



MOTOR DATA SHEET (INCL. CURVES)

CLIENT	:	Air Products Manufacturing LLC
PROJECT NAME/NO.	:	WEP Renewables
CLIENT PO NO	:	4505605360
HMD DOCUMENT NO	:	HMD-4505605360-C11-02
CLIENT DOCUMENT NO	:	
HMD PUMP NO	:	839917 A/B
EQUIPMENT TAG NO	:	18-P-252 A/B

REV	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY
2	14/12/2022	ISSUE FOR REVIEW	KW	AFS	AFS
1	13/09/2022	ISSUE FOR REVIEW	ABB	AFS	AFS
0	10/05/2022	ISSUE FOR REVIEW	AN	AFS	NW

NOTE:



RESOLUTION SHEET

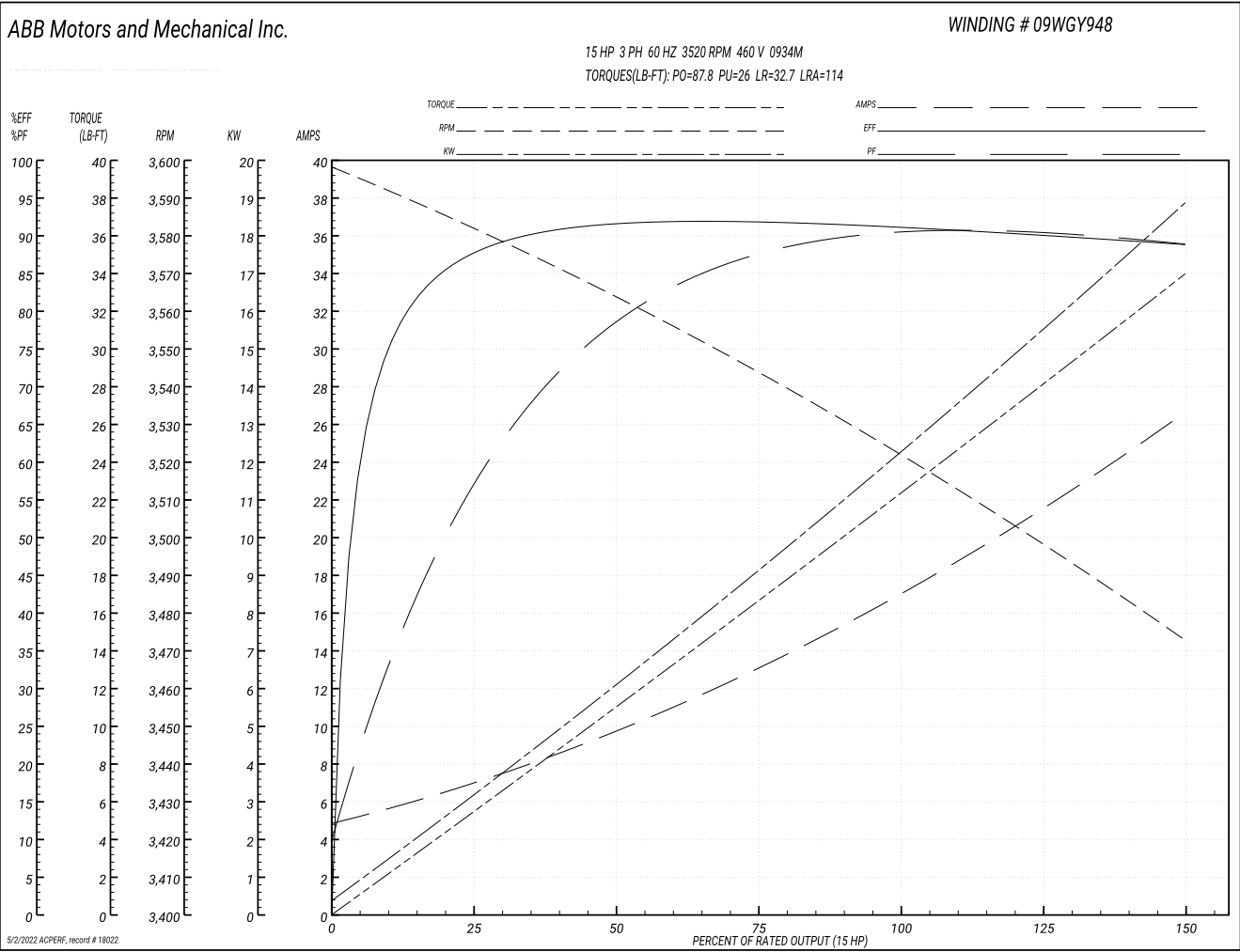
Comment Number	Document Name: Motor Data Sheet		Revision from which comment first appeared	Comment Status: Open\Closed - (Date Closed:)
	CLIENT COMMENT	HMD RESPONSE	Current Rev:	
1	Inverter Duty Not applicable	Noted	1	14/12/2022
2	Space heater not applicable for this motor	Noted and Amended	1	14/12/2022
3	Typical not acceptable. Vendor shall provide curves for the given motor rating, voltage, frequency	Noted and Amended. Curves attached are correct for the given motor rating, voltage, frequency to be used on pump 18-P-252 A/B	1	14/12/2022

