

EQUIPMENT DATA SHEET (INCL PREDICTED PERFORMANCE CURVE)

CLIENT : Air Products Manufacturing LLC

PROJECT NAME/NO. : WEP Renewables

CLIENT PO NO : 4505605360

HMD DOCUMENT NO : HMD-4505605360-C04-07

CLIENT DOCUMENT NO : FI01/LF01

HMD PUMP NO : 840055 & 840056

EQUIPMENT TAG NO : 18-P-257A/18-P-257S

1	05/09/2022	ISSUE FOR REVIEW	ARM	AFS	NW
0	30/05/2022	ISSUE FOR REVIEW	JLW	AFS	NW
REV	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY
1			·	·	

NOTE:



RESOLUTION SHEET

Comment Number	Document Name: EQUIPMENT DATA SHEET (IN	NCL PREDICTED PERFORMANCE CURVE)	Revision from which comment first appeared	Comment Status: Open\Closed - (Date Closed:)
	CLIENT COMMENT	HMD RESPONSE	Current Rev:	(Date Closed.)
1	33 ELEVATION (MSL 69 ft BAROMETER: 14.7 psia 34 RANGE OF AMBIENT TEMPS: MIN / MAX 35 / 104 105 : AVG / 54 %	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
2	centerline elevation above the pump foundation. A minimum NPSH ma 2.4 Pump Control Method: Flow control valve, Level Control 2.5 Motor shall be rated for Class 1, Div 2, Gr B,C,D and Temperat	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
3	NH3 and CO2. p of foundation. Pump Supplier shall adjust the NPSHa based on the actual pump discharge. Pump will operate on Level Control. argin of 3 ft or 10%, whichever is higher-its required at 110% of Rated flow. Iture Code T3C. ARKM PP-000-400002-A, Structural Data for Mechanical Equipment, and Ask Shart Sh	Pump is suitable for Auto Start providing pump has not been drained, that is pump is still fully flooded with process fluid. Noted, Closed	0	Closed (05/09/2022)
4	8 RATED CURVE BEP FLOW (at rated impeller dia.) 9 MIN. FLOW THERMALE gpm STABLE: 3.6 gpm 10 PREFERRED OPERATING REGION: (6.1.11) 5.04 to 8.64 gpm	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
5	16 NPSH3 at RATED FLOW: 17 CL PUMP TO U/S BASEPLATE: 18 NPSH MARGIN at RATED FLOW: 19 SPECIFIC SPEED: (6.1.16) gpm,rpm,ft CL PUMP TO U/S BASEPLATE: 19 SPECIFIC SPEED: (6.1.16) gpm,rpm,ft	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
6	38 EXTERNAL	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
7	6 REDUCED HARDNESS MATERIALS REQ'D (6.10.1.11 YES 7 APPLICABLE HARDNESS STANDARD (6.10.1.11) MR0103 8 COPPER IN CONTACT W/ PROCESS FLUIDS Not Allowed 9 CASING & COVER: 3161 Stainless Steel (ASTM A351 CF3M)	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
8	14 INNER MAG SHEATH/ROTOR LINE encapsulated) 15 BEARING SLEEVE: 16 BEARING BRUSHINC 17 STATOR HOUSING/FRAME	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
9	55 INSULATION CLASS 56 FULL LOAD AMPS 57 LOCKED MOTOR AMPS 58 START CONDITION OPEN VALVE (FULLY-LOADED)	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
10	PRESSURE CASING OR DRIVER (9.1.1.4): JESIGN CONTAINMENT SHELL FOR VACUUM (6.2.4 CONTAINMENT SHELL VACUUM DESIGN: psig MAGNETIC COUPLING TYPE: WAGNETIC COUPLING TYPE: WAGNETS: OUTER Neodymum (fully encapsulated) Bonded Potted WOUNTING METHOD Dended Bonded Potted	Confirm that the Magnetic Material is in compliance to API 685. Noted, Closed	0	Closed (05/09/2022)
11	MAX TORQUE REQID ON STARTING (9.1.3.7a) PUMP TORQUE AT RATED (+5%), (9.1.3.7b) DESIGN FOR FULL CURVE TORQUE REQUIREMENTS (9.1. TORQUE REQID FOR FULL CURVE (120% BEP), (9.1.3.7c) REQUIRED/ACTUAL SERVICE FACTOR (9.1.3	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
12	DRIVE MAGNET REARING (TYPE/NUMBER): See Note 6.7 for additional requirem RADIAL THRUST THRUST	Noted and updated. Noted, Closed	0	Closed (05/09/2022)

Comment Number	Document Name: EQUIPMENT DATA SHEET (IN	Revision from which comment first appeared	Comment Status: Open\Closed - (Date Closed:)	
	CLIENT COMMENT	HMD RESPONSE	Current Rev:	(Date Closed:)
13	OIL VISC. ISO GRADE CONSTANT LEVEL OILER (9.1.4.2.1) PREFERENCE HOUSING VENT SUMP COLLECTOR REQUIRED (9.1.4.2.2) BEARING HOUSING END SEALS	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
14	SUMP COLLECTOR REQUIRED (9.1.4.2.2) BEARING HOUSING END SEALS SHAFT COUPLING & GUARD: (9.1.5.2)	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
15	BASEPLATE (9.1.5.3) API BASEPLATE NUMBER (9.1.5.3.3): BASEPLATE CONSTRUCTION (9.1.5.3.1.1): BASEPLATE DRAINAGE (7.3.1) MOUNTING:	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
16	TYPE OF SHIPMENT (8.4.1): EXPORT BOXING EXPORT BOXING Timber Box (Certified wood)	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
17	WEIGHTS Ib	Noted and updated. Noted, Closed	0	Closed (05/09/2022)
18	BASEPLATE: BASEPLATE SURFACE PREPARATE PRIMER FINISH COAT	Noted and updated. Noted, Closed	0	Closed (05/09/2022)



WORLD ENERGY PARAMOUNT World Energy Renewables Project Paramount, California

MECHANICAL EQUIPMENT DATASHEET

Document Number: A8KM-18-089-540101-A

Rev. 1, 5-Sep-2022

HMD-4505605360-C04-07



WORLD ENERGY RENEWABLES PROJECT

MECHANICAL EQUIPMENT DATA SHEET FOR 18-P-257 / 257S SLOP OIL PUMP

Document No. A8KM-18-089-540101-A

Fluor Project No: A8KM

1	5-Sep-2022	ISSUE FOR REVIEW	7	ND	ARM	AFS	
0	30-May-2022	ISSUE FOR REVIEW	7	JLW	AFS	NW	
REV	DATE	DESCRIPTION	PAGES	ORIG	CHK'D	APPV'D	CLIENT



