ABB Motors and Mechanical Inc. DATA TRANSMITTAL AND CERTIFICATION

| | | | | | Customer Number | | | | | Customer Order Number P.O. Date | | | | | |
|--|--|--|---|--|--|-----------------------------------|--|---|---|---------------------------------|---|---|--|--|--|
| | | | 9. | 4000 | 2 | | | | | E | BMX-SULZER | | | 11/16/2022 | |
| Central 3 | 10 | i | | | | | l — | PRELIM The as Please | /INA socia repl | ιR\ ate ly p | DATA FOR CUST d documents reques oromptly or the order | OMER sted o | R APPROVAL: n this order are submit I be delayed. | ted for approval. | |
| Central 3 | 10 | 5 | | | | | | | | | | 1 | | 11/16/2022 | |
| | | | | | | Quant | antity Fi | | | rame | | M | Motor / | | |
| | | | | | | 3.000 | 100 44 | | | 44TS | | _ | | | |
| | - HP | | - | | Hertz | - | | | E | Electrical Design | | Gen. C.D.: | | | |
| | | | | | 60 | | | | | _ | | c | onduit Box: | | |
| | | | | - | | np | | Leads Location | | | | | | | |
| T 50 5: / | | | IEFC | Π. | | | | | | | | | | | |
| Rotation DC Field Excitation Pwr Co Bi-directional | | | wr Cd | Windii | | | | = | | L | | | | | |
| sulation Mtg Drive F-1 | | | | Bearing Ball / Ball | | S <i>F</i> 1.15 | | | | Model Number | | W | | | |
| Torque | Enci | osure | | Insi | ılation | Phs | | Hertz | | | Volts | | FL Amps | | |
| RATION Design plication cocation Gr pocation Gr pocati | roup Code roup Code roup Code roup Code | IEEI Div. A B B C T3C -25C Ran Volt 80 Yes | ntrifugal E-841 . 2 C ndom tage Di | p (R | educed \ | | | | | | | | ISO | tified 9 0 0 1 | |
| | Central 3 s Potosi, S Poto | DC Field Excitation Torque Enclusion Pecifications: RATION Design plication Cocation Group Code | Central 310 s Potosi, SLP 78395 T- DM SLP Central 310 s Potosi, SLP 78395 T- DM SLP Central 310 s Potosi, SLP 78395 Torque Drive F-1 Torque Enclosure Decifications: RATION Design No 318 plication Cer Cer Div Decation Group Code A Decation Group Code B Decation Group Code D Decation Group Code C T30 T30 T30 T30 T30 T30 T30 T30 | Central 310 s Potosi, SLP 78395 F- DM SLP Central 310 s Potosi, SLP 78395 F- DM SLP Central 310 s Potosi, SLP 78395 F- DC Field Excitation Mtg Drive F-1 Torque Enclosure Decifications: RATION Design No 318 plication Centrifugal | Central 310 S Potosi, SLP 78395 S Poto | Central 310 S Potosi, SLP 78395 | Central 310 S Potosi, SLP 78395 S Poto | xico S.A. de C.V. Central 310 S Potosi, SLP 78395 C-DM SLP CONT CONT CONT CONT CONT CONT CONT CONT | xico S.A. de C.V. Central 310 S Potosi, SLP 78395 C-DM SLP Central 310 S Potosi, SLP 78395 C-DM SLP Central 31 | PRELIMINA The associate | Central 310 PRELIMINARY The associate Please reply properties of the process | PRELIMINARY, DATA FOR CUST The associated documents request least epily promptly or the order of Potosi, SLP 78395 PROVED FOR CONST | PRELIMINARY, DATA FOR CUSTOMET The associated documents requested on Protosis, SLP 78395 PRELIMINARY, DATA FOR CUSTOMET The associated documents requested on Protosis, SLP 78395 PRELIMINARY, DATA FOR CUSTOMET The associated documents requested on Protosis, SLP 78395 PRELIMINARY, DATA FOR CUSTOMET The associated documents requested on Protosis, SLP 78395 PRELIMINARY, DATA FOR CUSTOMET The associated documents requested on Protosis, SLP 78395 PRELIMINARY, DATA FOR CUSTOMET The associated documents requested to Protosis, SLP 78395 PRELIMINARY, DATA FOR CUSTOMET The associated documents requested to Protosis, SLP 78395 PRELIMINARY, DATA FOR CUSTOMET The associated documents requested to Prelease reply promptly or the order could be Protosis and SUBJECT To PRESCRIPTION | Central 310 Potosi, SLP 78395 The associated documents requested on this order are submit Please reply promptly or the order could be delayed. FINAL, APPROVED FOR CONSTRUCTION OR INSTALLATION OF INSTALLAT | |

ABB Motors and Mechanical Inc.

