HMD KONTRO Sealless Pumps

MOTOR DATA SHEET (INCL. CURVES)

CLIENT	:	Air Products Manufacturing LLC
PROJECT NAME/NO.	:	WEP Renewables
CLIENT PO NO	:	4505605360
HMD DOCUMENT NO	:	HMD-4505605360-C11-01
CLIENT DOCUMENT NO	:	
HMD PUMP NO	:	839916 A/B
EQUIPMENT TAG NO	:	18-P-250 A/B

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

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	Not acceptable, all values shall be confirmed by vendor	Noted and confirmed	1	12/12/2022

API: CLOSE

FLUOR / world energy	**LOW VOLTAGE MOTOR (IEEE 841) DATA SHEET U.S. CUSTOMARY UNITS**	**Contract:**	**A8KM**
		Item No:	**18-P-250A/B (839916)**
		Revision:	**1** **Date:** **13-Sep-22**
	APPLICABLE MOTOR SPECIFICATION A8KM-PP-000-50670-A	**Unit:**	**SWSPlus Unit**
		RFQ / P.O. No.:	**4505605360**
	Doc. No.: HMD-4505605360-C11-01	**Sheet**	1 **of** 1

Rev

APPLICABLE TO ○ PROPOSAL ● PURCHASE AS BUILT

CLIENT: **World Energy Paramount** SERVICE **Acid Gas Stripper Bottoms Pumps**

PLANT: **World Energy Paramount** MOTOR TAG NO. / NO. REQ'D **18-P-250AM/BM** / **Two (2)**

SITE: **Paramount, CA** DRIVEN EQUIPMENT TYPE / TAG NO. **Centrifugal Pump** / **18-P-250A/B**

DESIGN DATA AND ACCESSORY EQUIPMENT

NAMEPLATE **15** HP **1.15** S.F. **3450** RPM POWER (VOLTAGE/PHASE/HERTZ) **460** / **3** / **60**

ROTATION (WHEN FACING MOTOR OPPOSITE DRIVE END): CW CCW **Fans shall be bi-directional**

INSULATION CLASS: ○ B ● F ○ H ○ VPI TEMP. RISE **CLASS B** / ____ °C over **40.6** **°C** **AMBIENT**

AREA CLASSIFICATION: CLASS **I** , GROUP **B/C/D** DIV. **2** T-RATING **T3C** / ____ °F

○ UNCLASSIFIED

LOCATION: ○ INDOOR ● OUTDOOR ○ SHELTERED UNUSUAL CONDITIONS: ○ DUST ○ OTHER

AMBIENT TEMPERATURE: MAX **105** °F / MIN. **35** °F ALTITUDE **69** ft

ENCLOSURE: ● TOTALLY-ENCLOSED FAN-COOLED ○ TOTALLY-ENCLOSED NONVENTILATED ○ EXPLOSION PROOF

MOUNTING METHOD: ● FOOT ○ FLANGE, TYPE:

MOUNTING ARRANGEMENT: ● HORIZONTAL ○ VERTICAL SHAFT DOWN ○ VERTICAL SHAFT UP

BEARING TYPE: ● BALL ○ ROLLER BEARING LUBRICATION: ● GREASE ○ OIL ○ PURE OIL MIST

CONNECTION TO LOAD: ● DIRECT CONNECTED ○ V-BELT ○ THROUGH GEAR ○ CLOSE COUPLED

EQUIPMENT OPERATION: ● CONTINUOUS ○ SPARED CONTINUOUS ○ INTERMITTENT-CYCLES / DAY

SOUND PRESSURE LEVEL REQUIREMENTS: **85** dBA @ **3** FEET

STARTING: ● FULL VOLTAGE ● REDUCED VOLTAGE, **80** % OF VOLTAGE **Starting Voltage Dip Allowance**

○ UNLOADED ● LOADED ○ CAPACITORS FOR POWER FACTOR CORRECTION

○ SPACE HEATERS **120** V **1** PHASE ____ °F MAX. TEMP 2

● OVERSIZE TERMINAL BOX ● DRAIN PLUGS **Terminal Box shall be the largest feasible for the motor frame.**

● SS NAMEPLATE ○ AUXILIARY NAMEPLATE

TEST ● ROUTINE ○ COMPLETE ● VIBRATION ● REPORT ● FOOT FLATNESS

REMARKS: **8.1) This data sheet applies to motors 1/2 hp through 500 hp with anti-friction bearings.**

8.2) Space heaters are required for 100 hp and above.