 	LOW VOLTAGE MOTOR (IEEE 841)	Contract: A8KM					
	DATA SHEET	Item No: 18-P-252A/B (839917)					
	U.S. CUSTOMARY UNITS	Revision: 1	Date: 13-Sep-22				
	APPLICABLE MOTOR SPECIFICATION A8KM-PP-000-50670-A	Unit: SWSPPlus Unit					
Doc. No.: HMD-4505605360-C11-02	RFQ / P.O. No.: 4505605360	Sheet	1	of	1		
Rev							
1	APPLICABLE TO <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT						
2	CLIENT: World Energy Paramount	SERVICE: Ammonia Stripper Reflux					
3	PLANT: World Energy Paramount	MOTOR TAG NO. / NO. REQ'D: 18-P-252AM/BM / Two (2)					
4	SITE: Paramount, CA	DRIVEN EQUIPMENT TYPE / TAG NO.: Centrifugal Pump / 18-P-252A/B					
5	DESIGN DATA AND ACCESSORY EQUIPMENT						
6	NAMEPLATE 15 HP 1.15 S.F. 3450 RPM	POWER (VOLTAGE/PHASE/HERTZ) 460 / 3 / 60					
7	ROTATION (WHEN FACING MOTOR OPPOSITE DRIVE END): CW	CCW Fans shall be bi-directional					
8	INSULATION CLASS: <input type="radio"/> B <input checked="" type="radio"/> F <input type="radio"/> H <input type="radio"/> VPI	TEMP. RISE CLASS B / °C over 40.6 °C AMBIENT					
9	AREA CLASSIFICATION: CLASS I , GROUP B/C/D	DIV. 2 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 69 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 MIST					
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 checked="" type="radio"/> CONTINUOUS <input type="radio"/> SPARED CONTINUOUS <input 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 Starting Voltage Dip Allowance						
21	<input type="radio"/> UNLOADED <input checked="" type="radio"/> LOADED <input type="radio"/> CAPACITORS FOR POWER FACTOR CORRECTION						
22	<input type="radio"/> SPACE HEATERS 120 V 1 PHASE _____ °F MAX. TEMP						
23	<input checked="" type="radio"/> OVERSIZE TERMINAL BOX <input checked="" type="radio"/> DRAIN PLUGS Terminal Box shall be the largest feasible for the motor frame.						
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: 8.1) This data sheet applies to motors 1/2 hp through 500 hp with anti-friction bearings.						
27	8.2) Space heaters are required for 100 hp and above.						
28	8.3) IP55 degree of protection is required.						
29	8.4) Average relative humidity is 54%.						
30	INFORMATION BELOW TO BE COMPLETED BY VENDOR						
31	MOTOR MFR. ABB Baldor	MODEL 09-0000-3828	SERIAL NO. _____	1			
32	NAMEPLATE HP 15	FULL LOAD RPM 3522	FRAME 256T WEIGHT 299 LB	1			
33	MOTOR OUTLINE DRAWING NO. 09LY-001-651			1			
34	ROTOR CAGE MATERIAL OF CONSTRUCTION Al	MOTOR WINDING MATERIAL Cu					
35	BEARING MANUFACTURER SKF	SIZE 6309					
36	VERTICAL MOTOR THRUST BEARING: TYPE N/A	CAPACITY: UP N/A LBS DOWN N/A LBS	LOCATION N/A	1			
37							
38	LOAD	FULL	3/4	1/2	OTHER	LOCKED ROTOR AMPS* 114 AMPS	1
39	AMPERES	17.3	13.1	9.71	N/A	FULL LOAD TORQUE* 22.4 FT-LB	1
40	EFFICIENCY, %	91.2	91.8	91.1	N/A	LOCKED ROTOR TORQUE* 32.7 FT-LB	1
41	POWER FACTOR	89	88	80	N/A	PULL UP TORQUE* 26 FT-LB	1
42	SPEED, RPM	3522	3544	2563	N/A	BREAKDOWN TORQUE* 87.8 FT-LB	1
43						ACCEL. TIME W/ LOAD (0 TO FULL SPEED)* 1.1 SEC.	1
44	SOUND LEVEL: GUARANTEED <90 dBA / EXPECTED 80 dBA					STALL TIMES AT ZERO RPM* - HOT / COLD 18 / 37 SEC.	1
45	FAN MATERIAL Polypropylene MP5000 (NON-SPARKING)					NUMBER OF CONSECUTIVE STARTS* 1 Hot / 2 Cold	1
46	* INDICATED AT RATED VOLTAGE						
47	INFORMATION BELOW TO BE PROVIDED BY VENDOR AFTER PURCHASE (REFER TO RFQ/PO DOCUMENTS)						
48	<input checked="" type="radio"/> SAFE TIME - CURRENT CURVE MAX. SURFACE TEMP. DURING NORMAL STARTING OR OPERATION OF:						
49	<input checked="" type="radio"/> SPEED - TORQUE CURVE <input type="radio"/> ROTOR _____ °F <input type="radio"/> STATOR _____ °F <input type="radio"/> ENCLOSURE _____ °F						
50	<input checked="" type="radio"/> SAFE LOCKED ROTOR TIME HOT _____ COLD _____						
51	NOTES:						
52	8.5 Motor nameplate shall indicate service factor, area classification and T-rating. T-rating relates to both external and internal components.						
53	8.6 Provide accessory loads on submittal documents, e.g. Volts, HP, kVA, etc.						
54	8.7 All motors shall be rated for Cl. I, Div. 2, Gr. B,C,D and a T3C temperature code for project uniformity.						
55	8.8 An oversized electrical terminations box is required.						
56	8.9 Grounding provisions are required for inside and outside the motor connection box.						
57							