DATA TRANSMITTAL AND CERTIFICATION

| Sales Order Number | Customer Number | Customer Order Number | P.O. Date |
|--------------------|-----------------|-----------------------|------------|
| 1210347902-10 | 940002 | BMX-SULZER | 11/16/2022 |

Space Heater Operating Voltage 120/240

Maximum Sheath Temperature Low Temp(128 Deg C)

Space Heater Qty 1
Space Heater To Main Cbox No.

ACB Space Heater Placement Auxillary Conduit Box 1

MOUNTING

Mounting Position F-1

Frame Mounting Foot (Dual Mounting Hole)
Foot Planarity Standard (0.005 IN/FT)

Drive Method Coupled

Mounting Orientation Horizontal

Dowel Provisions Yes

Dowel Provisions Qty 4

Vertical Jacking Provisions Yes

Shaft - Special Material No

Shaft Extension TS

BEARINGS

Drive End Seal Inpro
Opposite Drive End Seal Inpro
Lube Type Grease

Grease Type Exxon Polyrex EM

Grease Fittings Rqd Y

Grease Fitting Type Alemite 1610 or equal

Grease Relief Fittings Rqd Yes
Relief Fitting Type Alemite

MECHANICAL

Balance Ultra-Standard (0.08 in/sec)

Rotation Facing ODE Bi-directional

Stainless Steel Hardware Yes

Stainless Steel Hardware Type 300 Series Stainless

Fan Material Standard Ingress Protection IP56

Paint System Prime Only no Finish Paint

Frame Grounding Required Yes

Ground Pad Type Drilled & Tapped Hole in Frame
Ground Pad Location Frame - same side as main CB
Auto Drain Type "T" Drain – Stainless Steel

MONITORING DEVICES

Bearing RTD Yes

Bearing RTD Type 100 Ohm (Platinum .00385 TCR)

Bearing RTD Wires 3

Bearing RTD Quantity 1 Total - DE Bearing Only

Winding RTD Yes

Winding RTD Type 100 Ohm (Platinum .00385 TCR)

Certified ISO9001

Engineered Motors

ABB Motors and Mechanical Inc.

DATA TRANSMITTAL AND CERTIFICATION

| Sales Order Number | Customer Number | Customer Order Number | P.O. Date |
|-------------------------------------|--------------------------------|-----------------------|-------------------|
| Sales Order Number 1210347902-10 | 940002 | BMX-SULZER | 11/16/2022 |
| Winding RTD Wires | 2 | I | |
| - | | | |
| Winding RTD Chr | Single | | |
| Winding RTD Qty | 6 Total - Two per Phase | | |
| Wdg RTD To Main Cbox | No | | |
| ACB Winding RTD Placement | Auxillary Conduit Box 2 | | |
| CONDUIT BOX | Demined | | |
| Main Conduit Box | Required | | |
| Main Conduit Box Location | Standard (side) | | |
| Main Conduit Box Material | Cast Iron | | |
| Main Conduit Box Size | One Size Larger than Oversize | | |
| Terminal Panel | No | | |
| Lead Entry Location | Toward Feet - Down | | |
| Lugs | Yes | | |
| Grounding | Yes | | |
| Terminal Blocks - Main Leads | Yes | | |
| Auxiliary Conduit Box Required | Conduit Box Required | | |
| How many Aux Conduit Boxes | 2 | | |
| Auxiliary Conduit Box 1 Size | Std (180-3/4) | | |
| Auxiliary Conduit Box 1 Loc | ODE - Opposite Side as Main CB | | |
| Auxiliary Conduit Box 2 Size | Std (180-3/4) | | |
| Auxiliary Conduit Box 2 Loc | DE - Opposite Side as Main CB | | |
| NAMEPLATE / LABELS | | | |
| Nameplate Language | English | | |
| Nameplate Material | Stainless Steel | | |
| Customer Part Number Marks | Yes | | |
| Customer Part Number | MACCUSTOMMOTOR | | |
| Unit Nameplate Markings | Yes | | |
| Unit Nameplate Markings 1 | 18-P-1812M | | |
| Unit Nameplate Markings 2 | 18-P-1880 AM | | |
| Unit Nameplate Markings 3 | 18-P-1880 BM | | |
| Additional Haz Loc Marks | Yes | | |
| Additional Haz Loc Text | CL I, ZONE 2, GP IIC IIB IIA, | | |
| Grease Type Nameplate Marking | Yes | | |
| Grease Markings | EXXON POLYREX EM | | |
| Space Heater Nameplate | Yes | | |
| Additional heater Markings | No | | |
| Label "Heater Energized" | Yes | | |
| Heater Energized Message | Energized Message | | |
| Space Heater Text | SPACE HEATERS MAY BE ENERGIZ | ED | |
| Special Nameplate Rqd | Yes | | |
| Direction Arrow Nameplate Rqd | Yes | | Certified |
| Label CSA | Yes | | ISO9001 |
| Label UR | Yes | | 1309001 |
| Efficiency Marking | DOE CC Mark Required | | Engineered Motors |

