





## MOTOR DATA SHEET (INCL. CURVES)

CLIENT	:	Air Products Manufacturing LLC
PROJECT NAME/NO.	:	WEP Renewables
CLIENT PO NO	:	4505605360
HMD DOCUMENT NO	:	HMD-4505605360-C11-05
CLIENT DOCUMENT NO	:	
HMD PUMP NO	:	839920 A/B
EQUIPMENT TAG NO	:	18-P-255 A/B

3	14/03/2023	ISSUE FOR REVIEW	GC	AFS	AFS
2	13/12/2022	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
REV	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY

**NOTE:**

<div></div> <div>RESOLUTION SHEET</div>				
Comment Number	Document Name: Motor Data Sheet		Revision from which comment first appeared	Comment Status: Open\Closed - (Date Closed:)
			Current Rev:	
1	Provide motor cold and hot withstand curves	Noted & Added	2	Closed - (14/03/2023)
2	Provide infromation for Lines 48-50	Noted & Added	2	Closed - (14/03/2023)



LOW VOLTAGE MOTOR (IEEE 841)

DATA SHEET

U.S. CUSTOMARY UNITS

APPLICABLE MOTOR SPECIFICATION

A8KM-PP-000-50670-A

Doc. No.: HMD-4505605360-C11-05

Contract:

Item No:

Revision:

Unit:

RFQ / P.O. No.:

Sheet

A8KM

18-P-255A/B (839920)

1

Date: 13-Sep-22

SWSPPlus Unit

4505605360

1 of 1

Rev

1

APPLICABLE TO

☐ PROPOSAL

☒ PURCHASE

AS BUILT

2

CLIENT:

World Energy Paramount

SERVICE

Aqua-Ammonia Pumps

3

PLANT:

World Energy Paramount

MOTOR TAG NO. / NO. REQ'D

18-P-255AM/BM

/

Two (2)

4

SITE:

Paramount, CA

DRIVEN EQUIPMENT TYPE / TAG NO.

Centrifugal Pump

/

18-P-255A/B

5

DESIGN DATA AND ACCESSORY EQUIPMENT

6

NAMEPLATE

7.5

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:

☐ B

☒ F

☐ H

☐ 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

☐ UNCLASSIFIED

11

LOCATION:

☐ INDOOR

☒ OUTDOOR

☐ SHELTERED

UNUSUAL CONDITIONS:

☐ DUST

☐ OTHER

12

AMBIENT TEMPERATURE:

MAX

105

°F

/ MIN.

35

°F

ALTITUDE

69

ft

13

ENCLOSURE:

☒ TOTALLY-ENCLOSED FAN-COOLED

☐ TOTALLY-ENCLOSED NONVENTILATED

☐ EXPLOSION PROOF

14

MOUNTING METHOD:

☒ FOOT

☐ FLANGE, TYPE:

15

MOUNTING ARRANGEMENT:

☒ HORIZONTAL

☐ VERTICAL SHAFT DOWN

☐ VERTICAL SHAFT UP

16

BEARING TYPE:

☒ BALL

☐ ROLLER

BEARING LUBRICATION:

☒ GREASE

☐ OIL

☐ PURE OIL MIST

17

CONNECTION TO LOAD:

☒ DIRECT CONNECTED

☐ V-BELT

☐ THROUGH GEAR

☐ CLOSE COUPLED

18

EQUIPMENT OPERATION:

☒ CONTINUOUS

☐ SPARED CONTINUOUS

☐ INTERMITTENT-CYCLES / DAY

19

SOUND PRESSURE LEVEL REQUIREMENTS:

85

dBa @

3

FEET

20

STARTING:

☒ FULL VOLTAGE

☒ REDUCED VOLTAGE,

80

% OF VOLTAGE

Starting Voltage Dip Allowance

21

☐ UNLOADED

☒ LOADED

☐ CAPACITORS FOR POWER FACTOR CORRECTION

22

☐ SPACE HEATERS

120

V

1

PHASE

°F MAX. TEMP

23

☒ OVERSIZE TERMINAL BOX

☒ DRAIN PLUGS

Terminal Box shall be the largest feasible for the motor frame.

24

☒ SS NAMEPLATE

☐ AUXILIARY NAMEPLATE

25

TEST

☒ ROUTINE

☐ COMPLETE

☒ VIBRATION

☒ REPORT

☒ 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

07K629Y929G29

SERIAL NO.

32

NAMEPLATE HP

7.5

FULL LOAD RPM

3511

FRAME

215T

WEIGHT

171

LB

33

MOTOR OUTLINE DRAWING NO.

