

WORLD ENERGY PARAMOUNT
World Energy Renewables Project
Paramount, California

MECHANICAL EQUIPMENT DATASHEET

Document Number A8KM-TF-064-540139-A

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WORLD ENERGY RENEWABLES PROJECT

MECHANICAL EQUIPMENT DATA SHEET FOR 18-P-1823A/B

CARB Diesel Blending Pump

Document Number A8KM-TF-064-540139-A

Fluor Project No: A8KM

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		HAD					AP	'l 61	0			Contrac		BKM		
		LUOR®			CENT	[RIF	UGAL P	NU	IP DATA	SHEE	T	Item No		3-P-182		
		_										Revisio	n: 0	D	ate: 6	6-Dec-23
		and	1	-	Г	oc N	lo · A8KM	I-TF-	064-5401	30-Δ		Unit:			ast Tar	nkage
		wori	d ener	gy		,00. TV	10 7 tor tivi		00+ 0+01	00 /1		P.O. No	.: SI	VI00001	022	
				N					modified f		n the	Inquiry	No.: 4-	601G-F	RQ.	
					an	nex of	API Stand	dard 6	610, 11th E	dition.		Sheet	2 of	11		REV
1	CI	LIENT: World Energ	gy Paramo	unt				PRO	JECT: W	orld Energ	gy Ren	newables Pr	oject			
2	SI	ERVICE : <mark>Carb Diese</mark> l	Blending	Pump		FACI	ILITY: Wor	rld En	nergy Renev	vables Pla	nt	SITE : Para	mount, C	4		
3	N	O. REQ'D : 2 x 100%	Note 2.1) P	UMP SIZE :		1.5x3	3x8-1		API TYPE	:	OH2	NO.	STAGES:	0	ne (1)	
4	M	ANUFACTURER :		•	Sulzer				MODEL	:	ОНН	SER	IAL NO. :			0
5	Al	PPLICABLE TO :	() P	ROPOSALS		PI	URCHASE		O AS-BU	ILT			_			0
6							GEN	IERAL	<u>_</u>							
7		PUMPS OPERATE	IN:		NO	D. MOT	FOR DRIVE	N:	Two (2)	NO	. TURBINE I	ORIVEN:		N/A	
8		WI	тн :			PUN	MP ITEM NO). :	18-P-182	3A/B		PUMP IT	EM NO. :			
9		GEAR ITEM N	0.:			MOTO	OR ITEM NO). :	18-P-1823	M/BM	-	TURBINE IT	EM NO. :			
10		GEAR PROVIDED	BY:		МОТ	OR PF	ROVIDED B	Y :	Pump Su	plier	TURE	BINE PROVI	DED BY:			
11		GEAR MOUNTED	BY:		MO	TOR M	OUNTED B'	Y :	Pump Sup	plier	TURE	BINE MOUN	TED BY:			
12	(GEAR DATA SHEET N	0.:		MOTOR	DATA	SHEET NO). :	Attach	ed TU	IRBINE	DATA SHE	ET NO. :			
13			LIQUI	D CHARAC	TERIST	ICS										
14			UNITS	MAXIMUM	RA	TED	MININ	ИИМ		SERVICE	:	ı	NTERMITT	ENT		
15	LIC	QUID TYPE OR NAME:			Carb	Diese	I			*IF INTER	MITTE	NT, NO. OF	STARTS /	DAY:	Vari	es
16	VA	POR PRESSURE :	psi (a)		0	.01				CORROS	ION DI	UE TO: (6.12	2.1.9) :			
17	REI	LATIVE DENSITY:			0	.79						TO: (6.12.1.	,			
18		SPECIFIC HEAT : BT	U/lbm ºF		0	.50				H₂S CON	CENTF	RATION (ppr	nw) (6.12.1			
19		VISCOSITY:	сР		2	.70						WET (YES / NO)	:		
20			OPERA	TING CONE	DITIONS	(6.1.2)			CHLORID	E CON	NCENTRATI	ON (ppmw))		
21			UNITS	MAXIMUN	1 RAT	ΓED	NORMAL		MINIMUM	ji		SIZE (DIA. II				
22		NPSHa DATUM	:		C.L. IN	/IPELL	ER (Note 2.	.2)		PARTICU	LATE (CONCENTR	ATION (pp	n		
23		PUMPING TEMP	.: °F	160			110	Ť				ESIGN TEN		_	160	
24		FLOW	: gpm		10	00			30					\		
25		DISCHARGE PRESS	٠.		74	.8										
26	5	SUCTION PRESSURE	,	20	-1											
27		IFFERENTIAL PRESS	1 (0)		76											
28		DIFFERENTIAL HEAD			22											
29		NPSH,		(Note 2.2)			Excludes Req. Ma	argin(109	% of NPSHA)							
30		HYDRAULIC POWER	,	(******	4.				,							
31			.,				AND UTIL	ITY C	DATA (6.1.	2)						
32	LOC	ATION:						_	DLING WATI		OURCE		COOLING	3 TOWE	R	
33		OUTDOOR	UN	HEATED					JPPLY TEM		°F		W. RETURN			F
34	MOL		RADE		TROPICA	LIZATI	ION REQ'D		ORM. PRES		psi(g	n) DESIGN	N PRESS. :	120		
35		CTRICAL AREA CLAS	SIFICATIO	O NON	I HAZARD	OUS			AXIMUM RE		_	,	psi(g)		po.(g/	
36	CLA			IVISION :			E T3C		AXIMUM ALL				1 - (3)			
37		DATA:				550			HLORIDE C			_	m DESI	GN T: 1	50 °F	
38		/ATION (MSL)	9 ft	BAROME	ETER :	14.7	psia					P	220	·· <u>-</u>		
39		GE OF AMBIENT TEN				104	°F	INST	TRUMENT A	IRMAX. :		psi(g) MIN. :		psi(g)
40		ATIVE HUMIDITY: MIN		Averag		54	<u> </u>		CH. DESIGN	_		psi(g	_		°F	
41		SUAL CONDITIONS :						STE		_		19	_			
42		1									D	RIVERS	HEATI	NG		
43	UTIL	ITY CONDITIONS:						TE	EMP: °	F MAX.	_					
44		CTRICITY: DRIVER	RS HEA	TING CO	NTROL	NSTRL	JMENTS			MIN.	_					
45		OLTAGE: 460		20	120		VDC	PF	RESS.: ps		-					
46		HASE: 3		1	1					MIN.	_					
47		ERTZ: 60		60	60											
48	•															
49							NO	TES								
50	2.1	2 x 100% pumps; 1 o	perating ar	nd 1 spare.												
51		Pump centerline is a			ve grade	and 27	" (2'-3") abo	ove to	op of founda	ation. Actu	ıal cen	terline is 19	" above to	p of for	ındation.	
52							, , ,									
53																
54																
55																
56																
57																
58																
59																