ABB Motors and Mechanical Inc.

DATA TRANSMITTAL AND CERTIFICATION

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|-----------------------------|--|---|------------------------|------------|--|--|--|--|--|
| 1210347902-10 | | 940002 | BMX-SULZER | 11/16/2022 | | | | | |
| PACKAGING | | | | | | | | | |
| Packaging Type | Open/Ho | og Crate | | | | | | | |
| TESTING | | | | | | | | | |
| IEEE841 Factory Test | Non-witr | nessed | | | | | | | |
| DOCUMENTATION | | | | | | | | | |
| Document Unit of Measure | US | | | | | | | | |
| Certified Dimension Sheet | Yes | | | | | | | | |
| Performance Data/Curves | Yes | | | | | | | | |
| Standard Connection Diagram | Yes | | | | | | | | |
| Motor Instruction Manual | Yes | | | | | | | | |
| Renewal Parts List | Yes | | | | | | | | |
| Nameplate Data | Yes | | | | | | | | |
| Center of Gravity | Yes | | | | | | | | |
| Custom Document Requirement | "2D CAI | D drawings DWG format" | | | | | | | |
| | ****** | ** VERY IMPORTANT, DO NOT OMMIT | ******** | | | | | | |
| | Motor Foot Dimensions: Length, thick & width shall be reflected in the | | | | | | | | |
| | drawing per foot. | | | | | | | | |
| | *************************************** | | | | | | | | |
| | Indicate | main box, auxiliaries boxes and specify t | he name of the | | | | | | |
| | accesso | ries included in each box. | | | | | | | |
| | Total we | eight of motor need to be reflected in the | drawing. | | | | | | |
| | Groundi | ng lugs need to be indicated in motor dra | wing main terminal box | | | | | | |
| | and bas | e plate. | | | | | | | |
| | | | tes, shall be made | | | | | | |
| | in stainle | ess steel. | | | | | | | |
| | Tag nee | d to be in special separated plate for this | purpose. | | | | | | |
| | Labels a | are not allow | | | | | | | |
| | Indicate | in Motor drawing terminal box routable in | steps of 90° when | | | | | | |
| | applicab | le. | | | | | | | |
| Documentation Format | PDF | | | | | | | | |
| SPECIAL ITEMS | | | | | | | | | |
| Custom Requirements | Yes | | | | | | | | |
| Custom Requirements | Oversize | ed to meet SF. 1.15, T3C | | | | | | | |
| COMMERCIAL COMMENTS | | | | | | | | | |
| Estimated Lead Time | | ed Lead Time is based on plant loading a | | | | | | | |
| | | stended to be used as a guide for our cus | | | | | | | |
| | | the Engineering and Manufacturing time | · | | | | | | |
| | | shipping time. Please contact your ABB N | | | | | | | |
| | Inc. representative if specific delivery requirements are needed. | | | | | | | | |