SEALESS CENTRIFUGAL PUMP API 685, 2nd EDITION

-				DAIAS	пссі		Unit:	SWSPI	us Unit	
V	vorld energy		Note: This Data Sheet has been modified from that in				Doc. No.: A8KM-18-089-540101-A			
				R of API 685,			Inquiry No.	.: A8KM-4	4-616	
			Aillex	K OI AFI 005,	Second Lu	ition.	Sheet	2 of	7	REV
1	CLIENT: World Energy Par	amount								
2	SERVICE: Slop Oil Pump		F	PLANT: World	Energy Rene	ewables Plant	SITE: Param	ount, CA		
3	NO. REQ'D : 1 (Note 2.1)	PUMP SIZE			TYPE:		RIVEN NO. STA		1	
4		e HMD Kontro			MODEL		A1 ZL SERIAL		840055-056	
		PURCHASE			WODEL	ENT VOO TO D	OLIVIAL		040000-000	
5			N DV DUDOUAGE	D DV 0115	DUED	O by sixu				_
6	INFORMATION BELOW TO BE C			R BY SUP	PLIER	☐ BY EITH				_
7		QUID CHARAC			- KU 11 = -	_	ATING CONDI			
8	LIQUID TYPE OR NAME:	<u> </u>	Slop Oil		Max, Min,	SERVICE :		С	ONTINUOUS	
9	UNITS	S MAXIMUN	NORMAL	RATED	& Rated	*IF INTERMITTE	NT NO. OF STA	ARTS / D		
10	VAPOR PRESSURE: psi (a))		14.7	values	PUMPS OPERA	TE IN:			
11	SPECIFIC GRAVITY:			0.89	refer only	TEMPERATURE	- VAPOR PRES	SS. CUR		
12	SPECIFIC HEAT: BTU/lbm	ı °F		0.5	to the	CORROSION D	JE TO: (6.10.1.8	3)	Note 2.2	
13	VISCOSITY: cP			0.60	property listed	EROSION DUE	TO: (6.10.1.8)	· -		
14		RATING CONF	DITIONS (6.1.2)		liotod		,	(6 10 1	Design for Wet H2S	
15		NITS MAXIMU		NORMAL	MINIMUM	CHLORIDE CON		_	besign for Wet 1120	
	NPSHa Datum	VITO IVIAXIIVIO	C.L. IMPELLER	LL						
16		05 450 0			1e	PARTICULATE	•			
17		°F 150.0	100.0	100.0		PARTICULATE:				
18		ıpm	6.7	6.1		PARTICULATE (JN (ppm		
19	DISCHARGE PRESS: (6.3.2) p	sig	23.9			PARTICULAR H	ARDNESS:			
20	SUCTION PRESSURE: p	sig 83.0	4.9			THERMAL CON	DUCTIVIT Btu/(h	ı-ft-°F)		
21	DIFFERENTIAL PRESSURE:	psi	19.0			THERMAL EXPA	ANSION: in/ii	n/°F		
22	DIFFERENTIAL HEAD:	ft	49.0			POLYMERIZATI	ON CHARACTE	RISTICS:	(6.1.3.3)	
23	NPSH _A :	ft	12.7	Excludes requi	ired 3' margir					
24	HYDRAULIC POWER:	HP	0.87							
25	2.0.02.0 : 01.2.0		2002002	ITE AND UTIL	ΙΤΥ ΠΑΤΑ					-
26	LOCATION:		<u> </u>			ER: IF APPLICAE	21 =			
	OUTDOOR	UNHEATED			OLING WAT		T .	Ì	MECH. DESIGI	NI -
27			TDODIOALIZATI	ON DEOID	TEMP	INLI	I KETUKN		WECH. DESIG	N
28	MOUNTED AT: GRADE		TROPICALIZATI		TEMP	°F	·	MAX	-	
29	ELECTRICAL AREA CLASSIFICATI		NON CLASSIFIE		PRESSURE	psig		MIN	-	
30	CLASS: I GROUP:	B,C,D DI	VISION:		SOURCE		Cooling T			
31	ZONE: GROUP:		TEMP. CLASS	T3C	COOLING WA	ATER CHLORIDE	CONCENTRAT	[(<840 ppm	<u>a</u> w
32	SITE DATA:									
33	ELEVATION (MSL) 69	ft BARO	METER: 14.7	psia INS	STRUMENT A	AIR MAX: N/A	A psig	MIN:	N/A psig	
34	RANGE OF AMBIENT TEMPS: MIN	/ MAX 3	105	°F NI	TROGEN:	MAX:	psig	MIN:	psig	1
35	RELATIVE HUMIDITY: MIN / MAX	A	/G / 54	%						
36	UNUSUAL CONDITIONS:			ST	EAM	Г	RIVERS	HEATING		
37	UTILITY CONDITIONS:				TEMP °	F MAX				
38	ELECTRICITY: DRIVERS	HEATING C	ONTROL Instru	ments		MIN				
39	VOLTAGE 460	120			PRESS. ps	sig MAX				
		1	1	'	,oo. p	MIN				
40						IVIIIN				
41	HERTZ 60	60	60							
42					•					
43				NOTE	S					
44	2.1 1 x 100% pumps. One (1) ope									
45	2.2 Design for wet H2S service. C									
46	2.3 Pump centerline is assumed to b	e 3'-0" above grac	le and 27" above to	p of foundation. I	Pump Supplier	shall adjust the N	PSHa based on th	ne actual pu	Jmp	
47	centerline elevation above the pu	ımp foundation. A	minimum NPSH ma	argin of 3 ft or 10	%, whichever i	s higher, is require	ed at 110% of Rat	ed flow.		
48	2.4 Pump Control Method: Level	Control (Auto S	tart Function)							
49	2.5 Motor shall be rated for Class	1, Div 2, Gr B,0	,D and Temperate	ure Code T3C.						
50	2.6 Pump supports shall meet design		•		00002-A, Struc	tural Data for Mec	nanical Equipmer	nt, and		
51	A8KM-PP-000-200001-A, Plan			,	, , , , , , ,		1.			
52	2.7 18-P-257 has two destinations									
			a case and condit	ione are chosen	ahovo					
53	a) Slop Oil Tank, T-3001. This			ions are snown	above					
54	b) New API Separator. Condit									
55	Flow (gpm): Min 2.4, Norm			Pressure (psig)						
56	Discharge Pressure (psig):	18.4	Different	ial Head (ft): 35	5.0	Hydraulic Po	wer (hp): 0.1			
57	Differential Pressure (psi):	13.5	NPSHa (1	ft): 12.7						
58	The liquid conditions are th	ne same betwee	n both cases.							
59										
60										



Contract:	A8KM
Item No:	18-P-257 / 257S
Revision:	1 Date: 5-Sep-22
Unit:	SWSPlus Unit
Doc. No.:	A8KM-18-089-540101-A
Inquiry No.	: A8KM-4-616