				AP	ri 610	Contract:	A8KM			
	FLUOR	CENT	RIFUG	AL P	PUMP DATA SHEET	Item No:	18-P-1823A/B			
		0				Revision:	0 Date: 6-Dec-23			
					TE 004	Unit:	North East Tankage			
	world energy	D	oc. No.:	A8KM	I-TF-064-540139-A	P.O. No.:	SM00001022			
		Note: This	data shee	at has	been modified from that in the	Inquiry No.:	4-601G-RQ			
					dard 610, 11th Edition.	Sheet 3	of 11 RE			
1	PERFORMANO					RIVER (7.1.5)	01 11			
2	PROPOSAL CURVE NO.: OHH 70-1-1-04 R		3520		DRIVER TYPE:	INDUCTION	MOTOR			
3		M-13605	3320		GEAR:	III DOCTION II	NO 0			
			IN: 6.5	in						
4				_	VARIABLE SPEED REQUIRED:					
5		FFICIENCY:	42.31	%	SOURCE OF VARIABLE SPEED:	_	N/A 0			
6	RATED CURVE BEP FLOW: (at rated impeller	dia.)	97.13	gpm	OTHER:	TI	EFC / IP55			
7	MIN. FLOW: THERMAL: gpm	STABLE :	26.68	gpm	MANUFACTURER:	l	BALDOR 0			
8	PREFERRED OPERATING REGION: (6.1.12)	67.99 to	106.84	gpm	NAMEPLATE POWER:		15 hp 0			
9	ALLOWABLE OPERATING REGION:	26.68 to	119.06	gpm	NOMINAL RPM:		3600 0			
10	MAX. HEAD @ RATED IMPELLER:		263.14	ft	RATED LOAD RPM:		3520 0			
11	MAX. POWER @ RATED IMPELLER: (6.8.9)		10.95	hp	FRAME OR MODEL:		254T 0			
12	NPSHR at CL IMPELLER for RATED FLOW:	_	5.5	ft	ORIENTATION:	но	DRIZONTAL			
13	CL PUMP TO LOWER SIDE OF BASEPLATE:		1.58	ft	LUBE:	_	GREASE			
				_	-					
14	NPSH MARGIN at RATED FLOW:	_	33.9	ft	BEARING TYPE:		TI-FRICTION			
15	•	n,rpm,ft	632		RADIAL: (Qty / Brg. Number)	1	/ 45BC03X30X 0			
16	SUCTION SPECIFIC SPEED LIMITATIC gpr	n,rpm,ft (N	lote 3.1)		THRUST: (Qty / Brg. Number)	1	/ 45BC03X30X 0			
17	SUCTION SPECIFIC SPEED: (6.1.9): gpr	m,rpm,ft	8447		STARTING METHOD:	OPEN VALV	/E (FULLY-LOADED)			
18	MAX. ALLOW. SOUND PRESS. LEVEL / EST.: (6.1.14) @	0 3 ft 85	/ 71.8	dBA	DRIVER DATA SHEET:	A.	TTACHED			
19	MAX. ALLOW. SOUND POWER LEVEL / EST.: (6.1.14) @	@ 3 ft	1	dBA	ACCESSORIES:					
20	MAX. DISCHARGE PRESSURE: (6.3.2)		113	- psig						
21	BASIS: (6.3.2.a, b or c)									
22			C	ONST	RUCTION					
23	API PUMP TYPE: OH2 [Based on AP	PI 610 Definitio		0.1011	CASING MOUNTING:	CENTER	DINE			
	AFTFOWFTTFE. OTZ [Based OTAF	1 0 10 Delli lillo	iioj		CASING TYPE:					
24	NOZZI E CONNECTIONO (C.4.0)					SINGLE V				
25	NOZZLE CONNECTIONS: (6.4.2)				OH3 BACKPULLOUT LIFING DEV	,	2.6) NO			
26	SIZE FACING RATIN	-	OSITION		CASE PRESSURE RATING:					
27	SUCTION 3" RF 300		END		MAWP: (6.3.5) 7	psig	@ 160 °F			
28	DISCHARGE 1.5" RF 300)	TOP		HYDROTEST: (8.3.2.6) 10	D58 psig	@ AMB °F 0			
29	PRESSURE CASING AUX. CONNECTIONS: (6	5.4.1.2)(6.4.3.1)(6.4.3.2)(6.4.3.12	Hydrotest at 1.5 x MAWP	of the Pump Asse	embly.			
30	NO. SIZE TYPE FAC	CING RATING	POSITI	ION	HYDROTEST OH PUMP AS AS	SSEMBLY:	YES			
31	BALANCE/LEAK OFF				SUCTION PRESS. REGIONS D	DESIGNED FOR M	IAWP: YES			
32	DRAIN 1 3/4" SWF F	RF 300	вотто	ОМ	ROTATION: (VIEWED FROM C	OUPLING END)	CCW			
33	VENT (IF NOT SELF VENTING				- IMPELLERS INDIVIDUAL	LY SECURED:	N/A			
34	PRESSURE GAUGE				- BOLT OH 3/4/5 PUMP TO					
35	TEMP GAUGE				- PROVIDE SOLEPLATE F					
	WARM-UP LINE*				ROTOR:	OK 0113/4/31 0K	III O.			
36						EI) (0.4.4.0)				
37	*VENDOR TO ADVISE WARM-UP FLOW IF R			gpm	SHAFT FLEXIBILITY INDEX (SI	, , <u>, , , , , , , , , , , , , , , , , </u>	DDM			
38	DRAIN VALVE SUPPLIED BY:	PURCHASE			FIRST CRITICAL SPEED, WET: (MUL		RPM			
39	DRAINS MANIFOLDED		N/A	V .	COMPONENT BALANCE TO IS	,	, <u> </u>			
40	VENT VALVE SUPPLIED BY:	N/A			SHRINK FIT LIMITED MOVEME	ENT IMPELLERS:	(9.2.2.3)			
41	VENTS MANIFOLDED:		N/A	L						
42	THREADED CONNS FOR PIPELINE SERVI	CE & < 50°C:(6. N/A		COUPLING & GUARD: (7.2.2)	(Note 3.4)				
43	SPECIAL FITTINGS FOR TRANSITIONING:	(6.4.3.3)	NO		MANUFACTURER:	Rexnor	d (Thomas)			
44	CYLINDRICAL THREADS REQUIRED: (6.4.3	3.8)	NO		MODEL:	0494 XTS	SR 71-XXL-XL 0			
45	GUSSET SUPPORT REQUIRED		YES	3	RATING: (POWER/100 RPM)		0.41			
46	MACHINED AND STUDDED CONNECTIONS	S: (6.4.3.12)	NO		SPACER LENGTH:		5 in			
47	TYPE VS6 DRAIN CONN.: (9.3.13.5)	(N/A		ACTUAL SF AT MOTOR NAME	PLATE:	2.85			
48	DRAIN TO SKID EDGE:		NO		RIGID:		N/A			
	BOLTING CONFORMANCE:: (6.1.29.1)		YES		COUPLING WITH HYDRAULIC	FIT: (7 2 10)	NO NO			
49	, ,	A NICI/A CA4F D				, ,				
50	(ISO 261, ISO 262, ISO 724, ISO 965 OR				COUPLING BALANCED TO ISC					
51	SEAL FLUSH CASING CONNS. w/ SECOND	JARY SEALIN			COUPLING WITH PROPRIETA		·			
52			NO		COUPLING IN COMPLIANCE V	, ,	API 610 COMPLIANT			
53					COUPLING GUARD STANDAR					
54	AUX. PIPING TERMINATIONS:				WINDOW ON COUPLING GUA	RD:	YES			
55	NOTES NOTES									
56	3.1 Suction specific speeds greater than 11,	,000 for hydro	carbons a	and 9,0	00 for water (USC units) require s	pecific approval	by the Buyer.			
57	3.2 Deleted									
58	3.3 Nameplate for MAWP at mechanical des	ign temperatu	ıre.							
59	3.4 Coupling guards shall be non-sparking.	-								
60	3.5 Deleted.									
61										

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API 610 CENTRIFUGAL PUMP DATA SHEET

Doc. No.: A8KM-TF-064-540139-A

Note: This data sheet has been modified from that in the annex of API Standard 610, 11th Edition.

_		Officet 4 Of 11	
1		TION (CONT'D)	
2	MATERIAL (6.12.1.1)	BASEPLATE OR SOLE PLATE	
3	APPENDIX H CLASS: S-6: CS / 12% Cr	API BASEPLATE NUMBER:	
4	MINIMUM DESIGN METAL TEMP: (6.12.4.1) 32 °F	BASEPLATE CONSTRUCTION: (7.3.1 FULL TOP DECKING	
5	REDUCED HARDNESS MATERIALS REQ'D: (6.12.1.12.1) NO	BASEPLATE DRAINAGE: (7.3.1) ENTIRE BASEPLATE DRAIN PAN	0
6	APPLICABLE HARDNESS STANDARD: (6.12.1.12.3)	MOUNTING: GROUTED	
7	BARREL:	NON-GROUT CONSTRUCTION: (7.3.13 NOT REQUIRED	
8	CASE: A216 GR. WCB	VERTICAL LEVELING SCREWS: REQUIRED	0
9	DIFFUSERS:	HORIZONTAL DRIVER POSITIONING SCREW REQUIRED	
10	IMPELLER: A743 GR. CA6NM	SUPPLIED WITH - GROUT VENT HOLES YES	0
11	IMPELLER / CASE WEAR RIN 11-13% CHROME / A743 GR. CA40	- DRAIN CONNECTION YES	0
12	SHAFT: A322 GR.4140	MOUNTING PADS SIZED FOR BASEPLATES LEVELING: (7.4 YES	0
13	BOWL (IF VS TYPE):	MOUNTING PADS OR SOLE PLATE TO BE MACHINED: (7.3. YES	
14	INSPECTION CLASS: (API/ISO TABLE 14) LEVEL 2	PROVIDE SPACER PLATE UNDER ALL EQUIP. FEET: (7.3.6)	
15	BEARINGS AND LUBRICATION (6.10.1)	OTHER: Furnish two (2) diagonally opposed grounding provisions per Note 6.9.	
16	BEARING (TYPE / NUMBER):		
17	RADIAL: BALL / 6310-C3	NOTES	0
18	THRUST: BALL / 7311 B-XL-MP-UB	COATINGS REQ'D: (6.12.1.10)	0
19	REVIEW AND APPROVE THRUST BEARING SIZE: (9.2.5.2. NO	4.1) SYNTHETIC OIL REQ'D: (6.10.2.12) NO	
20	LUBRICATION TYPE: (6.11.3)(6.11.4)(9.2.6.1) FLINGER	4.2) PROVISIONS FOR PURE OR PURGE MIST: (6.11.3)	
21	PRESSURE LUBE SYSTEM TO ISO 10438 (9.2.6.4) N/A	4.3) PRESS. / CIRC. LUBE SYSTEM: 9.2.6	
22	ISO 10438 DATA SHEETS ATTACHED	4.4) CONST. LEVEL OILER PREFERENCE: (6.10.2 (Note 4.6)	
23	PRESSURIZED LUBE OIL SYSTEM MTD. ON PUMP BASEPL/ N/A	4.5) Bearing housing isolators shall be Inpro or Equal.	
24		LAT 4.6) Bearing housing oilers shall be Trico 8-oz. constant-level sight fee	
25	EGGATION OF TREGGORIZED EGGE GIEGTGTEM MOONTED ON BACE	Provide a minimum 1" NPS bullseye level gauge.	
26	INTERCONNECTING PIPING PROVIDED B N/A	4.7) Oil drains shall be furnished with an ESCO single-piece sight glass	
27	OIL VISC. ISO GRADE:	4.7) On drains shan be farmoned with all 2000 single piece sight glass	
28	CONSTANT LEVEL OILER: (6.10.2.2) REQUIRED		
29	INSTRUMENTATION	SEAL SUPPORT SYSTEM MOUNTING	-
30	SEE ATTACHED API-670 DATA SHEET: NO	BARRIER/BUFFER RESERV. MTD ON PUMP BASEPL.:(7.! N/A	-
31	ACCELEROMETER OR VELOMETER: (7.4.2.	IDENTIFY LOCATION ON BASEPLAT	
32	QUANTITY:	DENTIL LEGATION ON BAGELEAT	
33	MOUNTING LOCATIONS:	INTERCONNECTING PIPING BY: N/A	
34	DETECTORS REQUIRED:	RESERVOIR(S) SHIPPED SEPARATELY: N/A	
35	THRD'D PROVISIONS ONLY PER ANSI/API 670: (6.10.2.1	MECHANICAL SEAL (6.8)	-
36	QUANTITY:	SEE ATTACHED API 682 DATA SHEET: SEE PAGE 7	_
37	MOUNTING LOCATIONS:	ADDITIONAL CENTRAL FLUSH PORT: (6.8.9) HEATING OR COOLING JACKET REQ'D:	
38	FLAT SURFACE REQ'D FOR MAGNETIC P/U's: (6.10.2.1' YES		_
39		(10.00)	3
40	QUANTITY: 2 MOUNTING LOCATIONS:	SEAL CATEGORY: (6.8.1) Category 2	-
41	MOUNTING LOCATIONS:	HEATING AND COOLING	-
42	VIDDATION DROVIMITY DROPES FOR LIVEROSSALATIO DE ARTICO	COOLING REQUIRED: (6.1.17 NO	
43	VIBRATION PROXIMITY PROBES FOR HYDRODYNAMIC BEARINGS:	COOLING WATER PIPING PLAN:	
44	PROVISION-ONLY FOR VIB. PROBES: (7.4.2.2)	CLG WATER PIPING CONSTR.:	
45	OLIANITITY DED TUDUOT SEASONS	FITTINGS TYPE:	
46	QUANTITY PER THRUST BEARING:	COOLING WATER PIPING MATERIAL	
47	VIBR. MONITORS & CABLES SUPPLIED BY: (7.4.2.4	CLG WTR REQMNTS: (BOTH ENDS IF DOUBLE ENDED)	
48		BEARING HOUSING(S): gpm	-
49	TEMP. DETECTORS FOR HYDRODYNAMIC BEARINGS: (7.4.2.3)	SEAL SUPPORT: (HX, BUFFER, BARRIER, ETC.)	
50	PROVISION-ONLY FOR TEMPERATURE PROBES: N/A	TOTAL COOLING WATER: gpm	1
51	RADIAL BEARING TEMPERATURE PROBES: N/A	HEATING MEDIUM: N/A	
52	QUANTITY PER RADIAL BEARING:	OTHER:	
53	THRUST BEARING TEMPERATURE PROBES: N/A	HEATING MEDIUM PIPING CONSTRUCTION:	_
54	QUANTITY PER THRUST BEARING ACTIVE SIDE:	PIPING & APPURTENANCES	1
55	QUANTITY PER THRUST BEARING INACTIVE SIDE:	MANIFOLD PIPING SYS. FOR PURCHASHER CONN.: (7.5.1.6)	
56	THRD'D T/W's FOR GEARBOX TEMP GAGES: (9.1.3.6)	VENTS: N/A	
57	PRESSURE GAGE TYPE:	DRAINS: N/A	
58	TEMP. MONITORS & CABLES SUPPLIED BY: (7.4.2.	COOLING WATER: N/A	
59		TAG ALL ORIFICES: (7.5.2.4)	
60		SOCKET WELD CONN. ON SEAL GLAND: (7.5.2.8)	