07LYK629

34

ROTOR CAGE MATERIAL OF CONSTRUCTION

Al

MOTOR WINDING MATERIAL

Cu

35

BEARING MANUFACTURER

SKF

SIZE

6307

36

VERTICAL MOTOR THRUST BEARING:

TYPE

N/A

CAPACITY:

UP

N/A

LBS

DOWN

N/A

LBS

LOCATION

N/A

38

LOAD

FULL

3/4

1/2

OTHER

LOCKED ROTOR AMPS\*

61.4

AMPS

39

AMPERES

8.52

6.63

4.86

N/A

FULL LOAD TORQUE\*

11.1

FT-LB

40

EFFICIENCY, %

91.8

92.2

91.2

N/A

LOCKED ROTOR TORQUE\*

21.3

FT-LB

41

POWER FACTOR

89

85

78

N/A

PULL UP TORQUE\*

15

FT-LB

42

SPEED, RPM

3511

3536

3558

N/A

BREAKDOWN TORQUE\*

45.1

FT-LB

43

ACCEL. TIME W/ LOAD (0 TO FULL SPEED)\*

SEC.

44

SOUND LEVEL: GUARANTEED

<90

dBa /

EXPECTED

80

dBa

STALL TIMES AT ZERO RPM\* - HOT / COLD

41

/

54

SEC.

45

FAN MATERIAL

Polypropylene MP5000

(NON-SPARKING)

NUMBER OF CONSECUTIVE STARTS\*

1 Hot / 2 Cold

46

\* INDICATED AT RATED VOLTAGE

47

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

48

☒ SAFE TIME - CURRENT CURVE

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

49

☒ SPEED - TORQUE CURVE

☐ ROTOR

n/a

°F

☐ STATOR

n/a

°F

☐ ENCLOSURE

n/a

°F

50

☒ SAFE LOCKED ROTOR TIME

HOT

41

COLD

54

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.

