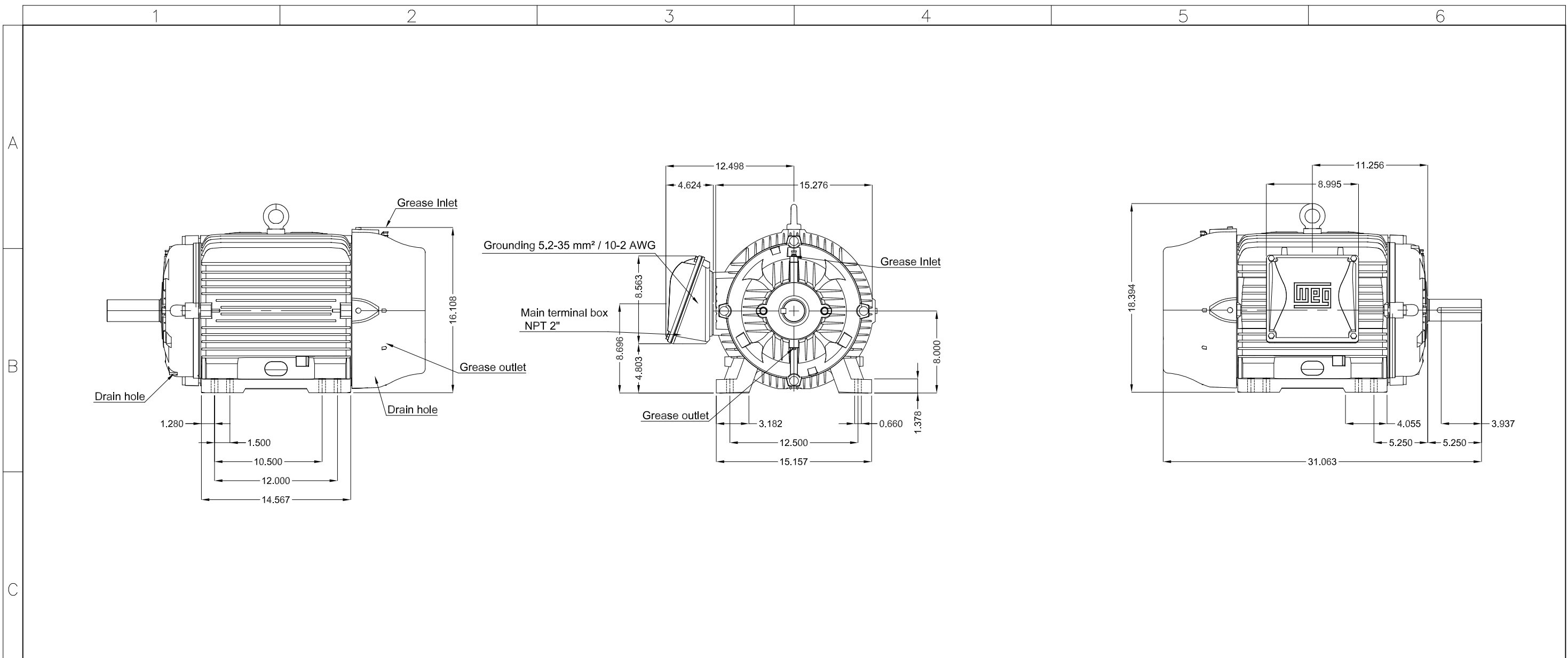


DATA SHEET

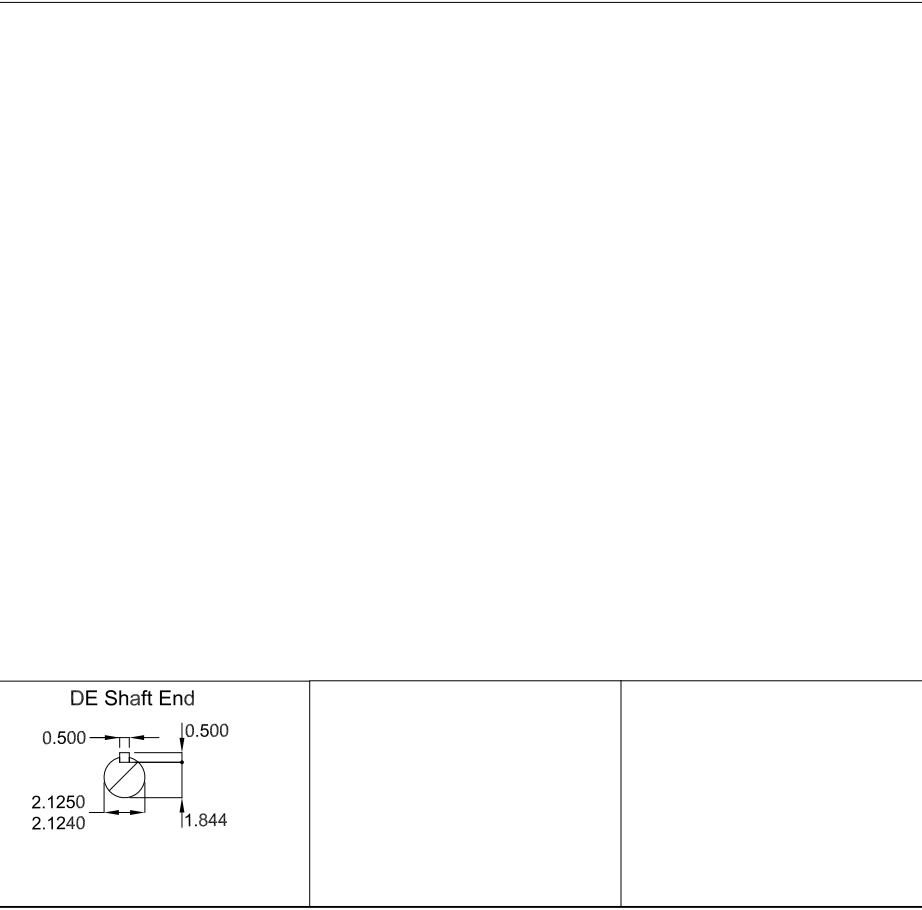


Three Phase Induction Motor - Squirrel Cage

| | | | | | | | | | | | | | | | | |
|---|--|---------------|--|--|---------------|----------------|------|------|------|------|--------------|------|------|------|------|---|
| Customer : | | | | | | | | | | | | | | | | |
| Product line : W22 NEMA Premium Efficiency Three-Phase | Product code : 11438076 Catalog # : 05018ET3E326T-W22 | | | | | | | | | | | | | | | |
| Frame : 324/6T Output : 50 HP (37 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 118/59.2 A L. R. Amperes : 734/367 A LRC : 6.2x(Code G) No load current : 47.0/23.5 A Rated speed : 1775 rpm Slip : 1.39 % Rated torque : 148 ft.lb Locked rotor torque : 229 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 9.16 sq.ft.lb Design : B | Locked rotor time : 27s (cold) 15s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 70.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 598 lb | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>92.5</td> <td>93.0</td> <td>94.1</td> <td>94.5</td> </tr> <tr> <td>Power Factor</td> <td>0.42</td> <td>0.66</td> <td>0.77</td> <td>0.83</td> </tr> </table> | Output | 25% | 50% | 75% | 100% | Efficiency (%) | 92.5 | 93.0 | 94.1 | 94.5 | Power Factor | 0.42 | 0.66 | 0.77 | 0.83 | Foundation loads Max. traction : 1483 lb Max. compression : 2082 lb |
| Output | 25% | 50% | 75% | 100% | | | | | | | | | | | | |
| Efficiency (%) | 92.5 | 93.0 | 94.1 | 94.5 | | | | | | | | | | | | |
| Power Factor | 0.42 | 0.66 | 0.77 | 0.83 | | | | | | | | | | | | |
| Losses at normative operating points (speed;torque), in percentage of rated output power | | | | | | | | | | | | | | | | |
| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) | | | | | | | | | | |
| 5.7 | 4.9 | 4.7 | 2.7 | 1.9 | 1.2 | 0.9 | | | | | | | | | | |