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API 610 CENTRIFUGAL PUMP DATA SHEET

Doc. No.: A8KM-TF-064-540139-A

Note: This data sheet has been modified from that in the annex of API Standard 610, 11th Edition of 11 Sheet -5 RFV SURFACE PREPARATION AND PAINT **INSPECTION & TEST** MANUFACTURER'S STANDARD: NO SHOP INSPECTION: (8.1.1) VES OTHER (SEE BELOW) YES PERFORMANCE CURVE & DATA APPROVAL PRIOR TO SHIPME YES 3 SPECIFICATION NUMBER A8KM-PP-000-500520-A TEST WITH SUBSTITUTE SEAL: (8.3.3.2.b) NO 4 PUMP: MATERIAL CERT. REQUIRED: (6.12.1.8 CASING: YES 5 PUMP SURFACE PREPARATIO IMPELLER: YES 6 PRIMER: SHAFT: YES FINISH COAT: See Note 6.3 YES 8 BASEPLATE OR SOLE PLATE: CASTING REPAIR PROCED. APPROVAL REQ'D: (6.12.2.5)(6.12.3 Note 6.7 10 SURFACE PREPARATION: INSPECTION REQ'D FOR CONN. WELDS: (6.12.3.4.d,e) PRIMER: MAG PARTICLE: 11 FINISH COAT: RADIOGRAPHY: DETAILS OF LIFTING DEVICES: Calcs & NDE Reg'd for Lifts > 20,000 LBS LIQUID PENETRANT: NO SHIPMENT: (8.4.1) **DOMESTIC** ULTRASONIC: NO EXPORT BOXING REQUIRED NSPECTION REQUIRED FOR CASTINGS: (TABLE 14) OUTDOOR STORAGE UP TO 6 MONTHS: YES MAG PARTICLE: YES SPARE ROTOR ASSEMBLY PACKAGED FOR: RADIOGRAPHY: NO ROTOR STORAGE ORIENTATION: (9.2.8.2) N/A LIQUID PENETRANT: NO SHIP'G & STORAGE CONTAINER FOR VERT. STORAGE: (9.2 N/A ULTRASONIC: NO 19 20 N2 PURGE: (9.2.8.4) N/A HARDNESS TEST REQUIRED: (8.2.2.7) (NACE SERVICES) NO SPARE PARTS: ADDITIONAL SUBSURFACE EXAMINATION: (6.12.1.5)(8.2.1.3) 21 NO YES 22 START-LIP-FOR: NORMAL MAINTENANCE: NO METHOD: 23 24 PMI TESTING REQUIRED: (8.2.2.8) YES WEIGHTS Ib 25 COMPONENTS TO BE TESTE See Note 6.4 PUMP ITEM No. DRIVER ACCESSORY BASE TOTAL RESIDUAL UNBALANCE TEST: (J.4.1.2) 26 18-P-1823A NOTIFICATION OF SUCCESSFUL SHOP PRELIM. TEST:(8.1.1.c)(8. 27 337 299 817 1483 NO 30 18-P-1823B 1483 BASEPLATE TEST: (7.3.21) NO 0 28 299 30 HYDROSTATIC TEST OF CASING/HEA NON-WIT 29 HYDROSTATIC TEST OF BOWLS & COLUMN: (9.3.13.2) N/A 30 OTHER PURCHASER REQUIREMENTS PERFORMANCE TEST: NON-WIT 31 COORDINATION MEETING REQUIRED: (10.1.3) YES TEST IN COMPLANCE WITH: (8.3.3.2) 8.3.3.2 32 33 MAXIMUM DISCHARGE PRESSURE TO INCLUDE TEST DATA POINTS TO: (8.3.3.3) 8.3.3.3 34 MAX RELATIVE DENSITY: YES TEST TOLERANCES TO: (8.3.3.4) TABLE 16 35 OPERATION TO TURBINE TRIP SPEED OR ASD OVERSPEED: N/A NPSH TEST PTS./RETEST: (8.3.4.3.1)(8.3.4.3 MAX DIA. IMPELLERS AND / OR NO. OF STAGES: NO NPSH TEST-1ST STAGE ONLY: (8.3.4.3.2) N/A 36 CONNECTION DESIGN APPROVAL: (9.2.1.4) (BB Pumps) N/A NPSH TESTING TO HI 1.6: (8.3.4.3.3) 37 TORSIONAL ANALYSIS / REPORT: (6.9.2.10) (REQ'D IF GEAR OR VFD) 38 N/A PERFORMANCE TEST LIMITED TO 110% SITE NPSHA: (8.3.3.) NO PROGRESS REPORTS: 39 YES RETEST ON SEAL LEAKAGE: (8.3.3.2.d) NO OUTLINE OF PROCEDURE FOR OPTIONAL TESTS: (10.2.5) YES RETEST REQUIRED AFTER FINAL HEAD ADJ.: (8.3.3.7.b)(Mult N/A ADDITIONAL DATA REQUIRING 20 YEARS RETENTION: (8.2.1.1) NO COMPLETE UNIT TEST: (8.3.4.4.1) N/A LATERAL ANALYSIS REQUIRED: (9.1.3.4)(9.2.4.1.3) SOUND LEVEL TEST: (8.3.4.5) FOR INFORMATION ONLY NON-WIT 42 N/A 43 MODAL ANALYSIS REQUIRED FOR VS PUMPS: (9.3.9.2) N/A CLEANLINESS PRIOR TO FINAL ASSEMBLY: (8.2.2.6) NON-WIT 44 DYNAMIC BALANCE ROTOR ASSEMBLY TO ISO G1.0: (9.2.4.2.3) N/A LOCATION OF CLEANLINESS INSPECTION: @ SUPPLIERS 45 INSTALLATION LIST IN PROPOSAL: (10.2.3.I) NO NOZZLE LOAD TEST: NO VFD STEADY STATE DAMPED RESPONSE ANALYSIS: (6.9.2.3) N/A CHECK FOR CO-PLANAR MOUNTING PAD SURFACES: NON-WIT 46 MECH, RUN TEST AT RATED CAPACITY UNTIL OIL TEMP STABLE: (8.3.4.2 NON-WIT TRANSIENT TORSIONAL RESPONSE: (6.9.2.4) N/A 47 48 BEARING SELECTION & LIFE CALCS PER (6.10.1.1) & (6.10.1.6): YES HR. MECH RUN TEST AT RATED CAPACITY AFTER OIL TEMP STABLE: NO NON-WIT 49 IGNITION HAZARD ASSESSMENT TO EN 13463-1 FOR EXPLOSIVE ATM: (7.2. N/A 1 HR. MECH RUN TEST AT RATED CAPACITY: (8.3.4.2.2) CASING RETIREMENT THICKNESS DWG: (10.3.2.3) N/A 50 NO BEARING HSG, RESONANCE TEST: (8.3.4.7) FLANGES REQ'D IN PLACE OF SOCKET WELD UNIONS: (7.5.2.8 YES N/A STRUCTURAL RESONANCE TEST: (9.3.9.2) 51 INCLUDE PLOTTED VIBRATION SPECTRA FOR PERF, TEST: (6 YES REMOVE / INSPECT HYDRODYN BRGS AFTER TEST: (9.2.7) N/A 52 53 CONNECTION BOI TING: (7.5.1.7) AUXII IARY FOUIPMENT TEST: (8.3.4.6) N/A YES CADMIUM PLATED BOLTS PROHIBITED: EQUIP. TO BE INCLUDED IN AUX. TESTS 54 YES VENDOR TO KEEP REPAIR AND HT RECORDS: (8.2.1.1.c) 55 YES LOCATION OF AUX. EQUIPMENT TEST VENDOR TO SUBMIT TEST PROCEDURES: (8.3.1.1) 56 VENDOR SUBMIT INSPECTION CHECK LIST:(8.1.5) YES 57 TEST REQUIREMENTS PER 8.3.3.5a THROUGH 8.3.3.5d: YES MPACT TEST: (6.12.4.3) PER EN 13445 N/A 58 DISASSEMBLE AND INSPECT AFTER TEST: (8.3.3.8) NO PER ASME SECTION VIII N/A 59

