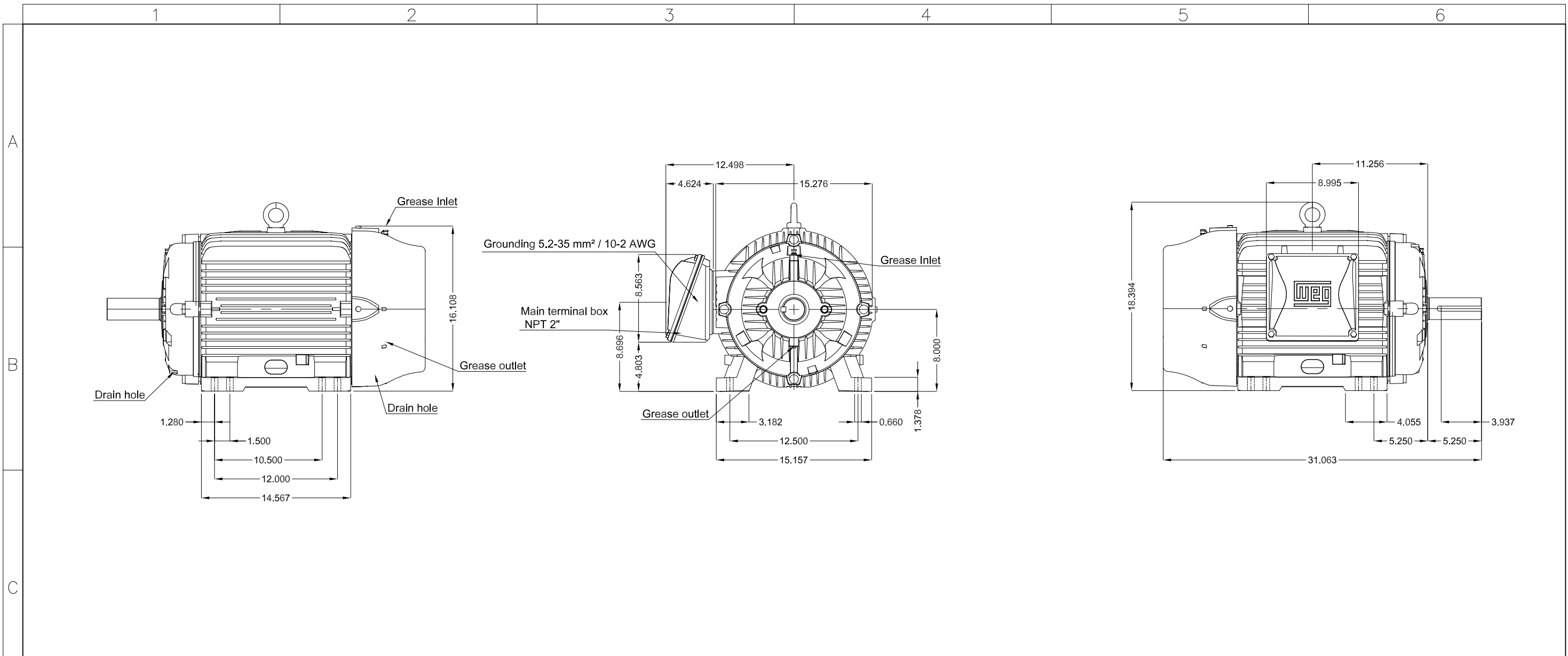


# DATA SHEET

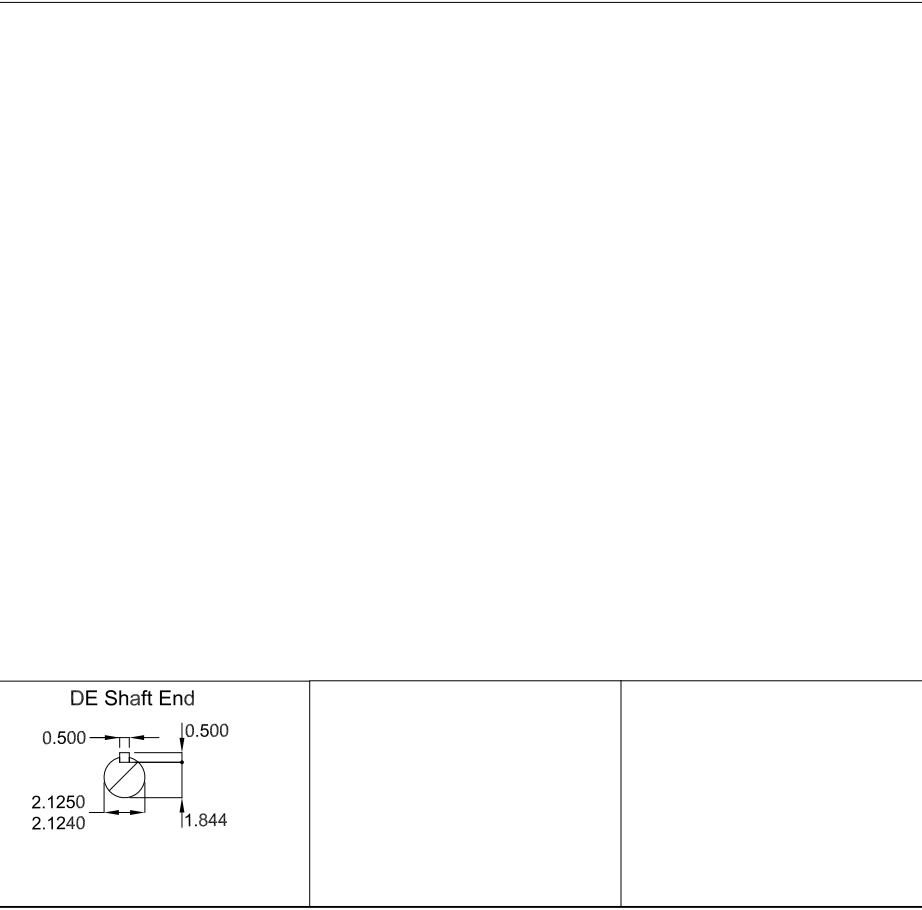


## Three Phase Induction Motor - Squirrel Cage

|  |  |                  |                  |  |               |                |                      |      |      |      |              |      |      |      |      |  |
|--|--|------------------|------------------|--|---------------|----------------|----------------------|------|------|------|--------------|------|------|------|------|--|
| Customer :   |  |                  |                  |  |               |                |                      |      |      |      |              |      |      |      |      |  |
| Product line : W22 NEMA Premium Efficiency Three-Phase   | Product code : 11723922<br>Catalog # : 04018ET3E324T-W22   |                  |                  |  |               |                |                      |      |      |      |              |      |      |      |      |  |
| Frame : 324/6T<br>Output : 40 HP (30 kW)<br>Poles : 4<br>Frequency : 60 Hz<br>Rated voltage : 230/460 V<br>Rated current : 94.2/47.1 A<br>L. R. Amperes : 575/287 A<br>LRC : 6.1x(Code G)<br>No load current : 34.0/17.0 A<br>Rated speed : 1775 rpm<br>Slip : 1.39 %<br>Rated torque : 118 ft.lb<br>Locked rotor torque : 229 %<br>Breakdown torque : 240 %<br>Insulation class : F<br>Service factor : 1.25<br>Moment of inertia (J) : 9.16 sq.ft.lb<br>Design : B | Locked rotor time : 36s (cold) 20s (hot)<br>Temperature rise : 80 K<br>Duty cycle : Cont.(S1)<br>Ambient temperature : -20°C to +40°C<br>Altitude : 1000 m.a.s.l.<br>Protection degree : IP55<br>Cooling method : IC411 - TEFC<br>Mounting : F-1<br>Rotation <sup>1</sup> : Both (CW and CCW)<br>Noise level <sup>2</sup> : 66.0 dB(A)<br>Starting method : Direct On Line<br>Approx. weight <sup>3</sup> : 562 lb |                  |                  |  |               |                |                      |      |      |      |              |      |      |      |      |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>93.5</td> <td>93.6</td> <td>94.1</td> <td>94.1</td> </tr> <tr> <td>Power Factor</td> <td>0.46</td> <td>0.72</td> <td>0.80</td> <td>0.85</td> </tr> </table>   | Output   | 25%              | 50%              | 75%  | 100%          | Efficiency (%) | 93.5                 | 93.6 | 94.1 | 94.1 | Power Factor | 0.46 | 0.72 | 0.80 | 0.85 | Foundation loads<br>Max. traction : 980 lb<br>Max. compression : 1542 lb |