	world energy				No	te This I	Data Sher	et ha	s been modified from that in	Doc. No.: A8KM-18-089-540101-A				
					140				85, Second Edition.	Inquiry No.:	: A8KM-4-	616		
						AIII	IIGA IX OI I	AI I 0	oo, oecona Lamon.	Sheet 3	of 7	7		REV
1							PE	RFOI	RMANCE			,		
2	PROPOSAL CURVE N	IO.:		NIL		RPM	1780		ROTOR CHAMBER TEMP RISE	OPERATING:				
3	As Tested Curve No.								AT RATED CONDITIONS				°F	
4	IMPELLER DIA.: RATE	_	6 12	MA	X: 6.37	5 MII	N: 5.812	in	AT MAXIMUM PUMP FLOW				°F	
5	HYDRAULIC EFFICIEN						8.5		ROTOR CHAMBER TEMP RISE (ON SHLITDOWN			°F	
	HYSTRERESIS & MEC				11.		0.5	HP	TOTOR CHAMBER TEMI RISE C	SIN SHOT DOWN.			'	
6						IENOV.	- 0.5		COUND LEVEL C (AT 2 FT)					
7	RATED POWER:		.87		EFFIC	IENCY:	8.5		SOUND LEVELS (AT 3 FT)					
8	RATED CURVE BEP F		`		,			gpm	MAX ALLOWABLE SOUND PF				dBA	
9			3.6	gpn		ABLE :	3.6	gpm	ESTIMATED MAX SOUND PR			75	dBA	1
10	PREFERRED OPERA	TING	REGION	۷: (6.1. ²	11) 5.	.04 to	8.64	gpm	SYSTE	M DESCRIPTI	ON			
11	ALLOWABLE OPERA	TING	REGION	1 :	0.	.82 to	3.6	gpm	SUCTION VESSEL:		CLO	SED		
12	MAX. HEAD @ RATE	D IMPI	ELLER:				52.14	ft	PUMP LOCATION:	I	BELOW LIC	QUID LEVEL		
13	MAX. POWER @ RAT	CED IN	/IPELLE!	R:			0.88	HP	SUCTION VESSEL ON LEVEL CO	ONTROL?		YES		
14	PERCENT RISE TO SH						6	%	PRESSURE SENSOR ON SUCTION	ON VESSEL?		YES		
15	ORIFICE USED TO ST			VF OR	GIVE CO	NT R	NO		SUCTION VESSEL PRESSURE N		LIQUID I E	VFI PI		
16	NPSH3 at RATED FLO			VE OIL	3172 00		5.33	ft	FLUID VAPOR PRESSURE	W (11417 (1142 D 1	EIQOID EE	72211		
			лтг.							CURE DROBE T	0010W1	A/II I		
17	CL PUMP TO U/S BAS						1.425	ft	IF FLUID LEVEL OR TANK PRES		•			1
18	NPSH MARGIN at RA		LOW:				7.37	ft	SYSTEM AUTOMATICALLY			YES		
19	SPECIFIC SPEED: (6.	.1.16)			gpm,rpm	ı,ft	287.5		WILL THE PUMP RUN DRY IN NO	ORMAL OPERAT	'ION?	NO		1
20	SUCTION SPECIFIC S	SPEE) LIMIT:	:			9,000		REMARKS:					
21	SUCTION SPECIFIC S	SPEE	D :		gpm,rpm	ı,ft	2441							
22							CC	ONSTI	RUCTION					
23	API PUMP TYPE:	OH5	j [B	ased or	API 610	Definitions	;]		CASING MOUNTING:	INL	INE			
24							-		CASING TYPE: (6.3.10)	SINGLE	VOLUTE			
25	NOZZLE CONNECTIO	NS: (F	3 4 5)						ROTATION: (VIEWED FROM CO			CW		
26	SIZE		FACING		ATING	DC.	SITION		CASE PRESSURE RATING:	or Ento Ento,			_	
		. '		,						FC4 main		470	۰-	
27			RF	4	600		N-LINE		` '	564 psig	@		°F	
28	DISCHARGE 2"		RF		600		N-LINE			870 psig	@	100.04	°F	
29	FLANGE THIC						Н		TYPE BOLTING USED ON P	,				
30	PRESSURE CASING A	AUXIL	IARY C	ONNEC	TIONS: ((6.3.3)			AUXILIARY CIRCULATION PIPIN	IG PLAN				
31		NO.	SIZE	TYPE	FACING	RATING	POSITIO	N	PIPING FORM:					
32	PURGE/FLUSH OUT	-	-	-	-	-	-		PIPING MATERIAL:					
33	DRAIN	1	1"	SWF	RF	600	SIDE		PIPING ASSEMBLY:					
34	VENT	1	1/2"	SWF	RF	600	SIDE		IF FLANGED:					
35	PRESSURE SENSOR	1	1/2"	SWF	RF	300	SIDE						_	
36	TEMP SENSOR			-		-			COOLING WATER REQUIREMEN	NTS:	ΝΟΤ Δ	PPLICABLE		
37	WARM-UP LINE								COOLING WATER PIPING PLAN		NOTA	I I LIOABLE		
		-	-	-		-	-							
38	EXTERNAL		-	-	-	-	-		PIPING FORM:					
39	2ND DRAIN	1	3/4"	SWF	RF	300	SIDE		PIPING MATERIAL:					1
40									PIPING ASSEMBLY:					
41	GUSSET SUPPORT	REQ	UIRED ((6.3.3.5):		YES	S	IF FLANGED:					
42	DRAIN CONNECTIO	ON FO	R SECC)NDAR	Y CASING	G	NC)	FOR: JACKET	gpı	m			
43	ROTOR CAVITY DR	RAINAF	BLE THE	ROUGH	12ND DR	AIN:	N/A	A	HEAT EXCHANGER	gpı	m			
44	DRAIN VALVE SUPP	PLIED	BY:				PURCHAS	SER	TOTAL COOLING WATER	gpı				
45	VENT VALVE SUPP	LIED!	BY:						HEATING REQUIREMENTS:	31		PPLICABLE		
46	NO THREAD CONS			ARY C	ASING:		NC)	HEATING MEDIUN	gpm				
47	SPECIAL FITTINGS					2).	NC		HEATING PIPING	MATE	RIAI ·			
					`	,			TIEATING FIFTING	IVIATE	NAL.			
48	CYLINDRICAL THRE			-			NC							
49	MACHINED AND ST	UDDE	רי CON	NECTI(NS (6.3.	3./):	NC	י כ	ROTOR:					
50									IMPELLER TYPE			SEMI-OPEN		
51	51						RENEWABLE IMPELLER WEA	R RINGS REQUI	RED	N/A				
52	2					RENEWABLE CASE WEAR RII	NGS REQUIRED		N/A					
53						COMPONENT BALANCE TO IS	SO 1940 G1.0		YES					
54														
55	3.1 Flanges for spira	l wou	nd gask	ets sh	all have f	lange surf	ace finish			Finishes shall h	e judged h	v visual comr	aı	
56														
	<u> </u>							COF 1	2nd Edition, Section 6.10.1.11					
57	3.2 Reduced nardnes	ss mai	renais a	ne requ	iii ea in a	ccoruance	with API	000, 2	ina Edition, Section 6.10.1.11					
58														
59														