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REMOVE CASING AFTER TEST:

		IIOD		610	Contract:				
		UOR _®	CENTRIFUGAL P	UMP DATA SHEET	Item No:		18-P-1823A/B		
					Revision:	0	Date:	6-Dec-23	3
		world energy	Doc. No.: A8KM-	TF-064-540139-A	Unit:		East Ta	nkage	
		worldenergy			P.O. No.:	SM000			
				een modified from that in the	Inquiry No.:	4-601G			
				ard 610, 11th Edition.	Sheet 6	of 11	ı	F	REV
1			PRESSURE VESSEL DES	SIGN CODE REFERENCES					
2	_	THESE REFERENCES MUST BE LIS	STED BY THE MANUFACTURER:						
3		CASTING FA	CTORS USED IN DESIGN: (TABLE	3)					
4		SOURCE OF	MATERIAL PROPERTIES:						
5									
6			WELDING A	ND REPAIRS					
7	THE	ESE REFERENCES MUST BE LISTE	D BY THE PURCHASER (DEFAULT	TTO TABLE 11 IF NO PURCHAS	ER PREFERENC	E IS STATE	ED)		
8		ALTERNATIVE WELDING CODES	S AND STANDARDS:						
9		WELDING REQUIREMENT: (APP	LICABLE CODE OR STANDARD)		DEFAU	LT PER TA	BLE 11		
10		WELDER/OPERATOR QUALIFICA	ATION:						
11		WELDING PROCEDURE QUALIF	ICATION:						
12		NON-PRESSURE RETAINING ST	RUCTURAL WELDING SUCH AS B	ASEPLATES OR SUPPORTS:					
13		MAGNETIC PARTICLE OR LIQUID	PENETRANT EXAMINATION OF F	PLATE EDGES:					
14		POSTWELD HEAT TREATMENT:							
15		POSTWELD HEAT TREATMENT	OF CASING FABRICATION WELDS	:					_
16									_
17			MATERIAL	INSPECTION					
18	THE	ESE REFERENCES MUST BE LISTE		DEFAULT TO TABLE 14:	YES				_
19		FERNATIVE MATERIAL INSPECTION		32171021 10 171322 1111					
20	/ (_ !		to find floor if into a chireful.						
21		TYPE OF INSPECTION	METHOD	FOR FABRICATIONS	EOP	CASTINGS	2	- H	_
	DΛΓ	DIOGRAPHY	WETTIOD	TORTABRICATIONS	TOIX	OAOTIIVOC	,		_
22	l	RASONIC INSPECTION							_
23									
24		GNETIC PARTICLE INSPECTION							_
25		JID PENETRANT INSPECTION							
26	VISI	JAL INSPECTION (ALL SURFACES							_
27									
28		I=	NO	TES					
29		Deleted.							
30	6.2	Deleted.							
31									
32	6.3	CMTR's are required for pressure	• • • •			у рата вос	oks.		_
33	6.4	PMI is required for alloy pressure of		inas, pipe, and vaives, per Proje	ct Specification				_
34 35	6.5	A8KM-PP-000-500512-A, Positive M Witnessed performance testing is		a witnessed NDCU test is require	ad Machaniaal	taatina		****	_
	0.5		<u> </u>	•				rea	_
36		intervals, and four (4) hours for mu	t shall be one (1) hour at Rated poi					n (10)	_
37		business days advance notice.	ini-stage pumps with protied vibra	iron specira ai so minute interva	is. All Withesset	i testing ret	quires te	11 (10)	_
38 39	6.6	Deleted.						 	
40	- 5.5							—— 	
41	6.7	Minor defects of a surface nature i	n the pressure casting (amounting	to less than 20% of the wall thic	kness and lees	han 10 in² i	65 cm ² 1	in total	
42	l	may be repaired without Buyer's a				19 111	, 50 0111]		
43	6.8	Deleted.	, , , , , , , , , , , , , , , , , , ,						
44									
45	6.9	Baseplate grounding tabs or lugs	shall be 1/4" thick steel with at leas	st one (1) 9/16" dia, hole provide	d. If two (2) are	provided, th	nev shall	be	
46		9/16" dia. spaced 1-3/4" on center.							
47		either two (2), or four (4), 1/2"-13 h				(,= .	,		
48			,						
49								—— J	
50								—— 	
51								—— 	
	1							—— 	
52 53									
53 54									
55									
56								 	
57								 	
58									
59									
		İ							

				API 682 MECHA	NICAL SEAL DATA	Contract:	A8KM		
	FI	LUOR				Item No:	18-P-1823A/B		
				Эг	IEET	Revision:	0 Date: 6-Dec	c-23	
						Unit:	North East Tankage		
		worl	ld energy	Doc. No.: A8KM	-TF-064-540139-A	P.O. No.:	0		
				Note: This data sheet has	been modified from that in the	-	4-601G-RQ		
				annex of API Standard 6	82, Third Edition. (See Note	Inquiry No.: Sheet 7	of 11	REV	
		Sit 4			9.3)			REV	
1	_	Client:	World Energy Par			Renewables Proje	ect		
2	_	Service:	Carb Diesel Blend		Vorld Energy Renewables Plant				
3		lo. Seals Required			Paramount, CA	-			
4	N	NOTES: Informat	tion Below to be Co		•	By Manu	ufacturer or Purchaser		
5	L				Ref. 4.1, Figures 1 to 6)				
6		CATEGORY	Seal Category 1	Seal Category 2	Seal Category 3 Seal	Code (Annex D)	21A-FFN-048-11/61	0	
7	Т	YPE ■	Type A (3.1.90)	Type B (3.1.91)		te Stationary (Ty	pe A&B)		
8	(0	CODE CW)	Type C (3.1.92)	Alternate Rotatir	ng (Type C) 🛛 Single 🤄	Spring (Type A)			
9	Α	ARRANGEMENT D	efault Configuration	Alternate Design	Flush Pla	ns (See Annex C	3)		
10		1 (3.1.2) ₀	■ 1CW-F	C O 1CW-FL O C	Dist. Flush 🖸 01	O 13 O 23			
11	ĺ			Alternative Bush	02 🛭	🖸 14 🔯 31			
12	ĺ	<mark>⊠</mark>			■ 11 B	21 🖸 32			
13		2 (3.1.3)	Liquid 🖸 2CW-C	W 🛛 FX 🔘 🖸	Dist. Flush	0 13 0 23	Q 41 Q 62 Q 75		
14	ĺ	Iffe		Tangential LBO	Connection	O 14 O 31	52 71 76		
15		B	Gas 🖸 2CW-C	_		🖸 21 🔯 32	□ 61 □ 72		
16	H	3 (3.1.4)	Liquid 3CW-FE			13 D 53A			
17		rrie ,		☐ 3CW-FF ☐ T		☐ 14 ☐ 53B			
18		Ba	Gas 🖸 3NC-BB		NC-FB				
19	5	SLEEVE-SHAFT DR	·			ecify:		1	
	Ĕ	ELL'IL GITAL I DI			6.1.6 & ANNEX B) (Note 7.3)			-	
20	CE/	CONDARY CEALC		`_			LDADTO	-	
21	_	CONDARY SEALS	SEAL FAC				L PARTS	+	
22			_		10276 (ТуреВ 🛛 UNS N1027		NS S31600 / S31635	0	
23		Spiral Wound Gasl			07718 (TypeC or UNS I		NS N10276		
24		EPM/EPDM 🖸		C D RB-SIC D UNS NO			NS N08020		
25		Other:		vs Other:	or UNS S	S31635 🖸 Ot	ther:		
26				MECHANICA	L SEAL DATA				
27		O Seal Vendor:	John Crane		Dynamic Sealing Pressu	re Rating (3.1.27	7) 515 psig		
28		O Data Requiren	nents Form (Annex	J)	Static Sealing Pressure I	Rating (3.1.84):	800 psig		
29		Size / Type :	1	.89" / 1648	Maximum Allowable Tem	nperature (3.1.51	1) 400 °F	0	
30		☐ Seal Drawing I	No.:	GA-276950-1	Min. Design Metal Temperature (6.1.6.11.1 32 °F				
31		Vendor's Seal	Code: X F	147 1 X D81 H 316/HC	☐ Generated Heat at Norm	al Conditions :	1108.2 BTU/hr	0	
32		☐ Modified Faces	s For Pump Perforn	nance Test	☐ Heat Soak at Normal Co	nditions :	-25.6 BTU/hr		
33		☐ Alternative Sea	al For Pump Perfori	mance Test	☐ Total Seal Axial Thrust o	n Shaft :	162.5 lb		
34	H		·		A (REFERENCE 6.1.2.4)			1	
35	H	API 610	☐ ASME B73.1&		Tapered ISO 3069	-C O Other:		1	
36	ĺ	O Bolt-On Chami		,	sh Port Req'd D Seal Chai				
37		☐ Floating Throa			Chamber Heating	Chamber C			
	 	1 loading 11110a	a Dusting Let		P DATA	_ Chamber C	Journal	-	
38	\vdash	Monuter - time	Sulzer			2000 Mataria	· Carbon staal	-	
39	ĺ	Manufacturer :						0	
40					· •	n Press. (Rated)			
41		Seal Chamber Pre		psig		☐ MSSP (3		-	
42		Shaft:	Horizon			Shaft Sp	eed : 3520 RPM	0	
43	L	Snatt Rotation	(Viewed From Driv		□ cw —			0	
44	L				TES				
45	7.1			acturer for finalization of seal	<u> </u>				
46	7.2	Seal Manufacturer s	hall consider the Lic	uid Characteristics and Oper	ating Conditions on sheet 2.				
47	7.3	Seal Manufacturer s	shall recommend sea	I face material, elastomers an	d spring material based on pur	nped fluid propert	ties.		
48	7.4	Deleted.						0	
49	7.5	Deleted.						0	
50									
51									
52									
53									
54							·		