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Performance Graph at 460V, 60Hz, 15.0HP



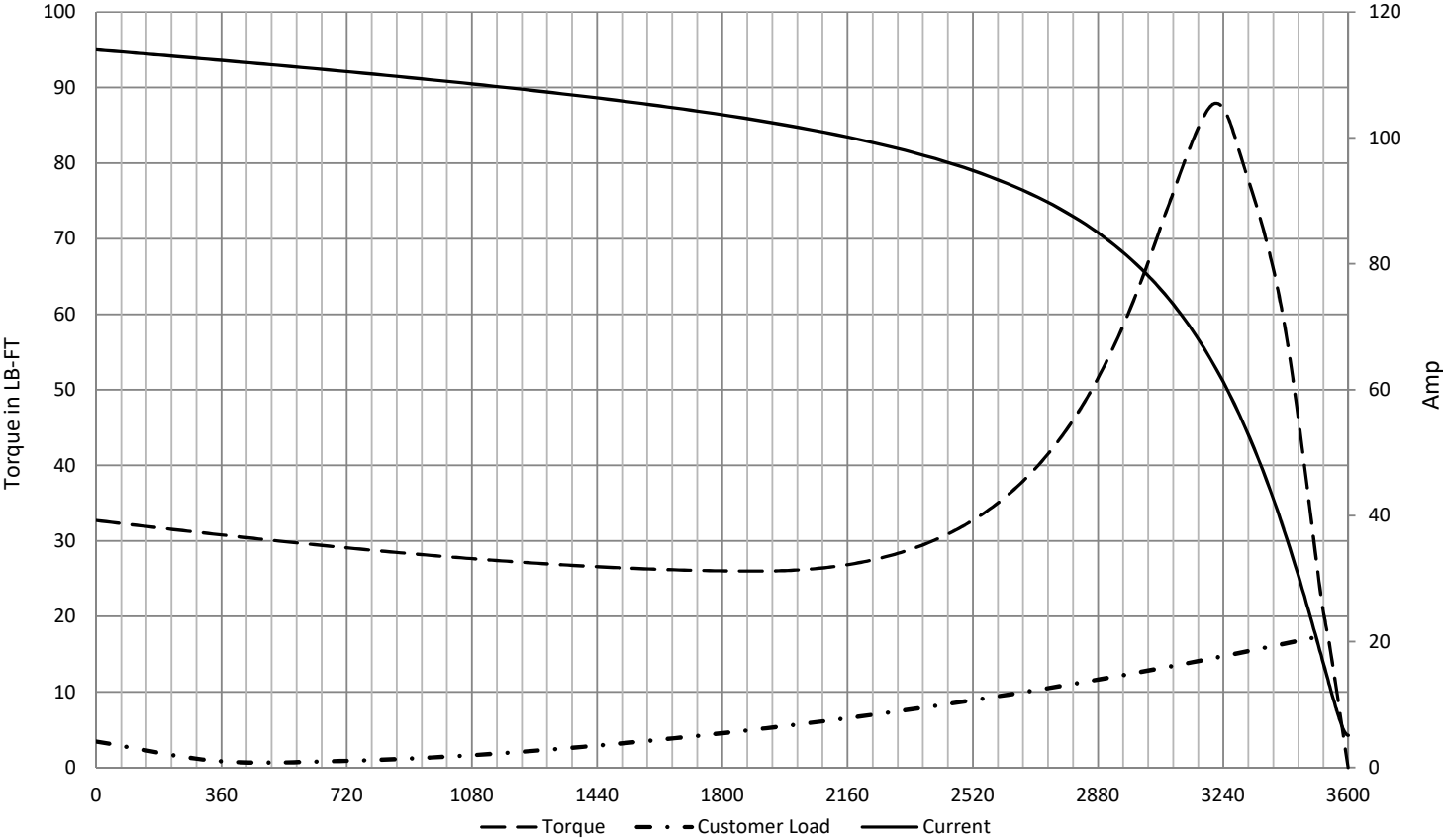


SPEED TORQUE / SPEED CURRENT CURVE



09WGY948