Contract: A8KM

Item No: 18-P-257 / 257S

Revision: 1 Date: 5-Sep-22

Unit: SWSPlus Unit

Doc. No.: A8KM-18-089-540101-A

Inquiry No.: A8KM-4-616

MATERIAL (6.10.1.1)	W	orld energ	J Y	Note: Th	nis Data Sheet ha	as been mod	lified from that in	Doc. No.:			01-A	k
CONSTRUCTION (CONTO)					Annex R of API	685, Second	Edition.	. ,				DEV
MATERIAL (6-10-1.1)	1				CONSTRUC	TION (CONT	"D)	Sileet	4 01 7			KEV
APPENDIX H. CLASS			MATERIA	L (6.10.1.1)	JONOTHOU							
MPACT TEST SPECIFICATION	3	APPENDIX H CLAS		<u> </u>	SS	DRIVER TY			<u> </u>			
REDUCED HARDNESS MATERIAS RECORD (s. 10.1.1)	4	MINIMUM DESIGI	N METAL TEMP (6	6.10.4.1 p	sig @ 32 °F	CLOSE COUPLED DESIGN APPROVED (9.1.1.2):						
APPLICABLE HARDNESS STANDARD (9.1.11)	5	IMPACT TEST SP	PECIFICATION		<u></u>	DESIGN FOR REMOVAL OF DRIVE END WITHOUT DISTURBING THE					_	
CARDING A COVER 1518, SIMINES SENI (AST MAS) CFAIN MAPELER M	6	REDUCED HARDNESS MATERIALS REQ'D (6.10.1.1'					PRESSURE CASING OR DRIVER (9.1.1.4): YES					
ACCESSION A COVER SMR. Stainless Steel (ARTM ASTS CFAM)	7	APPLICABLE HAI	RDNESS STANDA	ARD (6.10.1.11)	MR0103	DESIGN CO	NTAINMENT SHELL	FOR VACUU	M (6.2.4			
MARCHEIR	8	COPPER IN CON	TACT W/ PROCE	SS FLUIDS	NOT ALLOWED	CONTAIN	MENT SHELL VACU	UM DESIGN:	psig			1
1	9	CASING & COVE		•	, , , , , , , , , , , , , , , , , , ,	MAGNETIC	COUPLING TYPE:		SYNC	HRONOUS	3	
VEAR RINGS: NA for Barske Impeller	10			<u> </u>	·						_	
CONTAINMENT SHELLISTATOR ILINI PEEK Composite Silicon Carbide STATON DOUBLING FRAME SILICON Experiment Silicon Carbide STATON DOUBLING FRAME SILICON Experiment Silicon Carbide STATON DOUBLING FRAME SILICON Experiment Silicon Carbide STATON DOUBLING FRAME STATON DOUBLING FRAME SILICON Experiment SILICON Experiment STATON DOUBLING FRAME STATON DOUBLING FRAME SILICON Experiment				· · · · · · · · · · · · · · · · · · ·	76 UNS S31803)			· ·		· · · · ·	4	
INNER MAS SHEATHROTOR LIN ¹ Management of the property Proprietary Proprietar				•							4	
SEARING BILDENING SILICON CARDING SILICON CARDING STATOR HOUSING/FRAME N.A STATOR HOUSING/F	13	CONTAINMENTS	SHELL/STATOR LI	Neodymium Iron B	e foron (fully	TEMP. LIMI	F	500		500	4	
BEARING BRUSHIM	14	INNER MAG SHE	ATH/ROTOR LINE	encapsulated)	oron (luny	HERMETIC.	SEALED	No		Yes		
TATOR HOUSINGFRAME	15	BEARING SLEEV	E:	Silicon Carbide	1	NO. OF MAG	GNETS	Propriet	tary Pro	oprietary		1
INSPECTION CLASS LEVEL 2	16	BEARING BRUSH	HINC					RING (9.1.3.				1
PRESSURE VESSEL DESIGN CODE REFERENCES	17											
THESE REFERENCES MUST BE LISTED BY THE MANUFACTURER: DUSIGN (TORQUE REDURSMENTS (8.1. YES SUBMIT SOURCE OF MATERIAL PROPERTIES SASTM DESIGN (TORQUE REGURSMENTS (8.1. YES SUBMIT SOURCE OF MATERIAL PROPERTIES SASTM TORQUE REGUR REQUIREMENTS (8.1. YES SUBMIT SOURCE (P. 10.13.7.) 2.6	-					_	•	′				
SOURCE OF MATERIAL PROPERTIES	-					_		•	·			
TORQUE REQ'D FOR FULL CURVE (120% BEP), (9.1.3.7c) 2.6 ft-80 1 1 1 1 1 1 1 1 1	-						•	, ,			·lb	-
CASTING FACTORS USED IN DESIGN (TABLE 3) REQUIREDIACTUAL SERVICE FACTOR (9.1.3 1.25 / 18.15 1		SOURCE OF M	IA FERIAL PROPE	RIES	ASIM				,		6.11.	-
WELDING AND REPAIRS SUBMIT MAG-COUPLING TORQUE VS TEMP. CURVE YES		CASTING FACTO		NON (TABLE 2)				,	,. (π-ισ	1
ALTERNATE WELDING CODES AND STANDARDS WELDER QUALIFICATION WELDER QUALIFICATION WELDER QUALIFICATION DRIVE MAGNET BEARING (TYPENUMBER): See Note 57 for additional requirem RADIAL N/A 1 1 1 1 1 1 1 1 1		CASTING FACTO		,		_		,				1
BEARINGS AND LUBRICATION (9.1.4) DRIVE MAGNET BEARING (TYPE:NUMBER): See Note 3 f for additional requirem RADIAL		AI TERNATE WEI D										
WELD PROCEDURE QUALIFICATION	-			O I / II I D II I D O		CODIVITI OF		•	•			1
MP OR LP EXAM OF PLATE EDGE	-			101		DRIVE MAG					quiren	n
A	28	MP OR LP EXAM	OF PLATE EDGE				,	1				
ALTERNATE STD/ACCEPT CRITERIA APPLIES	29	POST WELD HEA	AT TREAT			THRUST		1	N/A			1
132 INSPECTION METHOD CASTINGS FABRICATIONS PREFERENCE N/A 1 1 1 1 1 1 1 1 1	30					LUBRICATION	ON METHOD:		N/A			1
INSPECTION METHOD CASTINGS FABRICATIONS PREFERENCE N/A 1 1 1 1 1 1 1 1 1	31	ALTERNATE STD/A	CCEPT CRITERIA	A APPLIES		OIL VISC. IS	O GRADE	_	N	/A		1
RADIOGRAPH SULTRASONIC SUMP COLLECTOR REQUIRED (9.1.4.2.2) N/A 1	32			_		CONSTANT	LEVEL OILER (9.1.4	.2.1)			_	
SUMP COLLECTOR REQUIRED (9.1.4.2.2) N/A 1	33	INSPECTION	METHOD	CASTINGS	FABRICATIONS	PREFERE	ENCE		N/A			1
MAG PARTICLE	34	RADIOGRAPH				HOUSING V	ENT		N/A			1
SHAFT COUPLING & GUARD: (9.1.5.2) COUPLING MANUFACTURER NA (CLOSE COUPLED)	35	ULTRASONIC				SUMP COLL	ECTOR REQUIRED	(9.1.4.2.2)	N/A			1
MOTOR REQUIREMENTS APPLICABLE TO ALL (7.1.2), See Sheet 8 MODEL SPACER LENGTH in MANUFACTURER: BALDOR TRAME OR MODEL: 215T ORIENTATION: VERTICAL ORIENTATION: VERTICAL NAMEPLATE POWER HP 7.5 SERVICE FACTOR NOMINAL RPM 1780 FARTED LOAD RPM VARIABLE SPEED REQUIRED SOURCE OF VARIABLE SPEED VOLTAGE 460 NON-GROUT CONSTRUCTION (9.1.5.3.1.1): FULL TOP DECKING MOUNTING: CEMENTATION (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) MODEL SPACER LENGTH in SPACER LENGTH in SPACER LENGTH in COUPLING MANUFACTURER NA (CLOSE COUPLED) SPACER LENGTH in COUPLING PRIVATION RPN COUPLING BALANCED TO ISO 1940-196.3 (9.1.5.2.3) COUPLING TO ISO 14691 (9.1.5.2.9) COUPLING GUARD STANDARD (9.1.5.2.11.5) SPACER LENGTH in SPACER LENGTH SPACER LENGTH SPACER LENGTH SPACER LENGTH SPACER LENGTH SPACER LENGTH SPACE		_				BEARING H						1
MOTOR REQUIREMENTS APPLICABLE TO ALL (7.1.2), See Sheet 8 MODEL									`			-