	FLUOR		NICAL SEAL DATA EET	Contract: Item No:	A8KM 18-P-1823A/B	
		01.	:	Revision:	0 Date: 6-Dec	:-23
		Dog No : ARKM	-TF-064-540139-A	Unit:	North East Tankage	
	world energy	DOC. NO AORIVI	-11-004-340139-A	P.O. No.:	0	
			een modified from that in the	Inquiry No.:	4-601G-RQ	
			Third Edition. (See Note 9.3)	Sheet 8	of 11	REV
1	DUMPED OTDEAM (DI AND 64 00 44	FLUID				
2	PUMPED STREAM (PLANS 01, 02, 11		O Hazardous O Flamr			
3	 Type or Name Carb Diesel Dissolved Contaminant O H₂S: 		O Fluid Solid at Ambient		°F	
4	O Cl ₂ : ppm O Other	• • • • • • • • • • • • • • • • • • • •	^	Pour Point :	°F	
5 6	O Solid Contaminant :	: @ wt%	O Pumped Stream Solidifie		1-1	
7	O Conc'n (Mass Fract. or PPM)		O Pumped Stream Contain	U		
8	Fluid Temp.: Min °F Norm	110 °F Max 160 °F	Specify Agents : O Pumped Stream Can Pla	to Out or Docon		
9	• Spec. Gravity :@ Norm. Temp.: 0		Specify Conditions :		npose.	
10	Vapor Pressure : @ Norm Temp.:		O Pumped Stream is Regul		o or Other Emissions	
11	@ Max Temp.: psi(a)		Regulation Level :			
12	O Atmospheric Boiling Point :	°F	O Special Pump Cleaning Proced		170	
13	• Viscosity: Normal 2.70 c		O Alt. Process Fluids (incl. Comm		cify:	
	FLUSH FLUID (PLAN 32		O Vapor Press @ Norm. Temp			1
14 15	O Type or Name :	Conc'n : %	O Viscosity @ Normal Tem			
16	O Seal Vendor Review Required		O Atmospheric Boiling Poin		°F	
17	O Fluid Temp :Min °F Norm	°F Max °F	☐ Flow Rate Reg'd Max. / N		/ gpm	
18	O Spec. Gravity :@ Norm. Temp.:	@ Max. Temp.	☐ Pressure Req'd Max. / M		/ psig	
19	QUENCH MEDIUM (PLAN 62)	© Max. Tomp.	Supply Temperature Max		/ °F	
20	Type or Name :		☐ Flow Rate Req'd (@STP for ga		·	
				15) Wax. / Willi	/gpm	
21	BUFFER / BARRIER MEDIUM (PLAN	52, 53, 54, 72, 74)	Specific Gravity:	6 M	-	
22	Type or Name :	1)/ 1 0 1 6	@ Normal Temperature :	@ Ma	x. Temp. :	
23		eal Vendor Selection	Vapor Pressure at :			
24		urchaser Review		sia Max. T	「emp.:psia °F	
25	Flow Rate Req'd (@STP for Gas) Max. / I		Atmospheric Boiling Poin			
26 27	Supply Pressure Max. / Min.:	/psig	Viscosity at Normal PumSpecific Heat Capacity at		cP BTU/lbºF	
28	Min.: °F Normal :	°F Max.: °F	☐ Cooling / Heating Require		B10/lb1	
	Willi	SITE AND				-
29	● Control Voltage : V :	120 Ph : 1 Hz : 60	Cooling Water Supply Temp. N	lorr 90 °E	Cl ⁻ : < 840 ppmw	1
30	• Area Class: Cl.: I		Cooling Water Supply Press. N Cooling Water Supply Press. N			
32	Design Ambient (Min. / Max.) :	35 / 104 °F	Cooling Water Allowable		10.0 psi	0
33	O ATEX (Ex Directive 94/9/EC): Gr.:	Cat.: T-CLASS: T3C	Cooling Water Allowable Cooling Water Allowable	<u> </u>	40.0 °F	-
	THEN (EN BIRCOUVE 34/3/EG) . GI	ACCESSORIES (Temp. 1436 .	1	-
34	GENERAL		COOLING SYSTEMS (PLAN	21 22 22 41 52	52B 52C)	-
36	O Joint User / Vendor Layout of Equ		O Heat Exchanger Supplier	1,22,23,41,32	.,,	
37	-) ISO 7 () ASME B1.20.1	Water Cooled A	ir Cooled O	ISO 15649	
38	O Special Requirements For Hazard		Equipment Reference / C			
39	Define :		OCooling Water Line Supplie			
40	O Special Cleaning and Decontamir	ation Requirements			2.21) O Gal CS Piping	
41	O Utility Manifold Connections Requ	•	O Sight Flow Indicators (8.2			
42	O Type and Spec. of Heat Tracing (, ,	Cooling Water Flow Requireme			
43	, , , , , , , , , , , , , , , , , , ,	,	Primary Equipment :		ΔP psi	
44	O Thermal Relief Valves Required (9.8.3)	☐ Secondary Equipmer			
45	PLAN 11, 12, 13, 14, 21, 23, 31, 32 and	I 41 SYSTEMS	PLAN 72 and 74 SYSTEMS		·	
46	Connecting Line Supplier :	PUMP SUPPLIER	O Equipment Supplier :			
47	O Tubing Piping (8.3.5.2	(Note 8.2)	O High Flow Alarm Switch ((8.3.10.5)		
48	Restriction Orifice Nipple in Flush	Line (8.3.5.4)	PLAN 75 and 76 SYSTEMS	•	_	
49	O Cyclone Separator Supplier :		O Equipment Supplier :			
50	O Plan 32 Equipment Supplier :		O High Level Alarm Transm	nitter For Plan 7	5 (8.3.9.3.3)	
51	O Plan 32 Flow Indicator O Plan	n 32 Temp. Indicator	O Test Connection (8.3.9.3			
52	O Pla	n 23 Temp. Indicator				
53		NO.	ΓES			
54	8.1 Pump Supplier has unit responsibility for			n seal flush Plans	s	
55	8.2 Primary seal flush piping shall be 300# A					
56	8.3 Orifice size shall be stamped on each ori	fice, with direction of flow indi	cated. Orifice assembly shall be	tagged with Buy	er's orifice tag number.	
57						

