LOW VOLTAGE MOTOR (IEEE 841) DATA SHEET U.S. CUSTOMARY UNITS

APPLICABLE MOTOR SPECIFICATION A8KM-PP-000-50670-A

Doc. No.: A8KM-18-096-540064-A

Contract:	A8KM
Item No:	18-P-355AM/BM
Revision:	2 Date: Dec-23
Unit:	Renewable Jet Fuel Unit B
RFQ / P.O. No.:	4-601D-RQ
Sheet	1 of 1

Rev

APPLICABLE TO ○ PROPOSAL ○ PURCHASE ● AS BUILT

CLIENT: World Energy Paramount — SERVICE: Stripper Reflux Pump

PLANT: World Energy Renewables Plant — MOTOR TAG NO. / NO. REQ'D: 18-P-355AM/BM / Two (2)

SITE: Paramount, CA — DRIVEN EQUIPMENT TYPE / TAG NO.: Centrifugal Pump / 18-P-355A/B

DESIGN DATA AND ACCESSORY EQUIPMENT

NAMEPLATE 15 HP 1.15 S.F. 3600 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 °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 V PHASE °F MAX. TEMP

● OVERSIZE TERMINAL BOX ● DRAIN PLUGS

● SS NAMEPLATE ○ AUXILIARY NAMEPLATE

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

REMARKS:
10.1) This data sheet applies to motors 1/2 hp through 500 hp with anti-friction bearings.
10.2) Deleted.
10.3) IP56 degree of protection is required.
10.4) Average relative humidity is 54%.

INFORMATION BELOW TO BE COMPLETED BY VENDOR

MOTOR MFR. ABB — MODEL 09-0000-3702XN — SERIAL NO. Z2203240292 - Z2203240297

NAMEPLATE HP 15 — FULL LOAD RPM 3522 — FRAME 256T — WEIGHT 239.00 LB

MOTOR OUTLINE DRAWING NO. 09LY-000-864

ROTOR CAGE MATERIAL OF CONSTRUCTION Stainless Steel — MOTOR WINDING MATERIAL Cooper

BEARING MANUFACTURER SKF — SIZE 45BC03X30X

VERTICAL MOTOR THRUST BEARING: TYPE — CAPACITY: UP LBS DOWN LBS LOCATION

LOAD	FULL	3/4	1/2	OTHER
AMPERES	17.3	13.1	9.71	6.66
EFFICIENCY, %	91	91.7	91.1	87.4
POWER FACTOR	89	88	80	61
SPEED, RPM	3522	3544	3563	3581

LOCKED ROTOR AMPS*	116	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)*		SEC.
STALL TIMES AT ZERO RPM* - HOT / COLD	23 / 56	SEC.
NUMBER OF CONSECUTIVE STARTS*		

SOUND LEVEL: GUARANTEED <85 dBA / EXPECTED dBA

FAN MATERIAL Aluminium (NON-SPARKING)

* INDICATED AT RATED VOLTAGE

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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 54° °F

NOTES:

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

10.6 Deleted.

10.7 All motors, regardless of installed location, must be Class I, Division 2, Groups B,C,D, Temperature Code T3C, for project uniformity.