## MANUFACTURER: BALDOR ## PRAME OR MODEL: ## ORIENTATION: ## OUPLING BALANCED TO ISO 1940-196.3 (9.1.5.2.3) ## COUPLING TO ISO 14691 (9.1.5.2.11) ## OUPLING GUARD (9.1.5.2.11) ## IGNITION HAZARD ASSESSMENT REQUIRED (9.1.5.2.11.5) ## SPAKK RESISTANT MATERIAL (9.1.5.2.11.6) ## BASEPLATE (9.1.5.3) ## API BASEPLATE (9.1.5.3) ## API BASEPLATE (9.1.5.3.1): ## BASEPLATE (9.1.5.3.1): ## DRAIN PAN HOUNTING: ## OUPLING GUARD (9.1.5.3.1.1): ## BASEPLATE (9.1.5.3.1): ## OUTLAGE ## A60 HOUNTING: ## OPEN DECK DESIGN (9.1.5.3.13): ## OPEN DECK DESIGN (9.1.5.3.14): ## OPEN DECK DESIGN (9.1.5.3.14): ## OUTLAGE ## OUTLAGE HOUNTING: ## OUTLAGE ## A60 H					10) 0	_	MANUFACTURER	NA (C			_	
FRAME OR MODEL: 215T				,		_	NACE / 400 P.D.				ın	
ORIENTATION: VERTICAL COUPLING TO ISO 14691 (9.1.5.2.9) COUPLING TO ISO 14691 (9.1.5.2.9) COUPLING GUARD STANDARD (9.1.5.2.11.) COUPLING TO ISO 14691 (9.1.5.2.11.) COUPLING GUARD STANDARD (9.1.5.2.11.) COUPLING TO ISO 14691 (9.1.5.2.11.) COUPLING GUARD STANDARD (9.1.5.2.11.) COUPLING TO ISO 14691 (9.1.5.2.11.) COUPLING TO ISO 14691 (9.1.5.2.11.) COUPLING GUARD STANDARD (9.1.5.2.11.) COUPLING GUARD STANDARD (9.1.5.2.11.) COUPLING TO ISO 14691 (9.1.5.2.11.) COUPLING TO ISO 14691 (9.1.5.2.11.) COUPLING GUARD SPARK RESISTANT MATERIAL (9.1.5.2.11.5) COUPLING TO ISO 14691 (9.1.5.2.11.) COUPLING TO ISO 14.5.2	-					`		1040 106 2 (JIOF		
COUPLING GUARD STANDARD (9.1.5.2.11) 44 NAMEPLATE POWER HP 7.5 5 SERVICE FACTOR NOMINAL RPM 1780 48 VARIABLE SPEED REQUIRED SOURCE OF VARIABLE SPEED 50 VOLTAGE PHASE 51 VOLTAGE PHASE 52 PHASE 53 HERTZ 60 MINIMUM STARTING VOLTAGE INSULATION CLASS FULL LOAD AMPS 55 INSULATION CLASS 56 FULL LOAD AMPS 57 LOCKED MOTOR AMPS START CONDITION OPEN VALVE (FULLY-LOADED) 60 OPEN VALVE (FULLY-LOADED) 61 OFFICIAL COURT OF NUMBER): 62 RABIAL 64 COUPLING GUARD STANDARD (9.1.5.2.11) IGNITION HAZARD ASSESSMENT REQUIRED (9.1.5.2.11.6) SPARK RESISTANT MATERIAL (9.1.5.2.11.6) BASEPLATE (9.1.5.3.3): N/A BASEPLATE CONSTRUCTION (9.1.5.3.1.1): FULL TOP DECKING BASEPLATE DRAINAGE (7.3.1) DRAIN PAN MOUNTING: CEMENTATIOUS GROUTED NON-GROUT CONSTRUCTION (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) OTHER Furnish two (2) diagonally opposed grounding provisions, Note 6.3 SEPARATE MOTOR DRIVER, See Sheet 7 1 APPLICABLE SPEC: INCLUDE: SPACE HEATE VIB. SENSOR LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL / THRUST / THRUST / THRUST			EL.	21				•	9.1.3.2.3)			
NAMEPLATE POWER		CINICIVIATION.			LITTOAL		,	*				
SERVICE FACTOR NOMINAL RPM NOMINAL RPM 1780 BASEPLATE (9.1.5.3) API BASEPLATE NUMBER (9.1.5.3.3): N/A BASEPLATE CONSTRUCTION (9.1.5.3.1.1): FULL TOP DECKING BASEPLATE DRAINAGE (7.3.1) DRAIN PAN MOUNTING: CEMENTATIOUS GROUTED NO OPEN VALVE (FULLY-LOADED) DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL SPARK RESISTANT MATERIAL (9.1.5.2.11.6) BASEPLATE (9.1.5.3) API BASEPLATE NUMBER (9.1.5.3.3): N/A BASEPLATE CONSTRUCTION (9.1.5.3.1.1): FULL TOP DECKING BASEPLATE DRAINAGE (7.3.1) DRAIN PAN MOUNTING: CEMENTATIOUS GROUTED NON-GROUT CONSTRUCTION (9.1.5.3.13) NOT REQUIRED OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) OTHER Furnish two (2) diagonally opposed grounding provisions, Note 6.3 SEPARATE MOTOR DRIVER, See Sheet 7 1 APPLICABLE SPEC: ENCLOSURE INCLUSE: SPACE HEATE VIB. SENSOR LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST /		NAMEPLATE PO	WER	НР	7.5			,	ED (9.1.5 2 11	.5)		
NOMINAL RPM RATED LOAD RPM VARIABLE SPEED REQUIRED SOURCE OF VARIABLE SPEED NO BASEPLATE (9.1.5.3) API BASEPLATE NUMBER (9.1.5.3.3): BASEPLATE CONSTRUCTION (9.1.5.3.1.1): FULL TOP DECKING BASEPLATE DRAINAGE (7.3.1) DRAIN PAN MOUNTING: CEMENTATIOUS GROUTED NON-GROUT CONSTRUCTION (9.1.5.3.13) NOT REQUIRED PHASE 3 HERTZ 60 NON-GROUT CONSTRUCTION (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) MINIMUM STARTING VOLTAGE NINSULATION CLASS FULL LOAD AMPS FULL LOAD AMPS T.5 SEPARATE MOTOR DRIVER, See Sheet 7 1 APPLICABLE SPEC: ENCLOSURE 1 INCLUDE: SPACE HEATE VIB. SENSOR LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST HERTS PURISH WU (2) diagonally opposed grounding provisions, Note 6.3: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST									•	- /		
API BASEPLATE NUMBER (9.1.5.3.3): N/A API BASEPLATE NUMBER (9.1.5.3.3): N/A BASEPLATE NUMBER (9.1.5.3.3): N/A BASEPLATE CONSTRUCTION (9.1.5.3.1.1): FULL TOP DECKING BASEPLATE DRAINAGE (7.3.1) DRAIN PAN MOUNTING: CEMENTATIOUS GROUTED NON-GROUT CONSTRUCTION (9.1.5.3.13) NOT REQUIRED DPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) WINIMUM STARTING VOLTAGE MINIMUM STARTING VOLTAGE INSULATION CLASS FULL LOAD AMPS T.5 BYPARATE MOTOR DRIVER, See Sheet 7 APPLICABLE SPEC: ENCLOSURE INCLUDE: SPACE HEATE VIB. SENSOR LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST API BASEPLATE NUMBER (9.1.5.3.3): N/A BASEPLATE NUMBER (9.1.5.3.3): N/A BASEPLATE NUMBER (9.1.5.3.3): N/A BASEPLATE NUMBER (9.1.5.3.3): NOT REQUIRED OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) SEPARATE MOTOR DRIVER, See Sheet 7 1 APPLICABLE SPEC: ENCLOSURE INCLUDE: SPACE HEATE VIB. SENSOR LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST	-							•	•			1