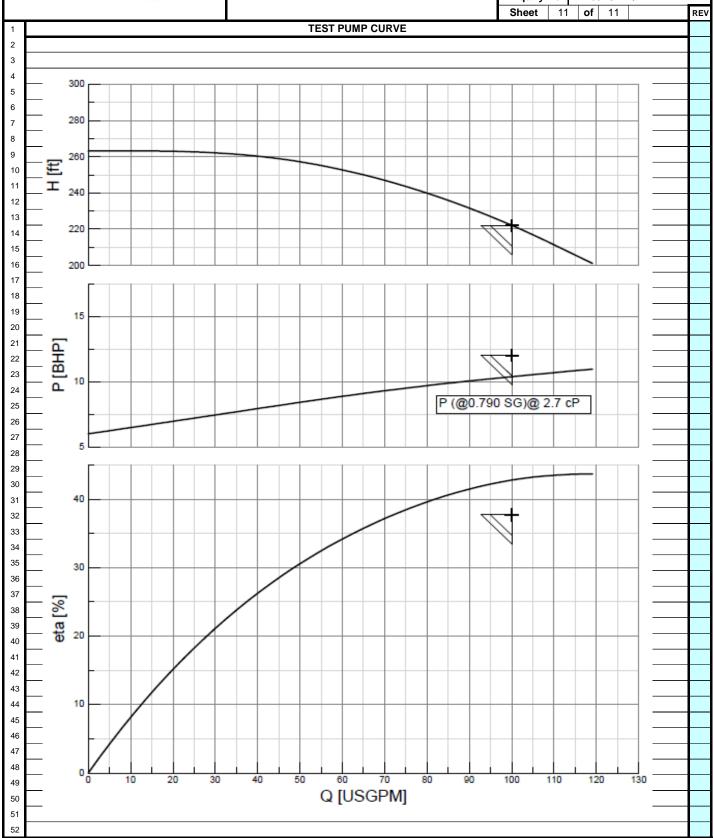
FLUOR _®	API 6		CAL SEAL DATA	Contract:	A8KM			
FLUUK _®		SHE	ĒΤ	Item No:	18-P-1823A/B			
	_			Revision:	0 Date: 6-Dec-			
world ene	rav D	oc. No.: A8KM-TF	F-064-540139-A	Unit: P.O. No.:	NORTH East 18	ankage		
	, 55	data abaat baa baa	n modified from that in the	Inquiry No.:	4-601G-RQ			
			n modified from that in the hird Edition. (See Note 9.3)	Sheet 9	of 11	REV		
1			and 9) CONTINUED	Olloot 6	0			
2 PLAN 52 AND 53 SYSTEMS		•	EN 13445 or Other Code	Applicable				
3 Standard (Fig. G.35)	Alternative		Reservoir Capacity (8.3.6.			gal		
	tions To Standard Figur		NLL to Gland Plate Height			ft		
5						°F		
6 Dimensional Varia	tions To Standard Figur	e G.36 :		. / Min.	/ p	sig		
7			System Hold-Up Period (F	Plans 53B & 530	C):	days		
8 Alternative Fabrica	ation Standard :	0	Temperature Indicator (Pla					
9 O Primary Equipment Su		0	Pressure Alarm Setting (8					
10 Supplier Referenc			Rising Pressure (Arr 2	2) Set at :	p	sig		
11 O Connecting Line Suppl			☐ Falling Pressure (Arr		p	sig		
- 3	H. 80 Piping (8.2.9)			-				
O Equipment Support Su	pplier :		3		•			
O Filling System Supplier	r:				ulating Device			
15 O ASME Code Stamp Re	equired		zatornar on oalating r amp	(8.3.7)				
17		INSTRUMENT	ATION					
18 O User Specification Ref	erence For Instrumentat	tion / Controls :						
19								
Pressure Gauges (9.4)	(0.4.0)							
O Oil Filled Pressure Gar								
Pressure Transmitters (9.5 Level Transmitters (9.5 3)		eu of Transmitters						
Level Transmitters (9.5.3) O Hydrostatic (Std. Option,		ieu of Transmitters O Ultra	conic					
25 Level Indicators (9.6)	o.o.o/ O Capacitance	O Ollia	SOITIC					
26 O Weld Pad (Std. Option	9.6.1O External Rem	novable (9.6.2)						
27 Flow Instruments (9.7):	, o.o. i) = External, item	10 Vable (3.0.2)	O Transmitters	(9.5.4)				
28		INSPECTION AN						
29 O Purchaser Participation	n in Inspection & Test	0	100% Inspection of All We	lds (6.1.6.10.5)	Using:			
30 Specify:	·		O Magnetic Particle	O Liquid Pe				
31 O Inspector's Check List	(10.1.7 & Annex H)		O Radiographic	O Ultrason	ic			
32 O Purchaser Approval Re	eq'd For Welded	0	Optional Qualification Tes	ting Required (1	10.3.2)			
Connection Design								
O Hardness Test (10.2.3	k) Required For :		Alternate Seal Pump Test	(10.3.6.2), Sea	Page 1, Line 33	}		
35		NOTES	3					
36 9.1 Deleted.								
37	ADLCOG OLD FINE C	of Donounce Lead	ADI 000 411 E 1111	D	hall ba to C.D.			
38 9.2 Seal Data Sheets are in the A 39 compliance with API-682, 4tl		at. Paragraph referer	ices are to API-682, 4th Editio	m. Pump seals s	man be in full			
40 Compliance with AFI-662, 4 th	. Latton.							
41								
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		LOW VOL	TAGE MO	COR (IFFF 8.	41)	Contract:		A8KM			
F	LUOR		DATA SH	-	··/	Item No:		18-P-1823	AM/BM		
•		us	CUSTOMA		-	Revision:		0	Date:	6-Dec-23	-
				SPECIFICATION	N	Unit:		North East		0 000 20	-
W	orld energy		8KM-PP-000-		_	RFQ / P.O	No ·	4-601G-RC			
				064-540139-A		Sheet	. 110	10 of	11		Rev
	ABBUGABUE TO			PURCHASE		O AS BUIL		10 01	11		0
1	APPLICABLE TO					AS BUIL		sh Disaal Disa	dia a Duma		ı L
2		rld Energy Par			ERVICE	2 NO (NO D		rb Diesel Blen		. = (0)	-
3		rld Energy Re	newables Pla			G NO. / NO. R		18-P-1823		/ Two (2)	-
4	SITE: Par	amount, CA		DR	RIVEN EQI	UIPMENT TYP	PE / TAG NO.	Centrifugal	Pump /	18-P-1823A/B	
5				DESIGN DA	TA AND	ACCESSOR	Y EQUIPMEN	Т			
6	NAMEPLATE	15 HP	1.15 S.F	7. 3520 RP	PM	,	LTAGE/PHASE			3 / 60	0
7	ROTATION (WHE	N FACING MOT	FOR OPPOSITE	,	O CW		√ Fans sha	II be bi-directi	onal		
8	INSULATION CLA	ASS: O B	● F	Он	O VPI	TEMP. F	RISE CLASS			O C AMBIENT	
9	AREA CLASSIFIC	_		, GROL	JP I	B/C/D	DIV. 2	● T-R	ATING T3C /	°F	
10			UNCLASSIFIE								
11	LOCATION:	O INDOOR		OOR O SHELT				O DUST O			
12			TEMPERATURE			/ MIN.	35 °F	ALTITUDE			
13	ENCLOSURE:	TOTALLY-E	_				NONVENTILA	TED O EXI	PLOSION PROOF		
14	MOUNTING MET		FOOT	O FLANG			214/11	VEDTICAL SUIT	TUD		-
15	MOUNTING ARR	_	HORIZO			AL SHAFT DO	_	VERTICAL SHAF	_		
16	BEARING TYPE:		O ROLLE			ICATION:	GREASE	O 01L	O PURE OIL M	IST	-
17	CONNECTION TO	_	DIRECT CON	_	V-BELT		ROUGH GEAR	O CLOSE		/DAY Waster	ı
18	EQUIPMENT OP SOUND PRESSU		CONTINUOU		SPAREI	D CONTINUO dBA @	US 3	FEET	MITTENT-CYCLES	/ DAY Varies	
19 20	STARTING:		FULL VOLTA			OLTAGE,	80		AGE Starting Volta	ago Din Allowanco	ıl
	STARTING.	_	UNLOADED						AGE Starting Voite	<u> </u>	-
21 22	O SPACE HEA		V						ICTOR CORRECTI	ION	0
23											
24	• •										
25	TEST										
20											
26	REMARKS: 10 1						REPO		OT FLATNESS		F
26 27) This data shee							OT FLATNESS		0
26 27 27	10.2)) This data shee	et applies to mo	otors 1/2 hp throu					OT FLATNESS		0
27	10.2) 10.3)) This data shee	et applies to mo	otors 1/2 hp throu					OT FLATNESS		0
27 27	10.2) 10.3)) This data shee Deleted. P55 degree of p	et applies to mo	otors 1/2 hp throu	ugh 500 h	p with anti-fri	iction bearings.		OT FLATNESS		0
27 27 28	10.2) 10.3)) This data shee Deleted. P55 degree of p Average relative	et applies to mo	otors 1/2 hp throu quired. %.	ugh 500 h	p with anti-fri	iction bearings.	NDOR	OT FLATNESS NO. Z23010314	47 / Z2301031452	0
27 27 28 29	10.2) 10.3) 10.4)) This data shee Deleted. P55 degree of p Average relative	orotection is received humidity is 54	otors 1/2 hp throu quired. %. FORMATION BE	ELOW TO	p with anti-fri	iction bearings.	NDOR		47 / Z2301031452 299 LB	
27 27 28 29 30 31 32	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN) This data shee Deleted. P55 degree of p Average relative	protection is receipt in the second s	quired. %. FORMATION BE MODEL FULL LOAD RPI	ELOW TO	D BE COMP 09-0000 3520	LETED BY VE 0-4243 FRAME	SERIAL 254T	NO. Z23010314		0
27 27 28 29 30 31	10.2) 10.3) 10.4) MOTOR MFR. NAMEPLATE HP) This data shee Deleted. P55 degree of p Average relative	protection is receipt in the second s	quired. %. FORMATION BE MODEL FULL LOAD RPI	ELOW TO	D BE COMP 09-0000 3520 MOTOR	LETED BY VE	SERIAL 254T	NO. Z23010314		0
27 28 29 30 31 32 33 34	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU) This data shee Deleted. P55 degree of p Average relative 1 E DRAWING NO ATERIAL OF CO FACTURER	protection is recent humidity is 54 INI ABB IS DINSTRUCTION	quired. %. FORMATION BE MODEL FULL LOAD RPI	ELOW TCL M CD0006	D BE COMP 09-0000 3520 MOTOR	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC	SERIAL 254T ERIAL 03X30X	NO. Z23010314 . WEIGHT	299 LB	0
27 28 29 30 31 32 33 34 35	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M) This data shee Deleted. P55 degree of p Average relative 1 E DRAWING NO ATERIAL OF CO FACTURER	protection is recent humidity is 54 INI ABB IS DINSTRUCTION	quired. %. FORMATION BE MODEL FULL LOAD RPI	ELOW TCL M CD0006	D BE COMP 09-0000 3520 MOTOR	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC	SERIAL ERIAL	NO. Z23010314	299 LB	0
27 28 29 30 31 32 33 34 35 36	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO) This data sheet Deleted. P55 degree of payerage relative 1 E DRAWING NO ATERIAL OF COFACTURER DR THRUST BE.	orotection is recent humidity is 54 INI ABB IS ONSTRUCTION ARING: TYPE	quired. %. FORMATION BE MODEL FULL LOAD RPI	ELOW TO	D BE COMP 09-0000 3520 MOTOR PACITY: UP	LETED BY VE 0-4243 FRAME WINDING MAT SIZE 45BCC LBS	SERIAL 254T ERIAL 03X30X DOWN	NO. Z23010314 WEIGH1	299 LB ON	0