8.3) IP55 degree of protection is required.

8.4) Average relative humidity is 54%.

INFORMATION BELOW TO BE COMPLETED BY VENDOR

MOTOR MFR. **ABB Baldor** MODEL **09-0000-3828** SERIAL NO. 1

NAMEPLATE HP **15** FULL LOAD RPM **3522** FRAME **256T** WEIGHT **299** LB 1

MOTOR OUTLINE DRAWING NO. **09LY-001-651** 1

ROTOR CAGE MATERIAL OF CONSTRUCTION **Al** MOTOR WINDING MATERIAL **Cu** 1

BEARING MANUFACTURER **SKF** SIZE 6309 1

VERTICAL MOTOR THRUST BEARING: TYPE **N/A** CAPACITY: UP **N/A** LBS DOWN **N/A** LBS LOCATION **N/A** 1

LOAD	FULL	3/4	1/2	OTHER
AMPERES	**17.3**	**13.1**	**9.71**	**N/A**
EFFICIENCY, %	**91.2**	**91.8**	**91.1**	**N/A**
POWER FACTOR	**89**	**88**	**80**	**N/A**
SPEED, RPM	**3522**	**3544**	**2563**	**N/A**

LOCKED ROTOR AMPS*	**114**	AMPS
FULL LOAD TORQUE*	**22.4**	FT-LB
LOCKED ROTOR TORQUE*	**32.7**	FT-LB
PULL UP TORQUE*	**26**	FT-LB
BREAKDOWN TORQUE*	**87.8**	FT-LB
ACCEL. TIME W/ LOAD (0 TO FULL SPEED)*	**1.1**	SEC.
STALL TIMES AT ZERO RPM* - HOT / COLD	**18** / **37**	SEC.
NUMBER OF CONSECUTIVE STARTS*	**1 Hot / 2 Cold**	

SOUND LEVEL: GUARANTEED **<90** dBA / EXPECTED **80** dBA

FAN MATERIAL **Polypropylene MP5000** (NON-SPARKING)

* INDICATED AT RATED VOLTAGE

INFORMATION BELOW TO BE PROVIDED BY VENDOR AFTER PURCHASE (REFER TO RFQ/PO DOCUMENTS)

● SAFE TIME - CURRENT CURVE

● SPEED - TORQUE CURVE

● SAFE LOCKED ROTOR TIME HOT ____ COLD ____

MAX. SURFACE TEMP. DURING NORMAL STARING OR OPERATION OF:

○ ROTOR ____ °F ○ STATOR ____ °F ○ ENCLOSURE ____ °F

NOTES:

8.5 **Motor nameplate shall indicate service factor, area classification and T-rating. T-rating relates to both external and internal components.**

8.6 **Provide accessory loads on submittal documents, e.g. Volts, HP, kVA, etc.**