VARIABLE SPEED REQUIRED SOURCE OF VARIABLE SPEED BASEPLATE CONSTRUCTION (9.1.5.3.1.1): FULL TOP DECKING BASEPLATE CONSTRUCTION (9.1.5.3.1.1): FULL TOP DECKING BASEPLATE DRAINAGE (7.3.1) DRAIN PAN MOUNTING: CEMENTATIOUS GROUTED NON-GROUT CONSTRUCTION (9.1.5.3.13) NOT REQUIRED OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) MINIMUM STARTING VOLTAGE NON-GROUT CONSTRUCTION (9.1.5.3.13) NOT REQUIRED OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) OTHER Furnish two (2) diagonally opposed grounding provisions, Note 6.3 SEPARATE MOTOR DRIVER, See Sheet 7 APPLICABLE SPEC: ENCLOSURE INCLUDE: SPACE HEATE VIB. SENSOR LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST THRUST	47	RATED LOAD RP	PM			API BASEPI		•	•	/A		
MOUNTING: CEMENTATIOUS GROUTED NON-GROUT CONSTRUCTION (9.1.5.3.13) NOT REQUIRED NON-GROUT CONSTRUCTION (9.1.5.3.13) NOT REQUIRED OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) THERTZ MINIMUM STARTING VOLTAGE INSULATION CLASS F FULL LOAD AMPS FULL LOAD AMPS T.5 LOCKED MOTOR AMPS START CONDITION OPEN VALVE (FULLY-LOADED) THRUST MOUNTING: NON-GROUT CONSTRUCTION (9.1.5.3.13) NOT REQUIRED NON-GROUT CONSTRUCTION (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) THERETZ OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) THERETZ OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) THERETZ OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) THERETZ OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) THERETZ OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) THERETZ OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) THERETZ OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) THERETZ OPEN DECK DESIGN (9.1.5.3.14): PROVIDE	48	VARIABLE SPEE	D REQUIRED		NO		•	•	FULL TOP	DECKING		
VOLTAGE PHASE 3 HERTZ 60 MINIMUM STARTING VOLTAGE INSULATION CLASS FULL LOAD AMPS LOCKED MOTOR AMPS START CONDITION OPEN VALVE (FULLY-LOADED) MON-GROUT CONSTRUCTION (9.1.5.3.13) NOT REQUIRED OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) OTHER Furnish two (2) diagonally opposed grounding provisions, Note 6.3 SEPARATE MOTOR DRIVER, See Sheet 7 1 APPLICABLE SPEC: INCLUDE: SPACE HEATE VIB. SENSOR LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST NON-GROUT CONSTRUCTION (9.1.5.3.13) NOT REQUIRED OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) OTHER Furnish two (2) diagonally opposed grounding provisions, Note 6.3 SEPARATE MOTOR DRIVER, See Sheet 7 1 APPLICABLE SPEC: UBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST	49	SOURCE OF VAF	RIABLE SPEED			BASEPLATE	E DRAINAGE (7.3.1)	•	DRAII	N PAN		
PHASE HERTZ 60 MINIMUM STARTING VOLTAGE INSULATION CLASS FULL LOAD AMPS LOCKED MOTOR AMPS START CONDITION OPEN VALVE (FULLY-LOADED) 60 DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) OTHER Furnish two (2) diagonally opposed grounding provisions, Note 6.3 SEPARATE MOTOR DRIVER, See Sheet 7 1 INCLUDE: SPACE HEATE UIB. SENSOR UBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST OPEN DECK DESIGN (9.1.5.3.14): PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) OTHER Furnish two (2) diagonally opposed grounding provisions, Note 6.3 INCLUDE: SPACE HEATE UIB. SENSOR UBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST	50					MOUNTING	:		CEMENTATIO	US GROUTED		
HERTZ MINIMUM STARTING VOLTAGE INSULATION CLASS FULL LOAD AMPS TOTAL TORROW OPEN VALVE (FULLY-LOADED) PROVIDE STAINLESS SPACER PLATE UNDER ALL EQUIP. FEET (9.1.5.3.6) OTHER Furnish two (2) diagonally opposed grounding provisions, Note 6.3 SEPARATE MOTOR DRIVER, See Sheet 7 APPLICABLE SPEC: ENCLOSURE INCLUDE: SPACE HEATE VIB. SENSOR LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST THRUST	51	VOLTAGE			460	NON-GROU	T CONSTRUCTION ((9.1.5.3.13)	NOT RE	QUIRED		
MINIMUM STARTING VOLTAGE INSULATION CLASS F FULL LOAD AMPS LOCKED MOTOR AMPS START CONDITION OPEN VALVE (FULLY-LOADED) F OTHER Furnish two (2) diagonally opposed grounding provisions, Note 6.3 SEPARATE MOTOR DRIVER, See Sheet 7 APPLICABLE SPEC: ENCLOSURE INCLUDE: SPACE HEATE LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST THRUST	52	PHASE			3		•	•				
FULL LOAD AMPS 17.5 10CKED MOTOR AMPS 58 START CONDITION 17.5 18.6 19.6 19.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10						PROVIDE S	TAINLESS SPACER	PLATE UNDE	R ALL EQUIP.	FEET (9.1	5.3.6)
FULL LOAD AMPS LOCKED MOTOR AMPS START CONDITION OPEN VALVE (FULLY-LOADED) FULL LOAD AMPS SEPARATE MOTOR DRIVER, See Sheet 7 APPLICABLE SPEC: ENCLOSURE INCLUDE: SPACE HEATE VIB. SENSOR LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL / HEADER SPEC: ENCLOSURE INCLUDE: SPACE HEATE VIB. SENSOR LUBRICATION: INCLUDE: SPACE HEATE VIB. SENSOR THRUST INCLUDE: SPACE HEATE VIB. SENSOR LUBRICATION: INCLUDE: SPACE HEATE VIB. SENSOR LUBR												
57 LOCKED MOTOR AMPS 58 START CONDITION OPEN VALVE (FULLY-LOADED) OPEN VALVE (FULLY-LOADED) DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST 1 APPLICABLE SPEC: ENCLOSURE VIB. SENSOR LUBRICATION: RADIAL THRUST					-	OTHER) 6.3	
START CONDITION OPEN VALVE (FULLY-LOADED) INCLUDE: SPACE HEATE VIB. SENSOR LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST THRUST											1	
LUBRICATION: DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST LUBRICATION: LUBR				ODEN VALVE (_						1
DRIVER MOTOR BEARING (TYPE / NUMBER): RADIAL THRUST DRIVER MOTOR BEARING (TYPE / NUMBER):		SIAKI CUNDIIK	אוע	OPEN VALVE (I	OLL1-LUADED)			VIB. SEN	NOUR			
61 RADIAL /								F / NI IMRED	<u> </u>			
62 THRUST								_ / TTOWIDEIX)	, .			
	62					THRU	ST	j				