27 27 28 29 30 31 32 33 34 35 36 37	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO) This data shee Deleted. P55 degree of p Average relative 1 E DRAWING NO ATERIAL OF CO FACTURER DR THRUST BE. FULL	orotection is received humidity is 54 INI ABB 5 DNSTRUCTION ARING: TYPE	quired. %. FORMATION BE MODEL FULL LOAD RPI	ELOW TCL M CD0006	D BE COMP 09-0000 3520 MOTOR PACITY: UP	LETED BY VE 0-4243 FRAME WINDING MAT SIZE 45BCC LBS	SERIAL 254T ERIAL 03X30X DOWN	NO. Z23010314 WEIGH1 LBS LOCATIO	299 LB ONAMPS	0
27 27 28 29 30 31 32 33 34 35 36 37 38	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO	1 This data sheet Deleted. P55 degree of payerage relative 1 E DRAWING NO ATERIAL OF COFACTURER DR THRUST BE. FULL 17.3	orotection is received humidity is 54 INI ABB 5 DNSTRUCTION ARING: TYPE 3/4 13.1	quired. %. FORMATION BE MODEL FULL LOAD RPI	ELOW TO	D BE COMP 09-0000 3520 MOTOR PACITY: UP	LETED BY VE 0-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE*	SERIAL 254T ERIAL 03X30X DOWN	NO. Z23010314 WEIGH1 LBS LOCATIO 32.7 22.4	299 LB ONAMPS FT-LB	0
27 27 28 29 30 31 32 33 34 35 36 37 38	MOTOR MFR. NAMEPLATE HP MOTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, %	1 This data sheet Deleted. P55 degree of payerage relative 1 E DRAWING NO ATERIAL OF CO FACTURER DR THRUST BE. FULL 17.3 91.2	orotection is received humidity is 54 INI ABB 5 DNSTRUCTION ARING: TYPE 3/4 13.1 91.8	quired. %. FORMATION BE MODEL FULL LOAD RPI	ELOW TO	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKEE FULL LC LOCKED I	LETED BY VE 0-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE* ROTOR TORQUE*	SERIAL 254T ERIAL 03X30X DOWN	NO. Z23010314- WEIGHT	299 LB ONAMPS FT-LB FT-LB	0
27 28 29 30 31 32 33 34 35 36 37 38 39 40	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR	1 This data sheet Deleted. P55 degree of payerage relative 1 E DRAWING NO ATERIAL OF CO FACTURER DR THRUST BE. FULL 17.3 91.2 8 89	orotection is received humidity is 54 INI ABB 5 DNSTRUCTION ARING: TYPE 3/4 13.1 91.8 88	quired. %. FORMATION BE MODEL FULL LOAD RPI 1/2 9.71 91.1 80	ELOW TO	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKEE FULL LC LOCKEDI PULL UF	LETED BY VE 0-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE* P TORQUE*	SERIAL 254T ERIAL 03X30X DOWN	NO. Z23010314- WEIGHT LBS LOCATIO 32.7 22.4 32.7 26	299 LB ONAMPS FT-LB FT-LB FT-LB	0
27 28 29 30 31 32 33 34 35 36 37 38 39 40	MOTOR MFR. NAMEPLATE HP MOTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, %	1 This data sheet Deleted. P55 degree of payerage relative 1 E DRAWING NO ATERIAL OF CO FACTURER DR THRUST BE. FULL 17.3 91.2	orotection is received humidity is 54 INI ABB 5 DNSTRUCTION ARING: TYPE 3/4 13.1 91.8	quired. %. FORMATION BE MODEL FULL LOAD RPI	ELOW TO	D BE COMP 09-0000 3520 MOTOR LOCKEE FULL LC LOCKED PULL UF BREAKE	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC LBS DAD TORQUE* ROTOR TORQUE* P TORQUE* DOWN TORQUE	SERIAL 23X30X DOWN 25*	NO. Z23010314- WEIGHT LBS LOCATIO 32.7 22.4 32.7 26 87.8	299 LB ONAMPS FT-LB FT-LB FT-LB FT-LB FT-LB	0
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM	1 This data sheet Deleted. P55 degree of payerage relative 1 E DRAWING NO ATERIAL OF CO FACTURER 17.3 17.3 17.3 17.2 18.8 18.9 18.2	orotection is received humidity is 54 INI ABB 5 DNSTRUCTION ARING: TYPE 3/4 13.1 91.8 88 3544	quired. %. FORMATION BE MODEL FULL LOAD RPI 9.71 91.1 80 3563	ELOW TO L CD0006 SKF CAF	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED FULL LC LOCKED PULL UF BREAKE ACCEL	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC LBS DAD TORQUE* ROTOR TORQUE* P TORQUE* DOWN TORQUE TIME W/ LOAD	SERIAL 254T ERIAL 03X30X DOWN S* (0 TO FULL SPE	NO. Z23010314- WEIGHT LBS LOCATIO 32.7 22.4 32.7 26 87.8 EED)*	AMPS FT-LB FT-LB FT-LB FT-LB SEC.	0
27 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	MOTOR MFR. NAMEPLATE HP MOTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM	1 This data sheet Deleted. P55 degree of payerage relative 1 E DRAWING NO ATERIAL OF CO FACTURER DR THRUST BE. FULL 17.3 91.2 8 89 3522 GUARANTEED	protection is received humidity is 54 INI ABB 5 DNSTRUCTION ARING: TYPE 3/4 13.1 91.8 88 3544 68 dBA /	quired. %. FORMATION BE MODEL FULL LOAD RPI 1/2 9.71 91.1 80 3563 EXPECTED 66	ELOW TO L M CD0006 SKF CAF	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED I PULL UF BREAKE ACCEL. STALL I	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC LBS DAD TORQUE* ROTOR TORQUE* P TORQUE* DOWN TORQUE TIME W/ LOAD	SERIAL 254T ERIAL 03X30X DOWN TO FULL SPERRPM* - HOT/C	NO. Z23010314- WEIGHT LBS LOCATIO 32.7 22.4 32.7 26 87.8 EED)* OLD /	299 LB ONAMPS FT-LB FT-LB FT-LB FT-LB FT-LB	0
27 28 29 30 31 32 33 34 35 36 37 38 40 41 42 43 44	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM	1 This data sheet Deleted. P55 degree of payerage relative 1 E DRAWING NO ATERIAL OF CO FACTURER DR THRUST BE. FULL 17.3 91.2 8 89 3522 GUARANTEED	protection is received humidity is 54 INI ABB 5 DNSTRUCTION ARING: TYPE 3/4 13.1 91.8 88 3544 68 dBA /	quired. %. FORMATION BE MODEL FULL LOAD RPI 9.71 91.1 80 3563	ELOW TO L M CD0006 SKF CAF	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED FULL LC LOCKED PULL UF BREAKE ACCEL. STALL T NUMBE	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC LBS DAD TORQUE* ROTOR TORQUE* P TORQUE* DOWN TORQUE TIME W/ LOAD TIMES AT ZERC R OF CONSECU	SERIAL 254T ERIAL 03X30X DOWN S* (0 TO FULL SPERPM* - HOT / CULTUS STARTS*	NO. Z23010314- WEIGHT LBS LOCATIO 32.7 22.4 32.7 26 87.8 EED)* OLD /	AMPS FT-LB FT-LB FT-LB FT-LB SEC.	0
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	MOTOR MFR. NAMEPLATE HP MOTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM) This data sheet Deleted. P55 degree of payerage relative 1 E DRAWING NO ATERIAL OF COFACTURER DR THRUST BE. FULL 17.3 91.2 8 89 3522 GUARANTEED	protection is received humidity is 54 INI ABB IS INI AB	1/2 1/2	ELOW TO L M CD0006 SKF CAF OTHER	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED FULL LO LOCKED PULL UF BREAKL ACCEL. STALL T NUMBEI * INDICAT	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE* ROTOR TORQUE* DOWN TORQUE TIME W/ LOAD TIMES AT ZERC R OF CONSECUTED AT RATED	SERIAL 254T ERIAL 33X30X DOWN ** (0 TO FULL SPE RPM* - HOT / C JTIVE STARTS*	NO. Z23010314 WEIGHT LBS LOCATION 32.7 22.4 32.7 26 87.8 EED)* OLD /	AMPS FT-LB FT-LB FT-LB FT-LB SEC.	0
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM SOUND LEVEL: 0 FAN MATERIAL) This data sheet Deleted. P55 degree of payerage relative 1 E DRAWING NO ATERIAL OF COFACTURER PR THRUST BE. FULL 17.3 91.2 8 89 3522 GUARANTEED	protection is received humidity is 54 INI ABB IS INI AB	O BE PROVIDED	ELOW TO L M CD0006 SKF CAF OTHER B dBA RKING)	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED I PULL UF BREAKL ACCEL. STALL T NUMBE * INDICAT	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE* ROTOR TORQUE* P TORQUE* DOWN TORQUE TIME W/ LOAD TIMES AT ZERC R OF CONSECUTED AT RATED URCHASE (REI	SERIAL 254T ERIAL 33X30X DOWN * (0 TO FULL SPE RPM* - HOT / C JTIVE STARTS* VOLTAGE ER TO RFQ/PO	DOCUMENTS)	AMPS FT-LB FT-LB FT-LB FT-LB SEC.	0
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM SOUND LEVEL: 0 FAN MATERIAL	This data sheet Deleted. P55 degree of payerage relative 10 E DRAWING NO ATERIAL OF COFACTURER 17.3 P1.2 P1.2 P1.2 P1.2 P1.2 P1.2 P1.2 P1.2	protection is received humidity is 54 INI ABB IS INI AB	### Application	ELOW TO L M CD0006 SKF CAF OTHER B dBA RKING) BY VEND AX. SURF	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED PULL UF BREAKE ACCEL. STALL T NUMBEI * INDICAT	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE* POOWN TORQUE* DOWN TORQUE* DOWN TORQUE TIME W/ LOAD TIMES AT ZERC R OF CONSECUTED AT RATED URCHASE (REI URING NORMA	SERIAL 254T ERIAL 33X30X DOWN * (0 TO FULL SPE RPM* - HOT / C JTIVE STARTS* VOLTAGE ER TO RFQ/PO L STARING OR	LBS LOCATION 32.7 22.4 32.7 26 87.8 EED)* OOLD /	AMPS FT-LB FT-LB FT-LB SEC. SEC.	0