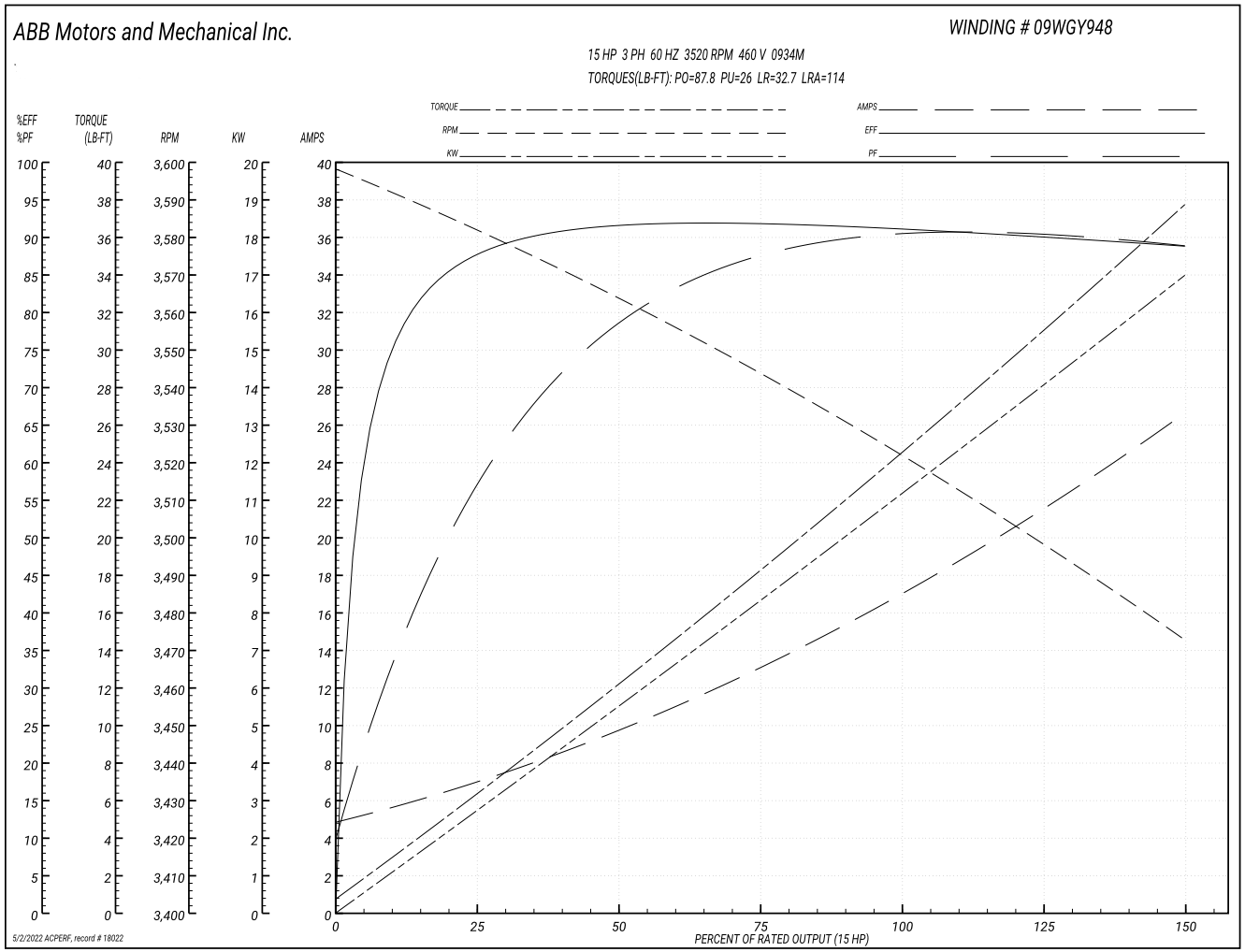
8.7 **All motors shall be rated for Cl. I, Div. 2, Gr. B,C,D and a T3C temperature code for project uniformity.**

8.8 **An oversized electrical terminations box is required.**

8.9 **Grounding provisions are required for inside and outside the motor connection box.**

