

  	<b>LOW VOLTAGE MOTOR (IEEE 841) DATA SHEET</b> <b>U.S. CUSTOMARY UNITS</b>		<b>Contract:</b> A8KM <b>Item No:</b> 18-P-1847AM/BM		Rev
	<b>APPLICABLE MOTOR SPECIFICATION</b> A8KM-PP-000-50670-A		<b>Revision:</b> 0 <b>Date:</b> 29-Aug-22		
	<b>Doc. No.:</b> A8KM-18-073-540117-A		<b>Unit:</b> Utilities and Offsites <b>RFQ No.:</b> 4-601B-RQ		
			<b>Sheet</b> 1 of 1		

  

1	APPLICABLE TO <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT	0
2	CLIENT: <b>World Energy Paramount</b> SERVICE: <b>Flare Knock Out Drum Pump</b>	
3	PLANT: <b>World Energy Renewables Plant</b> MOTOR TAG NO. / NO. REQ'D: <b>18-P-1847AM/BM / Two (2)</b>	
4	SITE: <b>Paramount, CA</b> DRIVEN EQUIPMENT TYPE / TAG NO.: <b>Centrifugal Pump / 18-P-1847A/B</b>	

  

<b>DESIGN DATA AND ACCESSORY EQUIPMENT</b>					
6	NAMEPLATE	7.5 HP	1.15 S.F.	3600 RPM	POWER (VOLTAGE/PHASE/HERTZ) 460 / 3 / 60
7	ROTATION (WHEN FACING MOTOR OPPOSITE DRIVE END):	<input type="radio"/> CW <input type="radio"/> CCW <b>Fans shall be bi-directional</b>			
8	INSULATION CLASS:	<input type="radio"/> B <input checked="" type="radio"/> F <input type="radio"/> H <input type="radio"/> VPI	TEMP. RISE	CLASS B / 79 °C over 40.6 °C AMBIENT	
9	AREA CLASSIFICATION:	<input checked="" type="radio"/> CLASS I , GROUP	AB/C/D	DIV. 2	<input checked="" type="radio"/> T-RATING T3C / °F
10		<input type="radio"/> UNCLASSIFIED			
11	LOCATION:	<input type="radio"/> INDOOR <input checked="" type="radio"/> OUTDOOR <input type="radio"/> SHELTERED    UNUSUAL CONDITIONS: <input type="radio"/> DUST <input type="radio"/> OTHER			
12		AMBIENT TEMPERATURE: MAX 105 °F / MIN. 35 °F    ALTITUDE 3300 ft			
13	ENCLOSURE:	<input checked="" type="radio"/> TOTALLY-ENCLOSED FAN-COOLED <input type="radio"/> TOTALLY-ENCLOSED NONVENTILATED <input type="radio"/> EXPLOSION PROOF			
14	MOUNTING METHOD:	<input checked="" type="radio"/> FOOT <input type="radio"/> FLANGE, TYPE:			
15	MOUNTING ARRANGEMENT:	<input checked="" type="radio"/> HORIZONTAL <input type="radio"/> VERTICAL SHAFT DOWN <input type="radio"/> VERTICAL SHAFT UP			
16	BEARING TYPE:	<input checked="" type="radio"/> BALL <input type="radio"/> ROLLER	BEARING LUBRICATION:	<input checked="" type="radio"/> GREASE <input type="radio"/> OIL <input type="radio"/> PURE OIL MI 0	
17	CONNECTION TO LOAD:	<input checked="" type="radio"/> DIRECT CONNECTED <input type="radio"/> V-BELT <input type="radio"/> THROUGH GEAR <input type="radio"/> CLOSE COUPLED			
18	EQUIPMENT OPERATION:	<input type="radio"/> CONTINUOUS <input type="radio"/> SPARED CONTINUOUS <input checked="" type="radio"/> INTERMITTENT-CYCLES / DAY			
19	SOUND PRESSURE LEVEL REQUIREMENTS:	85 dBA @ 3 FEET			
20	STARTING:	<input checked="" type="radio"/> FULL VOLTAGE <input checked="" type="radio"/> REDUCED VOLTAGE, 80 % OF VOLTAGE <b>Starting Voltage Dip Allowance</b>			
21		<input type="radio"/> UNLOADED <input checked="" type="radio"/> LOADED <input type="radio"/> CAPACITORS FOR POWER FACTOR CORRECTION			
22	<input checked="" type="radio"/> SPACE HEATERS	V    PHASE    °F MAX. TEMP			
23	<input checked="" type="radio"/> OVERSIZE TERMINAL BOX	<input checked="" type="radio"/> DRAIN PLUGS			
24	<input checked="" type="radio"/> SS NAMEPLATE	<input type="radio"/> AUXILIARY NAMEPLATE			
25	TEST	<input checked="" type="radio"/> ROUTINE <input type="radio"/> COMPLETE <input checked="" type="radio"/> VIBRATION <input checked="" type="radio"/> REPORT <input checked="" type="radio"/> FOOT FLATNESS			
26	REMARKS: 10.1) This data sheet applies to motors 1/2 hp through 500 hp with anti-friction bearings.				
27	10.2) Space heaters are required for 100 hp and above. Space heaters shall be rated at 240V/1 ph./60Hz for operation at 120V.				
28	10.3) IP55 degree of protection is required.				