Note: This Data Shoot has been modified from that

Contract: A8KM 18-P-257 / 257S Item No: Revision: Date: 5-Sep-22 Unit: **SWSPlus Unit** Doc. No.: A8KM-18-089-540101-A

		I	Annex R of		885, Second I		Irat III	quiry No.	.: A8KM-4-6	16
			Amickito	ALI	oo, occoma i	Laition.	S	heet	5 of 7	
1	CANNED MOTOR	PUMP SPE	CIFIC (9.2)		1	PREP <i>A</i>	RATION F	OR SHIPN	MENT (8.4.1)	1
2 MOTOR WIN	DING INSULATION CLA	SS (9.2.2.8)			TYPE OF SHI	PMENT (8.4	1.1):		EXP	PORT
3 SOLID OR LI	DUD HEAT TRANS. ME	DIA ALLOWI	ED IN STATOR?		EXPORT B	OXING			Timber Box (C	Certified wood)
4 DESIGN MOT	OR FOR FREQUENT S	TARTS (9.2.2	2.9)					_		
5 STA	ARTS PER		/ —		N2 PURGE	DURING S	HIPPING (9.2	2.8.4)		
6 IMPACT OI	N LIFF:				N2 PURGE DURING SHIPPING (9.2.8.4) OUTDOOR STORAGE MORE THAN 6 MONTHS YES IF EXPO					YES IF EXPORT
	OR FOR (9.2.2.9):	\times					RAGE (9.2.8.		-	NO
	OR EQUIVALENT REC	UIDED (00)	2.40)			F LIFTING	`	4)		NO
								0		
	ON OF IEEE 252 TEST I	`	,5.2.7.1)				S (include	cost & de	etails w/ pro	
	TOR LINE FOR VACUU	. ,			START - UI	P				YES
	INER VACUUM DESIGN			psig	NORMAL N	MAINTANAN	ICE			YES
12 DECONTAMI	NATION CONNECTION	ON STATOR	१ (9.2.2.11)		SPARE AS	SEMBLY:				
13	SECONDARY CONT	FROL / COM	TAINMENT		OTHER:		Provide w	arehouse s	spare (bare pi	ımp)
14 NFPA RATIN	G:						WEI	GHTS	lb	
15 HEALTH:	FLAMMABILITY:	INST	TABILITY:		ITEM NO.	PUMP	DRIVER	GEAR	BASE	TOTAL
16					18-P-257	756	211	22	712	1701
	B HAZARD BASED PRO	CEDURE								
		JEDONE	1147400							
			HAZARD GROUP							
19 RISK PHRAS	Е		GINOUF							
20										
21 REQUIRED M	MEASURE:						UIREMENTS	,		
22					COORDINAT	ION MEETIN	NG REQUIRE	ED (10.1.3)		YES
23 SECONDARY	CONTROL (3.67)				CASTING RE	PAIR WELD	PROCEDUI	RE APPR R	REQ'D (6.10.2	Note 5.1
24 MAX LEAKAG	SE ON PRIMARY FAILUR	RE:		gpm	MAXIMUM DI	SCHARGE	PRESSURE	TO INCLUE	DE (6.2.3):	
25 FLOW REST	RICTION:	DRY-RU	N MECHANICAL SEA	\L	MAX RELA	TIVE DENS	ITY			YES
	IUFACTURER:	Pror	priatory information			N TO TRIP			-	
27 MATERIAL:			priatory information			. IMPELLER				YES
	0.							0 40 0 4 4)	-	123
28 ELASTOMER			priatory information		CONNECTIO		,	,		
29 MANUFACTU	IRER CODE:	Prop	priatory information		DEMONSTRA					
30					"	N PUMP VE	NDOR SHOP	P (9.1.5.3.5)	NONE
31 SECONDARY	CONTAINMENT (3.65)				DYNAMIC BA	LANCE TO	ISO 1940-1 (gr. G1.0 (6.8	8.4.2)	YES
32 SECONDA	RY SEAL:				INSTALLATIO	ON LIST IN F	PROPOSAL (10.2.3.1)		
33 DESIGN P	RESSURE:			psig	INCLUDE PLO	OTTED VIBE	RATION SPE	CTRAS (6.	8.3.2.1)	YES
34	INSTRUMEN	ITATION (7	.4.2)		CONNECTIO	N BOLTING	COATING		PA	INTED
35 DETECT OPE	R. OUTSIDE ACCEPT.	•			SUBMIT EST. SPL BY OCTAVE BAND					REQUIRED
		HOD:	(,		MATERIAL CI				7)	
LOCATION	•	1105.			CASING		OTT TLEGOTT	LD (0.10.11	., ,	YES
	PROVIDED BY:				IMPELLER				_	YES
	PROVIDED BY.								-	
USE FOR:					SHAFT					YES
40 MONITOR LE	AKAGE INTO SECOND	CASING:	YES		OTHER:		•		taining comp	onents
41 METHOD:			PRESSURE		VENDOR SU	BMIT TEST	PROCEDUR	ES (8.3.1.1)	YES
42 SENSOR B	BY:		SUPPLIER		ADDITIONAL	DATA REQ	UIRING 20 Y	EARS RET	ENTION (8.2.	1.1G)
43 TYPE:			TRANSMITTER							
44 USE FOR:			ALARM			SURF	ACE PREP	ARATION	AND PAINT	
45 MONITOR VII	BRATION:		NOT REQUIRED		MANUFACTU	IRER'S STA	NDARD		YES	
46 METHOD:			-					MFR	R STD per A8KM-PP	-000-500520-A
	N REQUIRED:				PUMP:					
					_			D	AOKA DD AA	0 500520 4
48 SENSOR B						RFACE PRE			A8KM-PP-000	
	ME, USE FOR:				PRIMER		MFR s	std in complia	nce or exceed ISC	
50 MONITOR TE	MPERATURE OF:		NOT REQUIRED		FINISH CO				As Abov	re e
METHOD:					BASEPLATE:					
52 SENSOR B	SY:				BASEPLAT	E SURFAC	E PREPARA	TIC Per	A8KM-PP-000)-500520-A
TYPE:					PRIMER		MFR s	std in complia	nce or exceed ISC) 12944-C4
USE FOR:					FINISH CO	AT		As	Above	
55				N	OTES					
	ects of a surface nature in	the pressure	casting (amounting to b			l thickness s	nd lose than 4	n in ² in total	aroa) may ba	
			sasting (amounting to le	soo iiidl	1 20 /0 OI LIIE WAII	unckness at	iu iess tildli T	o iii iii total	area, may be	
•	without Buyer's approv		annatant lauri I I I I			0 4" 1:-	00 h	lavel ::		
	housing oilers shall be									
•	endor shall provide the	coupling fro	m the UEM of their c	noice.	. IT Kexnord is	not Vendor	s standard,	tnen Vend	or snall provi	ae an optional
60 quote fo	r a Rexnord coupling.									