| Output   | 25%  | 50%              | 75%              | 100%   |               |                |                      |      |      |      |              |      |      |      |      |  |
| Efficiency (%)   | 93.5   | 93.6             | 94.1             | 94.1   |               |                |                      |      |      |      |              |      |      |      |      |  |
| Power Factor   | 0.46   | 0.72             | 0.80             | 0.85   |               |                |                      |      |      |      |              |      |      |      |      |  |
| 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) |                      |      |      |      |              |      |      |      |      |  |
| 6.1  | 5.1  | 5.0              | 2.8              | 1.9  | 1.2           | 0.8            |                      |      |      |      |              |      |      |      |      |  |
|  |  |                  | <u>Drive end</u> |  |               |                | <u>Non drive end</u> |      |      |      |              |      |      |      |      |  |
| Bearing type   | :  | 6312 C3          |                  | 6212 C3  |               |                |                      |      |      |      |              |      |      |      |      |  |
| Sealing  | :  | V'Ring           |                  | V'Ring   |               |                |                      |      |      |      |              |      |      |      |      |  |
| Lubrication interval   | :  | 20000 h          |                  | 20000 h  |               |                |                      |      |      |      |              |      |      |      |      |  |
| Lubricant amount   | :  | 21 g             |                  | 13 g   |               |                |                      |      |      |      |              |      |      |      |      |  |
| Lubricant type   | :  | Mobil Polyrex EM |                  |  |               |                |                      |      |      |      |              |      |      |      |      |  |
| Notes<br>USABLE @208V 104A SF 1.15 SFA 120A  |  |                  |                  |  |               |                |                      |      |      |      |              |      |      |      |      |  |
| This revision replaces and cancel the previous one, which must be eliminated.<br>(1) Looking the motor from the shaft end.<br>(2) Measured at 1m and with tolerance of +3dB(A).<br>(3) Approximate weight subject to changes after manufacturing process.<br>(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)             |