BALDOR • RELIANCE

Performance Graph at 460V, 60Hz, 15.0HP



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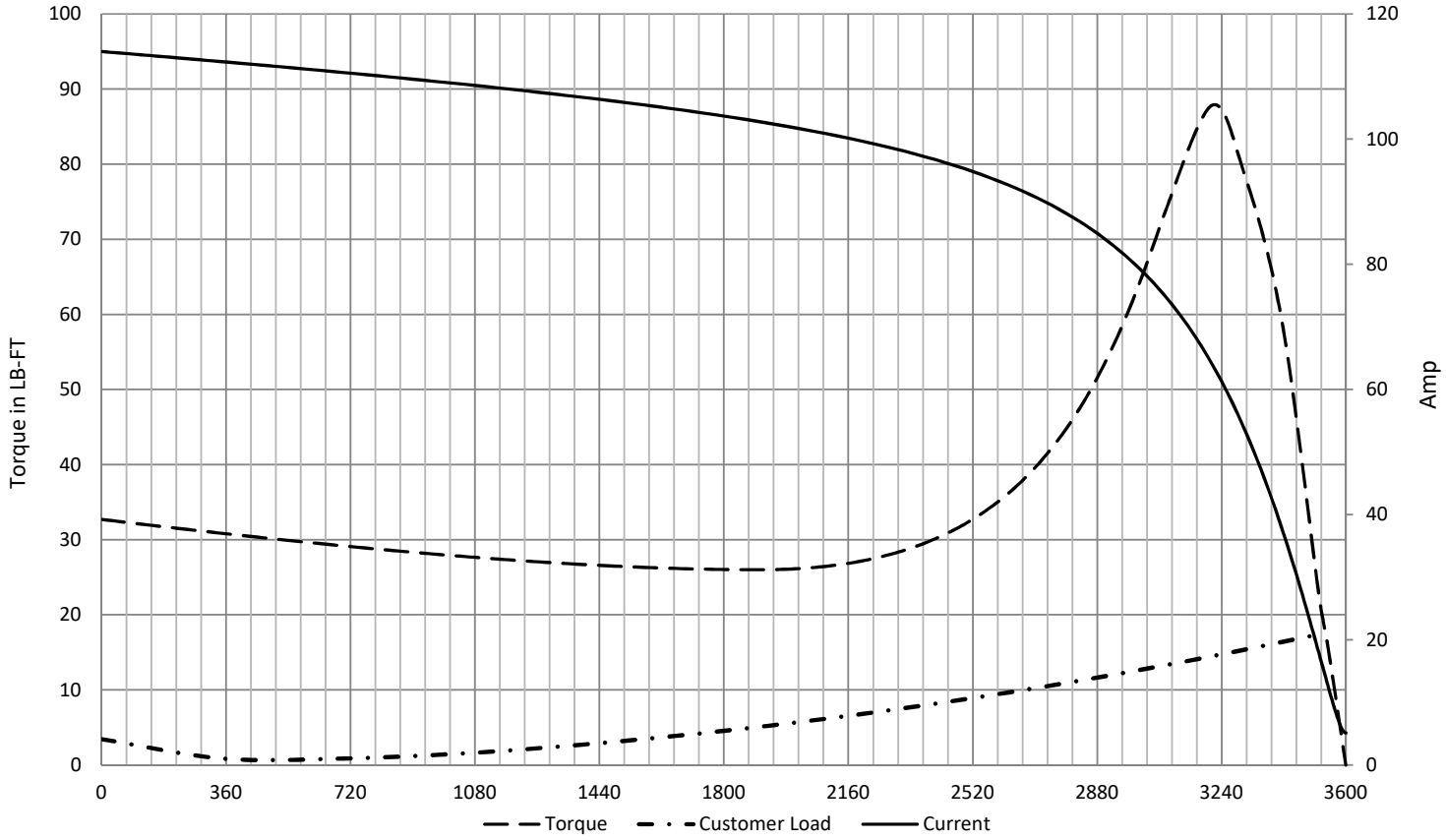
SPEED TORQUE / SPEED CURRENT CURVE

