDL-EL-SP-20084 - Technical Specification for LV Motors

FOR CROSSWIND UNIT

SITE BLPH - Hollandse Kust Noord (HKN)

SERVICE SEA WATER LIFT DRIVEN EQUIPMENT TYPE PUMP DRIVEN EQUIP. ITEM NO.: P-50001 A/B QUANTITY: 2

MANUFACTURER ABB MODEL: 3GBP 132 260-BDK SERIAL NO. TBC FRAME NO: IEC 132

NOTE: INFORMATION TO BE COMPLETED BY: PURCHASER MANUFACTURER PURCHASER OR MANUFACTURER

OPERATING CONDITIONS (1)

Site Data: HOLLANDSE KUST NOORD WIND PARK

Altitude: Less than 1000 Other ____ (m)

Ambient Temperature: Min/Max -8 / 25 (°C)

Electrical Characteristics:

Volts 400 Phase 3 Hertz 50

Starting Voltage: Full Reduced ____ %

Volt Dip +10/-20' % Loaded Unloaded

Installation: Indoor Outdoor YES

Operating Mode Continuous Standby Intermittent YES Alter.

Electrical Area Classification ____ Unclassified YES

Class ____ Group ____ Division ____

Unusual Conditions Dust Fumes

Gasses/Vapours ____

Ignition Temp ____ (°C) Temperature Code ____

PERFORMANCE

Nameplate Power 5,5 (kW) 1463 (rpm)

Load	Current (AMPS)	Efficiency	Power Factor
Full	11,9	89,6	0,74
75%	9,8	89,8	0,68
50%	8	88,7	0,56
Locked Rotor	90		0,43

No Load Current: 5,8 (A)

Starts per Hour: 2 Hot 2 Cold

Full Load Torque: 36 (N-m)

L. R. Torque: 280 %FLT

Breakdown Torque: 350 %FLT

Acceleration Time: 0,1 (sec)

CONSTRUCTION FEATURES

Enclosure TEFC YES WP1 WP2

Explosion Proof Other SAFE AREA

Insulation Class B YES F YES Other

Non-Hygroscopic Tropicalized

Temperature Rise: ____ (°C) Above ____ (°C)

By: ____ @ ____ S.F.

NEMA Torque Design A B C D

Locked rotor kVA Code ____

Mounting

Horizontal Foot Mounted Flange Mounted YES

Vertical YES Shaft Up Shaft Down YES With Canopy YES

Coupling

Supplied By John Crane Mounted By PCM

Suitable for Belt Drive N/A

Bearing type Ball YES Roller Sleeve

Bearing Lubrication Grease YES Ring Oil Oil Mist

Grease Fitting Plugged Alemite Other YES

Bearing Shielding Single Double Sealed for Life

Motor Rotation (facing end opposite shaft extension) YES

CW CCW Bidirectional YES

Fan Reversible Unidirectional

Non-Sparking YES Aluminium Non-Metallic YES

Main Terminal Box Location TOP F-1 F-2

Space Heater (2) N/A (kW)

Volts 230 Phase 1P+N+PE Hertz 50

Max. Sheath Temperature ____ (°C)

Winding Temperature Detectors (not mandatory but provided as standard)

No. per Phase ____ Type: ____

Bearing temperature Detectors

Location N/A Type: N/A

Separate JB for Space Heaters, Winding/Bearing Detectors

Adjustable Frequency Drive

Speed range: From N/A (rpm) to: N/A (rpm)

Materials of Construction

Frame Cast Iron

Junction Box Cast Iron

Copper Bar Rotor

Stainless Steel Filters

Differential Pressure Switch for Inlet Filters

Vertical Jackscrews

Ground Connection

Drilled and tapped Hole in Conduit Box

Ground Lug Size M6 (mm)

Motor Thrust Load None N/A (N)

Thrust Direction Toward Away

Motor Thrust Rating

Nameplate Material 316 SS YES Other

TESTING & MISCELLANEOUS

Testing	Required	Witness
Routine Test		
Complete Test	YES	
Noise Test		
Certified Results		

Weight Net ____ (kg) Shipping ____ (kg)

Painting Mfr. Std. Other IEEE 841

Noise Design

Max sound Pressure Level @ ____ (m) ____ dBA

Expected Sound Pressure Level @ ____ (m) ____ dBA

Notes:

(1) Refer to pump DS - Document Number : 1724000936-MAC-DS-00012

(2) space heater NOT necessary according to enviromental conditions (Ref. IOGP S-703 par. 11.3.6.1)

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