Certified ISO9001

Engineered Motors

| S/O FRAME | | HP | TYPE | TYPE PHASE HERTZ | | RPM | VOLTS | |
|--------------|--------------|------------------|--------------|------------------|-------|--|--------------|--|
| | 444 | 100 | P | 3/6 | 0 | 3565 | 460 | |
| AMPS | DUTY | AMB °C/ INSUL | S.F. | NEM DESIG | | CODE LETTER | ENCLOSURE | |
| 110 | CONT | 40/F | 1.15 | В | | F | TEFC | |
| E/S ROTOR | | TEST S.O. | | TEST DATE | | STATOR RES. @25 °C OHMS (BETWEEN LINES) | | |
| - | 418143-14-CE | | | | .0398 | | | |
| | | | PERFORMANCE | | | | | |
| LOAD | НР | AMPERES | R | RPM | | WER FACTOR | % EFFICIENCY | |
| NO LOAD | 0 | 25.0 | 3 | 3600 | | 11.8 | 0 | |
| 1/4 | 25.0 | 36.8 | 3 | 3592 | | 72.1 | 88.3 | |
| 2/4 | 50.1 | 58.1 | 3 | 3585 | | 86.8 | 92.9 | |
| 3/4 | 75.0 | 83.3 | 3 | 3578 | | 89.6 | 94.1 | |
| 4/4 | 100 | 110 | 3 | 3570 | | 90.0 | 94.4 | |
| 5/4 | 125 138 | | 3 | 3561 | | 90.2 | 94.3 | |
| | | | | | | | | |
| | | | SPEED TORQUE | | | | | |
| | | RPM | | QUE L LOAD | TOR | QUE LBFT. | AMPERES | |
| LOCKED ROTOR | | 0 | | 166 | | 244 | 690 | |
| PULL UP | | 1800 | | 139 | | 205 | 578 | |
| BREAKDOWN | | 3440 | | 249 | | 367 | 435 | |
| FULL LOAD | | 3570 | | 100 | | 147 | 110 | |

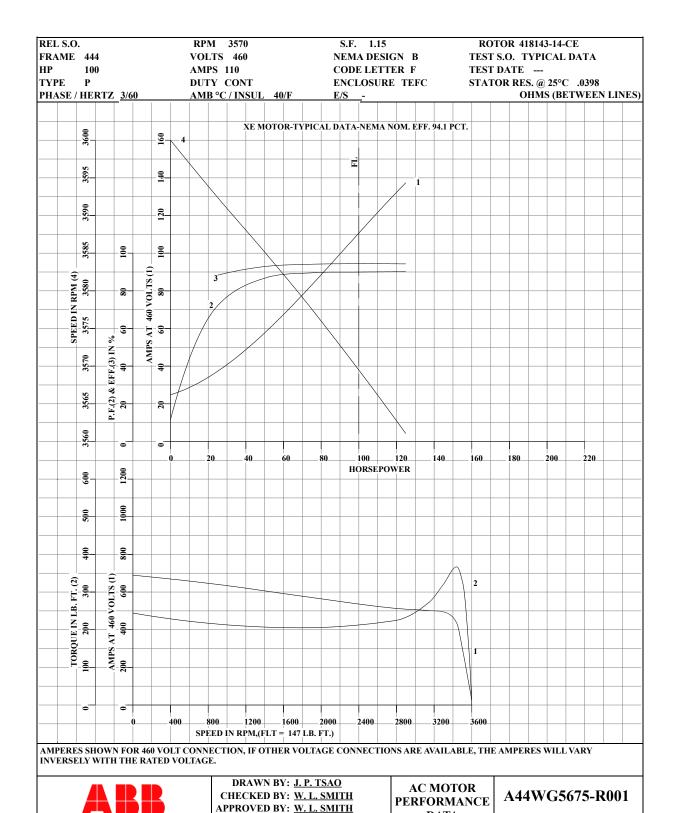
TYPICAL DATA XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 94.1 PCT.



DRAWN BY: J. P. TSAO
CHECKED BY: W. L. SMITH
APPROVED BY: W. L. SMITH DATE: <u>01/21/19</u>

AC MOTOR PERFORMANCE DATA

A44WG5675-R001 DATE ISSUED 12/01/20



DATE: <u>01/21/19</u>

DATA

ISSUE DATE 12/01/2022