BALDOR • RELIANCE

09WGY948

15HP 460V 60Hz



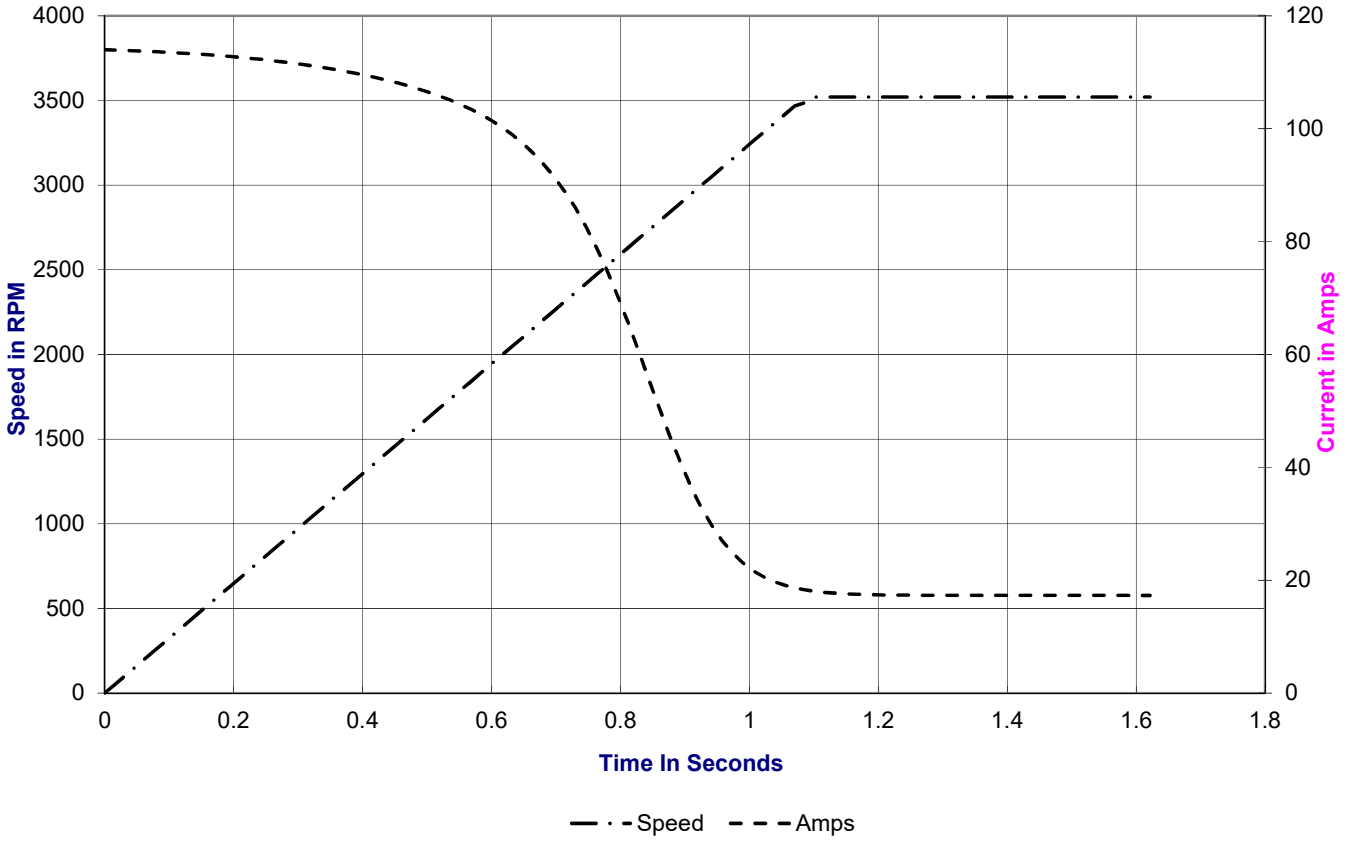
BALDOR • RELIANCE

Speed Time / Current Time Curve

BALDOR • RELIANCE

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

