



FORCES ON BASE:
 STATIC: FA=FB=29.8 kN [FA=FB=6689 lbf.]
 NOMINAL LOADING: FA=FB=29.8±10.9 kN [FA=FB=6689±2460 lbf.]
 2-PHASE SHORTCIRCUIT: FA=FB=29.8±85.5 kN [FA=FB=6689±19210 lbf.]
 OIL VISCOSITY: ISO VG 46
 OIL CAPACITY NDE: 8 L [2.113 GAL]
 OIL CHANGING INTERVAL: 8000 OPERATING HOURS
 MINIMUM MECHANICAL SPEED 599 RPM

| | |
|----|--|
| 1 | INSULATED OIL LUBRICATED SLEEVE BEARING EFZLB14-140 |
| 2 | INSULATED OIL LUBRICATED SLEEVE BEARING EFZLB14-140 |
| 3 | TERMINAL BOX FOR ACCESSORIES CABLE #11-#14, 2*M20X1.5 |
| 4 | PT100, BEARING |
| 5 | MAIN TERMINAL BOX BLIND FLANGE 10X568X390 |
| 6 | SPACE HEATER |
| 7 | TERMINAL BOX FOR SPACE HEATERS AND DIFFERENTIAL PRESSURE SWITCH CABLE #11-#14, 1*M20X1.5 |
| 8 | PROVISION FOR PROXIMITY PROBES CONNECTION THREAD M10X1 |
| 9 | PROVISION FOR KEYPHASOR CONNECTION THREAD M10X1 |
| 10 | FILTER STAINLESS STEEL |
| 11 | DIFFERENTIAL PRESSURE SWITCH |
| 12 | DRAIN PLUG |
| 13 | TERMINAL BOX FOR PROXIMITY TRANSDUCERS BLIND FLANGE |

Use special rights in this document and the information contained herein. Reproduction or disclosure to third parties without express authority is strictly forbidden.
 © ATOM-H, VADDARAK

Symbols for roughness according to ISO 1302.
 9ADA 431

General tolerances for linear and angular dimensions and geometrical tolerances: ISO 2768 -mK
 Referential standards 9ADA 422, DIN 71681:1

DIRECTION OF ROTATION LOOKING AT DE SHAFT EXTENSION.
 THE BEARINGS OF THIS ELECTRIC MACHINE DO NOT WITHSTAND CONTINUOUS AXIAL FORCES. THE AXIAL LOAD MUST BE CARRIED BY THE BEARINGS OF THE DRIVEN MACHINE, WHICH MUST ALSO LOCK THE SHAFT SYSTEM AXIALLY. THE COUPLING MUST BE LIMITED TYPE WITH MAXIMUM AXIAL MOVEMENT LESS THAN AXIAL END FLOAT OF ROTOR.
 WHEN THE MACHINERY IS IN OPERATION, THE PERMISSIBLE AXIAL DISPLACEMENT MUST BE TAKEN INTO ACCOUNT DURING INSTALLATION OF THE MACHINERY.
 ROTOR MECHANICAL END FLOAT IS ± 8 mm [0.315"]

DURING THE INITIAL INSTALLATION PLACE 2 mm [0.0787"] SHIMS UNDER THE FEET OF THE MOTOR. THE CUSTOMER IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE FOUNDATION. IT SHALL BE SUFFICIENTLY RIGID TO WITHSTAND SHORT CIRCUIT FORCES. TO AVOID RESONANCE VIBRATIONS THE FOUNDATION SHALL BE DESIGNED SO THAT THE NATURAL FREQUENCY OF FOUNDATION TOGETHER WITH MACHINE IS NOT WITHIN ±20% OF RUNNING SPEED FREQUENCY. THE CUSTOMER IS ALSO RESPONSIBLE FOR LATERAL AND TORSIONAL CRITICAL SPEED ANALYSIS OF THE COMPLETE INSTALLATION.

| Enerflex Ltd. VENDOR DRAWING/DOCUMENT REVIEW CODES | | |
|--|-------------------------------------|--|
| 1 | <input checked="" type="checkbox"/> | Reviewed and accepted with no comment. |
| 2 | <input type="checkbox"/> | Reviewed and accepted with comment. Work may proceed subject to incorporation of comments. |
| 3 | <input type="checkbox"/> | Revise and resubmit. Work will NOT proceed. |
| 4 | <input type="checkbox"/> | Review not required (for information only). |
| Reviewed only as to general conformity with the design concept and specifications provided. Sole responsibility for correct design, detail and dimensions shall remain with the party submitting the document. | | |
| Checked By | Date | Project No. |
| dwallace | 2/14/2019 | E104026 |

| | | | | | |
|-------------------------------|-----------------------------------|------------------------|---------------------|--------------------|-------------------|
| Customer Reference | 5: 02C 7.4_1750HP,6P,4kV_MSSappvd | Our Reference | 2800IY200 | Protection/Cooling | IP24W IC01 (WP11) |
| Additional Information | | | | | |
| Class I Division 2 Group D T3 | | | | | |
| Prepared | 2019-01-29 GRACE ZHAO | Title | SQUIRREL CAGE MOTOR | | |
| Reviewed | 2019-01-29 LEON HUANG | Responsible Department | | | |
| Approved | 2019-01-29 KENNY KE | Original Dwg | | | |
| Distribution | 14 | Functional Code | AH | Order No. | 13360 |
| Weight | 13360 lbs | Type | AMI 500L6W BSFNS | Mounting | F1 |
| ABB ELECTRICAL MACHINES LTD. | | | Document No. | 3GYB3898258 | Revision Sheet |
| | | | | A | 1/1 |