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM SOUND LEVEL: 0 FAN MATERIAL	This data sheet Deleted. P55 degree of payerage relative 10 Average relative 11 E DRAWING NO ATERIAL OF COFACTURER 12 PR THRUST BE. 17.3 91.2 8 89 3522 GUARANTEED INFORMAT CURRENT CURRE	protection is received humidity is 54 INI ABB S S S S S S S S S S S S S S S S S S	potors 1/2 hp throughput produced by the control of	ELOW TO L M CD0006 SKF CAF OTHER B dBA RKING) BY VEND AX. SURF	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED PULL UF BREAKE ACCEL. STALL T NUMBEI * INDICAT	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE* POOWN TORQUE* DOWN TORQUE* DOWN TORQUE TIME W/ LOAD TIMES AT ZERC R OF CONSECUTED AT RATED URCHASE (REI URING NORMA	SERIAL 254T ERIAL 33X30X DOWN * (0 TO FULL SPE RPM* - HOT / C JTIVE STARTS* VOLTAGE ER TO RFQ/PO L STARING OR	DOCUMENTS)	AMPS FT-LB FT-LB FT-LB SEC. SEC.	0
27 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM SOUND LEVEL: 0 FAN MATERIAL SAFE TIME - SPEED - TO SAFE LOCK	This data sheet Deleted. P55 degree of payerage relative 10 E DRAWING NO ATERIAL OF COFACTURER 17.3 P1.2 P1.2 P1.2 P1.2 P1.2 P1.2 P1.2 P1.2	protection is received humidity is 54 INI ABB S S S S S S S S S S S S S S S S S S	### Application	ELOW TO L M CD0006 SKF CAF OTHER B dBA RKING) BY VEND AX. SURF	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED PULL UF BREAKE ACCEL. STALL T NUMBEI * INDICAT	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE* POOWN TORQUE* DOWN TORQUE* DOWN TORQUE TIME W/ LOAD TIMES AT ZERC R OF CONSECUTED AT RATED URCHASE (REI URING NORMA	SERIAL 254T ERIAL 33X30X DOWN * (0 TO FULL SPE RPM* - HOT / C JTIVE STARTS* VOLTAGE ER TO RFQ/PO L STARING OR	LBS LOCATION 32.7 22.4 32.7 26 87.8 EED)* OOLD /	AMPS FT-LB FT-LB FT-LB SEC. SEC.	0
27 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM SOUND LEVEL: 0 FAN MATERIAL SAFE TIME - SPEED - TO SAFE LOCK NOTES:	Deleted. P55 degree of p Average relative 1 E DRAWING NO ATERIAL OF CO FACTURER DR THRUST BE. FULL 17.3 91.2 R 89 3522 GUARANTEED INFORMAT CURRENT CUR RQUE CURVE ED ROTOR TIME	are applies to more than the protection is recently applied to the pro	potors 1/2 hp throughput process 1/2 hp thro	ELOW TO L CD0006 SKF CAF OTHER B dBA RKING) BY VEND AX. SURF/ ROTOR	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED I PULL UF BREAKL ACCEL. STALL T NUMBEI * INDICAT	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE* ROTOR TORQUE* P TORQUE* DOWN TORQUE TIME W/ LOAD TIMES AT ZERC R OF CONSECUTED AT RATED URCHASE (REI URING NORMA O STATO	SERIAL 254T ERIAL 13X30X DOWN 15* (0 TO FULL SPERM* - HOT / CURVE STARTS* VOLTAGE FER TO RFQ/PO L STARING OR OR OR OR OR OR OR OR OR OR	DOCUMENTS) DO ENCLOSURE	AMPS FT-LB FT-LB FT-LB SEC. SEC.	0
27 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	MOTOR MFR. NAMEPLATE HP MOTOR OUTLIN ROTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM SOUND LEVEL: 0 FAN MATERIAL SAFE TIME SPEED - TO SAFE LOCK NOTES: 10.5 Motor name	Deleted. P55 degree of pAverage relative Average relative 1 E DRAWING NO ATERIAL OF CO FACTURER PR THRUST BE. FULL 17.3 91.2 R 89 3522 GUARANTEED INFORMAT CURRENT CUF RQUE CURVE ED ROTOR TIME	protection is received humidity is 54 INI ABB Solution ARING: TYPE 3/4 13.1 91.8 88 3544 68 dBA /	puired. %. FORMATION BE MODEL FULL LOAD RPI 1/2 9.71 91.1 80 3563 EXPECTED 68 (NON-SPAR	ELOW TO L M CD0006 SKF CAF OTHER B dBA RKING) BY VEND AX. SURF/ ROTOR	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED I PULL UF BREAKE ACCEL. STALL T NUMBEI * INDICAT OR AFTER P ACE TEMP. D "F	LETED BY VE 1-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE* ROTOR TORQUE* P TORQUE* DOWN TORQUE TIME W/ LOAD TIMES AT ZERC R OF CONSECUTED AT RATED URCHASE (REI URING NORMA O STATO	SERIAL 254T ERIAL 13X30X DOWN 15* (0 TO FULL SPERM* - HOT / CURVE STARTS* VOLTAGE FER TO RFQ/PO L STARING OR OR OR OR OR OR OR OR OR OR	LBS LOCATION 32.7 22.4 32.7 26 87.8 EED)* OOLD /	AMPS FT-LB FT-LB FT-LB SEC. SEC.	0
27 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 51 52	MOTOR MFR. NAMEPLATE HP MOTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM SOUND LEVEL: 0 FAN MATERIAL SAFE TIME SPEED - TO SAFE LOCK NOTES: 10.5 Motor name 10.6 Provide acce	Deleted. P55 degree of payerage relative Average relative 1 E DRAWING NO ATERIAL OF CO FACTURER PR THRUST BE. FULL 17.3 91.2 R 89 3522 GUARANTEED INFORMAT CURRENT CUF RQUE CURVE ED ROTOR TIME Polate shall indicessory loads on	protection is received humidity is 54 INI ABB 5 DINSTRUCTION ARING: TYPE 3/4 13.1 91.8 88 3544 68 dBA /	puired. quired. %. FORMATION BE MODEL FULL LOAD RPI 1/2 9.71 91.1 80 3563 EXPECTED 68 (NON-SPAF O BE PROVIDED MA O COLD tor, area classificuments, e.g. Volts unents, e.g. Volts	ELOW TO L M CD0006 SKF CAF OTHER B dBA RKING) BY VEND AX. SURF/ ROTOR cation and s, HP, kVA	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED I PULL UF BREAKE ACCEL. STALL T NUMBEI * INDICAT OR AFTER P ACE TEMP. D "F	LETED BY VE D-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE* ROTOR TORQUE* P TORQUE* DOWN TORQUE TIME W/ LOAD TIMES AT ZERC R OF CONSECUTED AT RATED URCHASE (REI URING NORMA O STATO	SERIAL 254T ERIAL 03X30X DOWN 5* (0 TO FULL SPE RPM* - HOT / C JTIVE STARTS* VOLTAGE FER TO RFQ/PO L STARING OR OR OR OR OR OR both external a	LBS LOCATION 32.7 22.4 32.7 26 87.8 EED)* OLD / DOCUMENTS) OPERATION OF: O ENCLOSURE	AMPS FT-LB FT-LB FT-LB SEC. SEC.	0
27 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	MOTOR MFR. NAMEPLATE HP MOTOR CAGE M BEARING MANU VERTICAL MOTO LOAD AMPERES EFFICIENCY, % POWER FACTOR SPEED, RPM SOUND LEVEL: 0 FAN MATERIAL SAFE TIME SPEED - TO SAFE LOCK NOTES: 10.5 Motor name 10.6 Provide acce	Deleted. P55 degree of payerage relative Average relative 1 E DRAWING NO ATERIAL OF CO FACTURER DR THRUST BE. FULL 17.3 91.2 R 89 3522 GUARANTEED INFORMAT CURRENT CUF RQUE CURVE ED ROTOR TIME Date shall indicessory loads on egardless of insertices.	protection is received humidity is 54 INI ABB 5 DINSTRUCTION ARING: TYPE 3/4 13.1 91.8 88 3544 68 dBA /	potors 1/2 hp through the potors 1/2 hp thro	ELOW TO L M CD0006 SKF CAF OTHER B dBA RKING) BY VEND AX. SURF/ ROTOR cation and s, HP, kVA	D BE COMP 09-0000 3520 MOTOR PACITY: UP LOCKED I PULL UF BREAKE ACCEL. STALL T NUMBEI * INDICAT OR AFTER P ACE TEMP. D "F	LETED BY VE D-4243 FRAME WINDING MAT SIZE 45BCC LBS D ROTOR AMPS DAD TORQUE* ROTOR TORQUE* P TORQUE* DOWN TORQUE TIME W/ LOAD TIMES AT ZERC R OF CONSECUTED AT RATED URCHASE (REI URING NORMA O STATO	SERIAL 254T ERIAL 03X30X DOWN 5* (0 TO FULL SPE RPM* - HOT / C JTIVE STARTS* VOLTAGE FER TO RFQ/PO L STARING OR OR OR OR OR OR both external a	DOCUMENTS) DO ENCLOSURE	AMPS FT-LB FT-LB FT-LB SEC. SEC.	0

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PUMP DATA SHEET ANNEX

Contract:	A8KM					
Item No:	18-P-	3				
Revision:	0	Date:	6-Dec-23			
Unit:	North East Tankage					
P.O. No.:	SM00001022					
Inquiry No.:	4-601G-RQ					



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