15HP 460V 60Hz

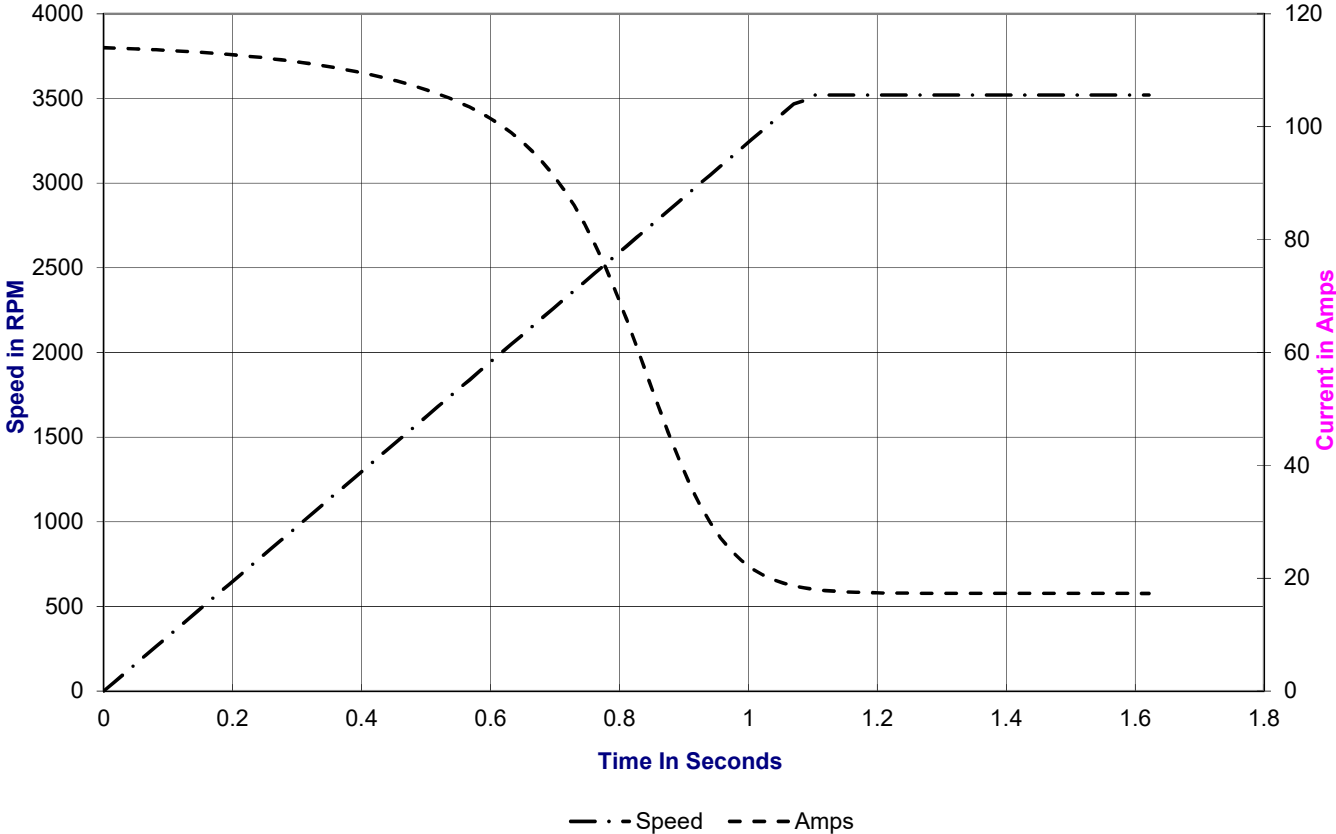


Speed Time / Current Time Curve



09WGY948 : Variable Torque : 4.25 lb-ft² Load Inertia

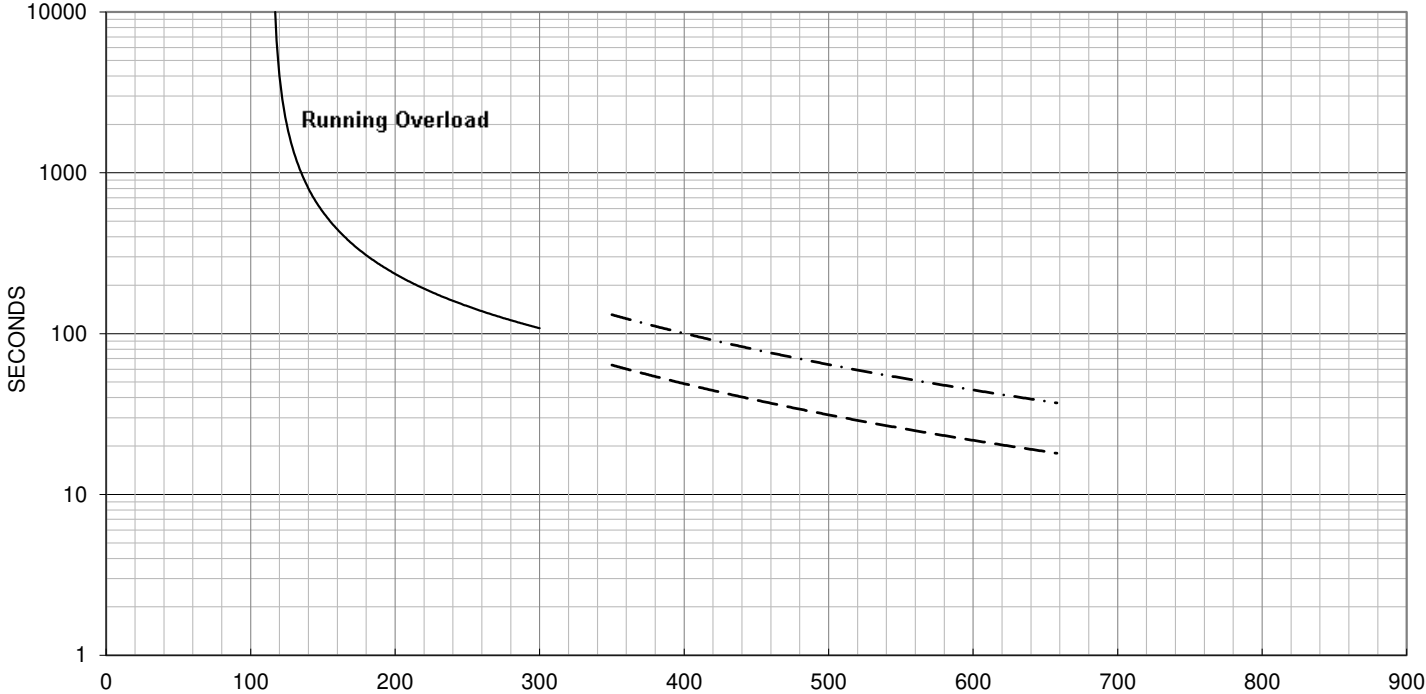
15HP 460V 60HZ



THERMAL LIMIT CURVE

09WGY948

15HP 460V 60HZ



Record: 18022

— Running Overload - . - Cold Stall - - Hot Stall

Safe Stall Time
Cold: 37 Sec
Hot: 18 Sec