|                      |            |                                     |  |  |  |            |         |          |      |     |
|----------------------|------------|-------------------------------------|--|--|--|------------|---------|----------|------|-----|
| 40 HP 04 Poles 60 Hz |            |                                     |  |  |  |            |         |          |      | A   |
|                      |            |                                     |  |  |  |            |         |          |      |     |
|                      |            |                                     |  |  |  |            |         |          |      |     |
|                      |            |                                     |  |  |  |            |         |          |      |     |
| ECM                  | LOC        | SUMMARY OF MODIFICATIONS            |  |  |  | HYBRISUSER |         |          |      | 00  |
| EXECUTED             | HYBRISUSER | THREE PH. MOTOR W22 NEMA PREM. EFF. |  |  |  | EXECUTED   | CHECKED | RELEASED | DATE | VER |
| CHECKED              |            | FRAME 324/6T IP55 TEFC              |  |  |  |            |         |          |      |     |
| RELEASED             |            |                                     |  |  |  |            |         |          |      |     |
| REL. DATE            |            |                                     |  |  |  |            |         |          |      |     |
|                      |            |                                     |  |  |  | PREVIEW    |         | WDD 00   |      |     |
|                      |            |                                     |  |  |  | SHEET /    |         |          |      |     |

MADE IN MEXICO  
11723922



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 04018ET3E324T-W22

Inverter Duty Motor  
Severe Duty

PH3 60Hz Fr. 324/6T 1000m.a.s.l. IP55 TEFC 562lb

V 230/460

A 94.2/47.1

HP 40

kW 30

SF 1.25

SFA 118/58.9

RPM 1775

PF 0.85

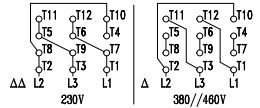
AMB 40°C

INS cl. F DT80K NEMA NOM EFF 94.1%

DUTY CONT.

DES B Code G

40HP 30kW 50Hz 380V 57.4A 1460RPM SF 1.00 EFF 92.4% (IE2)



→ 6312-C3 (21g)

→ 6212-C3 (13g)



MOBIL POLYREX EM (20000h)