Note: This Data Sheet has been modified from that in

			Annex F	R of API (885, Second Edition.	inquiry No.: Abkivi-		
					,		7	REV
1	INSPECTION A	ND TE	STING			ESTING (8.3)		
2	GENERAL (8.1)				HARDNESS TEST REQUIRED (8	.2.3.2)	NON-WITNESS	
3	DAYS IN ADVANCE NOTIFICATION OF	WITNE	SSED OR OBSERVE	ED	FOR			
4	TESTS AND INSPECTIONS			10	METHOD			
5	NOTIFICATION OF SUCCESSFUL PREL	.IMINAF	RY SHOP		COMPONENTS TO BE TESTE	:D		
6	PERFORMANCE TEST (8.1.1.3)		REQUIF	RED	IMPACT TEST TO		NOT REQUIRED	
7	SUBMIT INSPECTION CHECKLIST (8.1.	3)	REQUIF	RED	HYDROSTATIC TEST (8.3.2)		NON-WITNESS	
8	·	,			WETTING AGENT INCLUDE	TD (8 3 2 7)		
9	SHOP INSPECTION (8.2)				PERFORMANCE TEST (8.3.3)	(0.0.2.1)	NON-WITNESS	
10	ADDITIONAL SUBSURFACE EXAMINAT	ION (6	10 1 5) (8 2 1 3		TEST DATA POINTS		PER 8.3.3.3	
11	PART	EXAM	10.1.0) (0.2.11.		PERFORMANCE CURVE & DATA	A ADDROVAL DRIOR	PER 0.3.3.3	
12		EXAM			TO SHIPMENT (8.3.3.3.5)	AAITROVALTRIOR	DEGUIDED	
13		EXAM			TEST W/ NPSHA LIMITED TO 11	00% SITE NIDSHA	REQUIRED	
		-			RUN UNTIL TEMP STABILIZATION		NO	
14	PART	EXAM					YES	
15			DECLUE		1 HR. MECH RUN TEST (8.3.4.2.	,	NON-WITNESS	
16	PMI TESTING REQUIRED (8.2.1.4)	_	REQUIF		THRUST BEARING LOAD TEST ((8.3.4.3)		
17	PARTS TO BE TESTED:		A8KM-PP-000-5005	512-A	NPSH3 TEST (8.3.4.4.1)		NO	
18	INSPECTION REQUIRED FOR CASTING	SS (8.2.	2.1)		COMPLETE UNIT TEST (8.3.4.5)			
19	MAG PARTICLE			NO	SOUND LEVEL TEST (8.3.4.6) FO		NON-WITNESS	
20	LIQUID PENTRANT			YES	AUXILIARY EQUIPMENT TEST (8	•		
21	RADIOGRAPHY			NO	SECONDARY CONTROL SYSTE	M HYDRO	NON-WITNESS	
22	ULTRASONIC			NO	SECONDARY CONTAINMENT / C	CONTROL SYSTEM		
23	INSPECTION REQUIRED FOR CONNEC	TION V	VELDS (6.10.3.4.5)		INSTRUMENT TEST (8.3.4.9))		
24	MAG PARTICLE			NO	STATIC TORQUE TEST (9.1.6.1)			
25	LIQUID PENTRANT			YES	RUN UNTIL OIL TEMPERATURE	STABILIZED (9.1.6.3)		
26	RADIOGRAPHY			NO	RESIDUAL UNBALANCE TEST (J.4.1.2)		
27	ULTRASONIC			NO	OTHER:			
28								
29	CLEANLINESS PRIOR TO FINAL ASSEM	/BLY (8	.2.3.1) N (ON-WIT				
30		(-						
31								
32								
33				NC)TES			
34	6.1 PMI of alloy pressure containment p	narte in	cluding nines & va			Δ8ΚΜ-PP-000-500512-Δ P	ositivo	
	Material Identification (PMI).	Janto, II	icidaling pipes & va	11403, 13 10	quired per i roject opecinication a	40Kiii-1 1 -000-000012-A 1	OSILIVE	
35	6.2 Pressure containing parts (includin	a auvili	arias aball ba tasta	d bydroot	atically with liquid at a minimum	1 E times the maximum of	lowable	
36	• • • • • • • • • • • • • • • • • • • •	y auxiii	aries silali de leste	a nyurosi	atically with liquid at a millimum	1.5 times the maximum a	IOWable	
37	working pressure.	1 / 4 !! 4 h i 4	ak ataal with at laas	-+ (4) O(46"	diameter hale provided If two (2)	المعاد معادناهما فالمدد مامالا	he 0/46" die	
38	6.3 Baseplate grounding tabs shall be 1			<u> </u>	<u>`</u>	· · · · · · · · · · · · · · · · · · ·	uc a/ 18 dia.	
39	spaced 1-3/4" on center. Where stai				-			
40	either two (2), or four (4), 1/2" - 13 h							
41	6.4 Baseplate shall be constructed with							
42	Baseplate shall be rigid constructe		commodate 2 X Alle	owable No	ezzie Loads & Moments in API 685	o, 2nd Edition.		
43	6.5 Motor requires oversized terminal b				to to a state of the state of t			
44	6.6 A Witnessed NPSH test is required	IT NPSI	rnargin over quote	ea NPSHR	is less than 3 ft. at 110% of Rated	a capacity. A minimum 3	n. margin is	
45	— preferred when possible.							
46	6.7 An ESCO single piece sight glass is	requir	ed for the oil drain.	. A magne	tic drain plug in housing is also re	equired.		
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Note: This Data Sheet has been modified from that in

Contract: A8KM Item No: 18-P-257 / 257S Revision: Date: 5-Sep-22 Unit: **SWSPlus Unit** A8KM-18-089-540101-A Doc. No.:

Inquiry No.: A8KM-4-616 Annex R of API 685, Second Edition. REV **Sheet** of 2 Max. inch 6.375 **Predicted Pump Curve:** 3 Impeller Ø Designed inch 6.12 **Sundyne HMD Kontro:** 4 Min. 5.812 inch 5 Nominal US g.p.m. 6.7 Performance curve 6 Max. US g.p.m. 7.63 7 Barske Wheel Impeller type US g.p.m. 3.6 8 Direction of rotation Anti-Clockwise from Drive End 49 Nominal ft 9 Impeller construction Semi-Open Head at Max Flowft 43.66 10 NSS (US unit) Impeller Ey e Area 2441 at Min Flowft 52.14 11 Frequency 60 Hz Hz Speed 1780 Head H(Q=0) 51.04 rpm ft 12 NPSH 3% ft 5.33 13 Shaft power hp 0.87 14 Max. shaft power sel. Impeller 0.88 15 hp Efficiency 8.47 16 % 17 18 [ft] Head 19 20 50 21 22 40 23 24 30 25 26 27 20 28 29 10 30 31 32 0.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 33 [hp] 34 Shaft Power P2 35 36 37 1 38 39 40 0 41 9.0 0.0 1.0 2.0 3.0 5.0 6.0 7.0 8.0 4.0 42 43 [%] Efficiency 44 8 45 6 46 47 48 49 0 50 3.0 4.0 51 52 [ft] NPSH Values 53 5.0 54 55 2.5 56 57 0.0 58 0.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 [gpm] 59

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Performance curve data is for reference only. For specific performance data refer to tabulated actual values and datasheet.