  

<b>INFORMATION BELOW TO BE COMPLETED BY VENDOR</b>					
31	MOTOR MFR.	NIDEC / US MOTORS	MODEL	21704264	SERIAL NO.
32	NAMEPLATE HP	7.5	FULL LOAD RPM	3523	FRAME 213T    WEIGHT 150 LB
33	MOTOR OUTLINE DRAWING NO.	EN207123-BG-9V3-00061			
34	ROTOR CAGE MATERIAL OF CONSTRUCTION	ALUMINUM		MOTOR WINDING MATERIAL	COOPER
35	BEARING MANUFACTURER	PEER OR SKF		SIZE	6208 / 6208
36	VERTICAL MOTOR THRUST BEARING:	TYPE	CAPACITY: UP	LBS DOWN	LBS LOCATION
37					
38	LOAD	FULL	3/4	1/2	OTHER
39	AMPERES	9	6.9	5	
40	EFFICIENCY, %	90.2	90.9	90.2	
41	POWER FACTOR	86	83.5	76.4	
42	SPEED, RPM	3524	3548	3568	
43					
44	SOUND LEVEL: GUARANTEED	85 dBA /	EXPECTED	65 dBA	
45	FAN MATERIAL	POLYPROPYLENE (NON-SPARKING)			
46					
47					
48	LOCKED ROTOR AMPS* 62.7 AMPS FULL LOAD TORQUE* 11.2 FT-LB LOCKED ROTOR TORQUE* 201 % PULL UP TORQUE* 185 % BREAKDOWN TORQUE* 284 % ACCEL. TIME W/ LOAD (0 TO FULL SPEED)* 1 SEC. STALL TIMES AT ZERO RPM* - HOT / COLD 24 / 35 SEC. NUMBER OF CONSECUTIVE STARTS* 2 COLD / 1 HOT				
49	* INDICATED AT RATED VOLTAGE				

  

<b>INFORMATION BELOW TO BE PROVIDED BY VENDOR AFTER PURCHASE (REFER TO RFQ/PO DOCUMENTS)</b>					
48	<input checked="" type="radio"/> SAFE TIME - CURRENT CURVE      MAX. SURFACE TEMP. DURING NORMAL STARING OR OPERATION OF:				
49	<input checked="" type="radio"/> SPEED - TORQUE CURVE <input checked="" type="radio"/> ROTOR 196.5 °F <input checked="" type="radio"/> STATOR 130.6 °F <input checked="" type="radio"/> ENCLOSURE 86.4 °F				
50	<input checked="" type="radio"/> SAFE LOCKED ROTOR TIME    HOT 24    COLD 35				
51	NOTES:				
52	10.4 Average relative humidity is 54%.				
53	10.5 Motor nameplate shall indicate service factor, area classification and T-rating. T-rating relates to both external and internal components.				
54	10.6 Provide accessory loads on submittal documents, e.g. Volts, HP, kVA, etc.				
55	10.7 Motor shall be rated for Cl. I, Div. 2, Gr. B,C,D and a T3C temperature code for Project uniformity.				
56					
57					