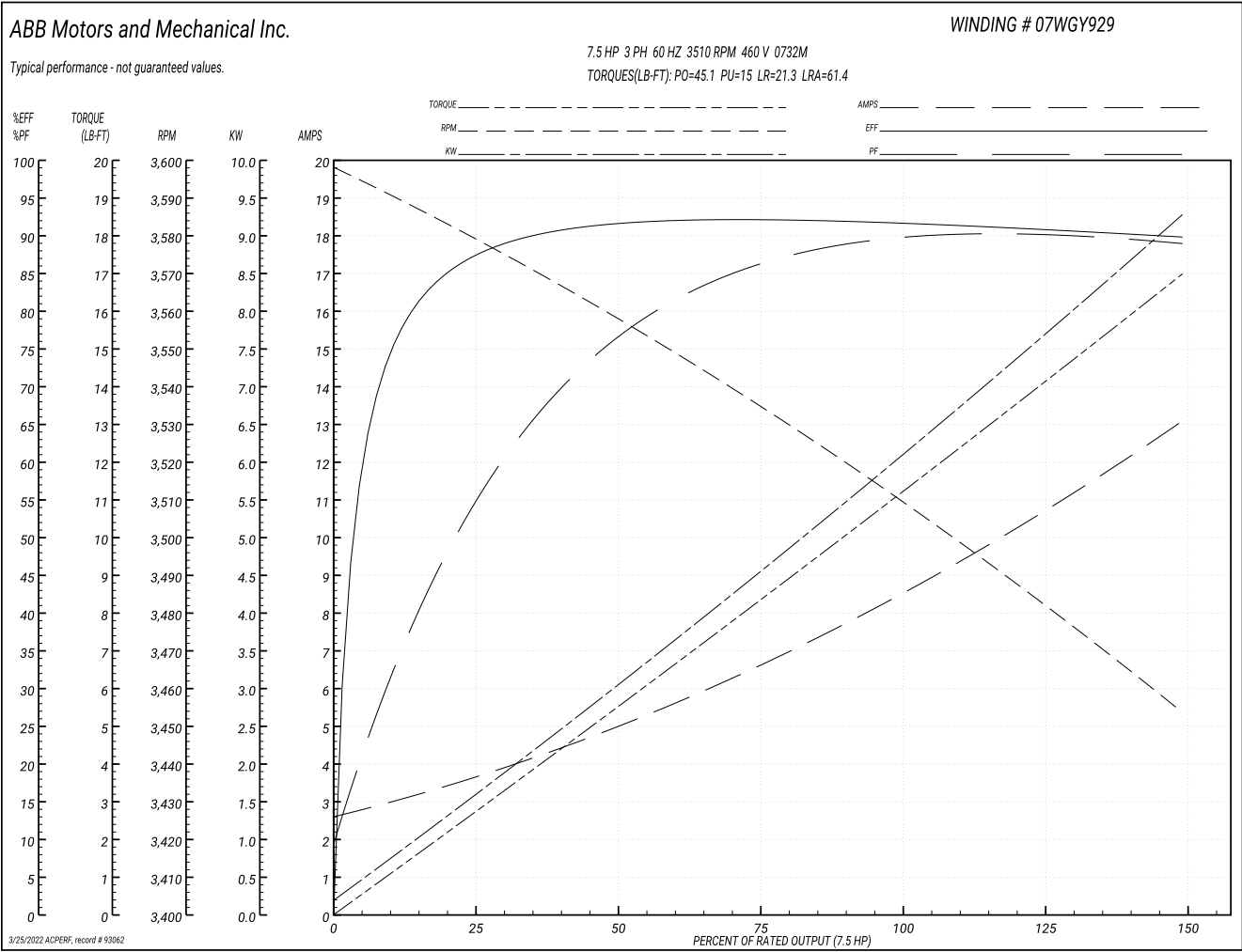
56

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

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Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values

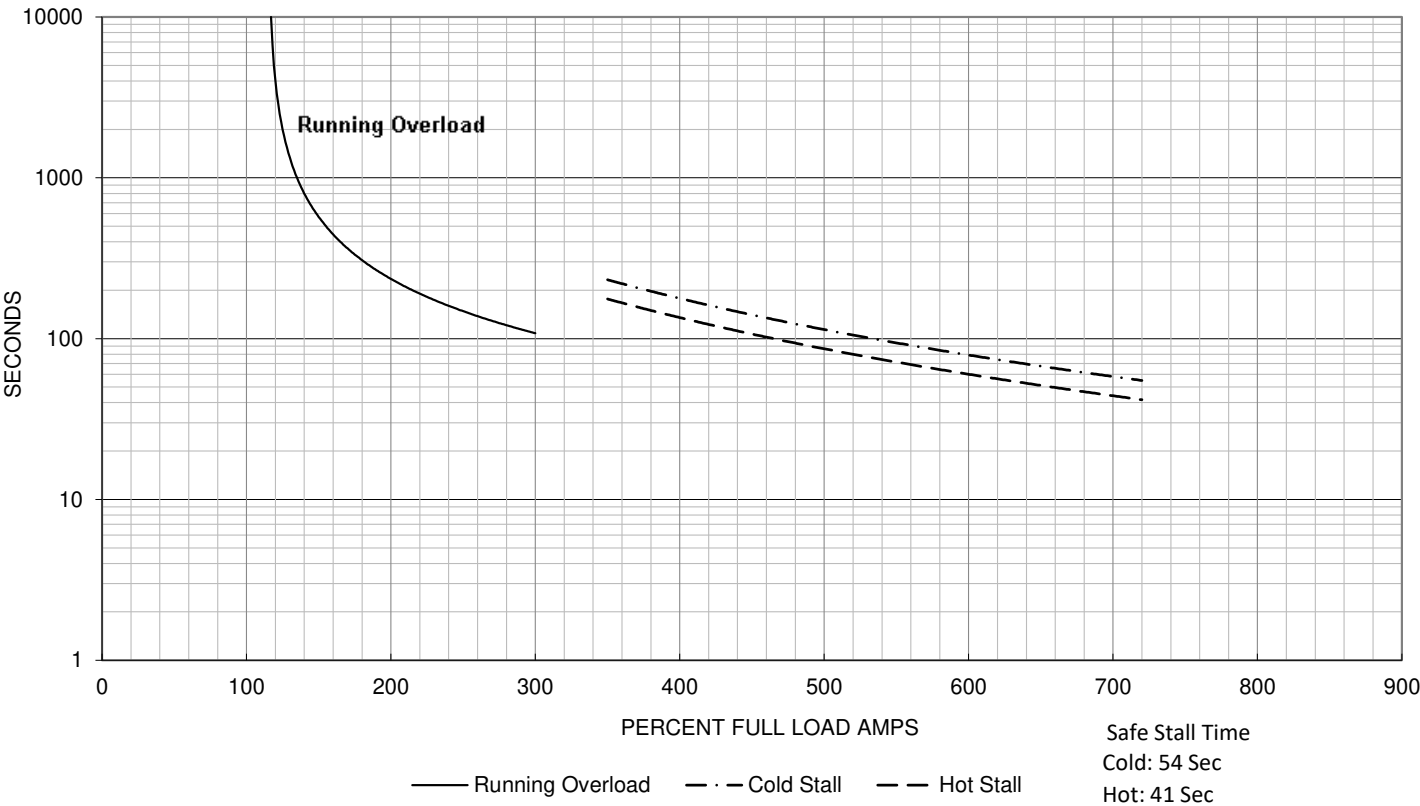


**THERMAL LIMIT CURVE**



07WGY929

7.5HP 460V 60HZ



Speed Time / Current Time Curve



07WGY929 : Variable Torque : 1.61 lb-ft<sup>2</sup> Load Inertia

7.5HP 460V 60HZ