15HP 460V 60HZ

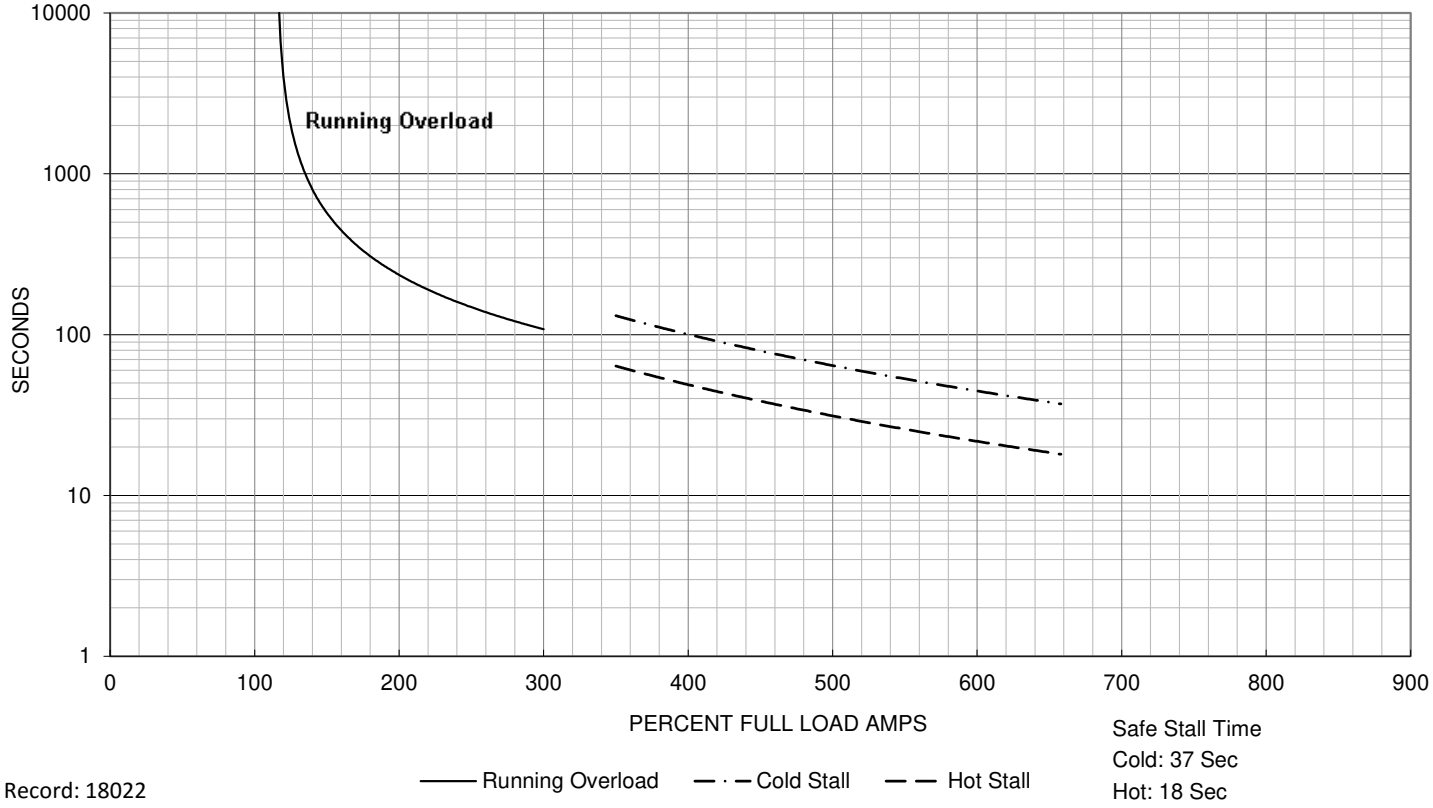


BALDOR • RELIANCE

THERMAL LIMIT CURVE

09WGY948

15HP 460V 60HZ



Record: 18022

Safe Stall Time
Cold: 37 Sec
Hot: 18 Sec