| Drive end Bearing type : 6312 C3 Sealing : V'Ring Lubrication interval : 20000 h Lubricant amount : 21 g Lubricant type : Mobil Polyrex EM | | | Non drive end Bearing type : 6212 C3 Sealing : V'Ring Lubrication interval : 20000 h Lubricant amount : 13 g | | | | | | | | | | | | | |
| Notes USABLE @208V 131A SF 1.15 SFA 151A | | | | | | | | | | | | | | | | |
| This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. | | | | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. | | | | | | | | | | | | |
| Rev. | Changes Summary | | | Performed | Checked | Date | | | | | | | | | | |
| Performed by | | | | | | | | | | | | | | | | |
| Checked by | | | | | Page | Revision | | | | | | | | | | |
| Date | 11/10/2023 | | | | 1 / 1 | | | | | | | | | | | |



| |
|-----------------------------|
| Without vertical jackscrews |
| Color RAL 5009 |
| Painting plan 203A |
| Mounting B3R(D) |



50 HP 04 Poles 60 Hz A

| ECM | | LOC | SUMMARY OF MODIFICATIONS | HYBRISUSER | EXECUTED | CHECKED | RELEASED | DATE | VER |
|-----------|------------|-----|-------------------------------------|------------|----------|---------|----------|------|-----|
| EXECUTED | HYBRISUSER | | THREE PH. MOTOR W22 NEMA PREM. EFF. | | | | | | 00 |
| CHECKED | | | FRAME 324/6T IP55 TEFC | | | | | | |
| RELEASED | | | | | | | | | |
| REL. DATE | | | | | | | | | |

PREVIEW

WDD | 00

SHEET /



FOR SAFE AREA
Mod. TE1BFOXON
CC029A



For use on 60Hz

Class I, Div 2, Gr A, B, C and D - T3

Class I, Zone 2, IIC - T3

Class II, Div 2, Gr F and G - T4

For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.00SF - T3A

MODEL 05018ET3E326T-W22

Inverter Duty Motor
Severe Duty

PH3 60Hz Fr. 324/6T 1000m.a.s.l. IP55 TEFC 598lb

V 230/460

A 118/59.2

HP 50

kW 37

SF 1.25

SFA 148/74.0

RPM 1775

PF 0.83

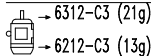
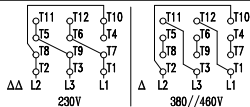
AMB 40°C

INS cl. F DT80K NEMA NOM EFF 94.5%

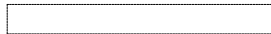
DUTY CONT.

DES B Code G

50HP 37kW 50Hz 380V 71.6A 1460RPM SF 1.00 EFF 92.4% (IE1)



MOBIL POLYREX EM (20000h)



MADE IN MEXICO
11438076