

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Explosion Proof Single-Phase Product code : 10741532

| | | | |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame | : D56EX | Locked rotor time | : 10s (cold) 6s (hot) |
| Output | : 0.75 HP (0.550 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 115/208-230 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 11.0/5.40-5.50 A | Protection degree | : IP44 |
| L. R. Amperes | : 70.4/34.6-35.2 A | Cooling method | : IC411 - TEFC |
| LRC | : 6.4x(Code M) | Mounting | : F-1 |
| No load current | : 8.40/3.62-4.20 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1760 rpm | Noise level ² | : 50.0 dB(A) |
| Slip | : 2.22 % | Starting method | : Direct On Line |
| Rated torque | : 0.309 kgfm | Approx. weight ³ | : 19.1 kg |
| Locked rotor torque | : 320 % | | |
| Breakdown torque | : 300 % | | |
| Insulation class | : B | | |
| Service factor | : 1.15 | | |
| Moment of inertia (J) | : 0.0053 kgm ² | | |

| | | | | | |
|----------------|------|------|------|------------------|----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 57.0 | 65.0 | 71.5 | Max. traction | : 20 kgf |
| Power Factor | 0.42 | 0.53 | 0.61 | Max. compression | : 39 kgf |

| | | | |
|----------------------|---|----------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6203 ZZ | 6203 ZZ |
| Sealing | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Notes

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 | | Page 1 / 2 Revision | | |
| Checked by | | | | |
| Date | 26/10/2024 | | | |

LOAD PERFORMANCE CURVE

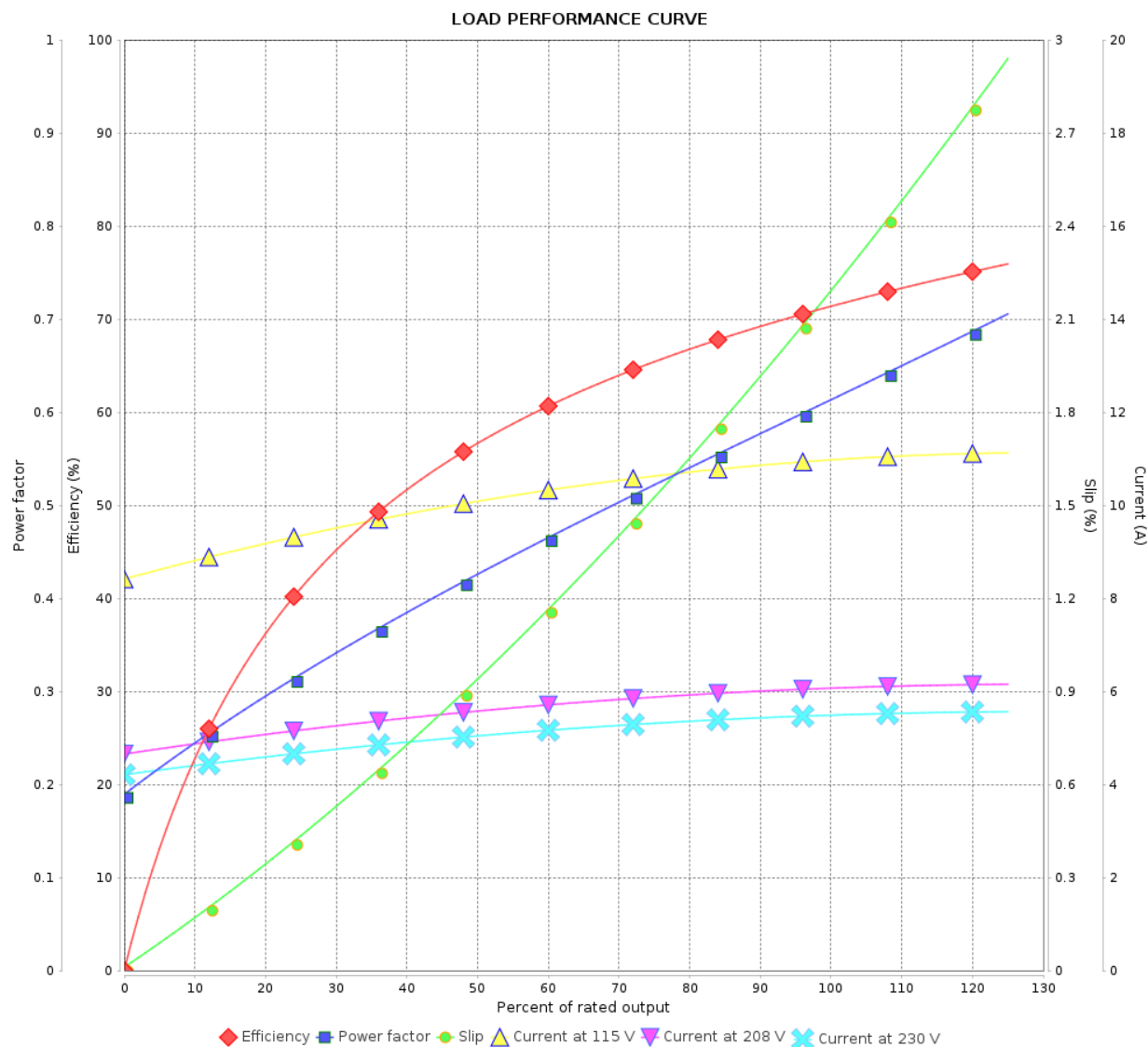
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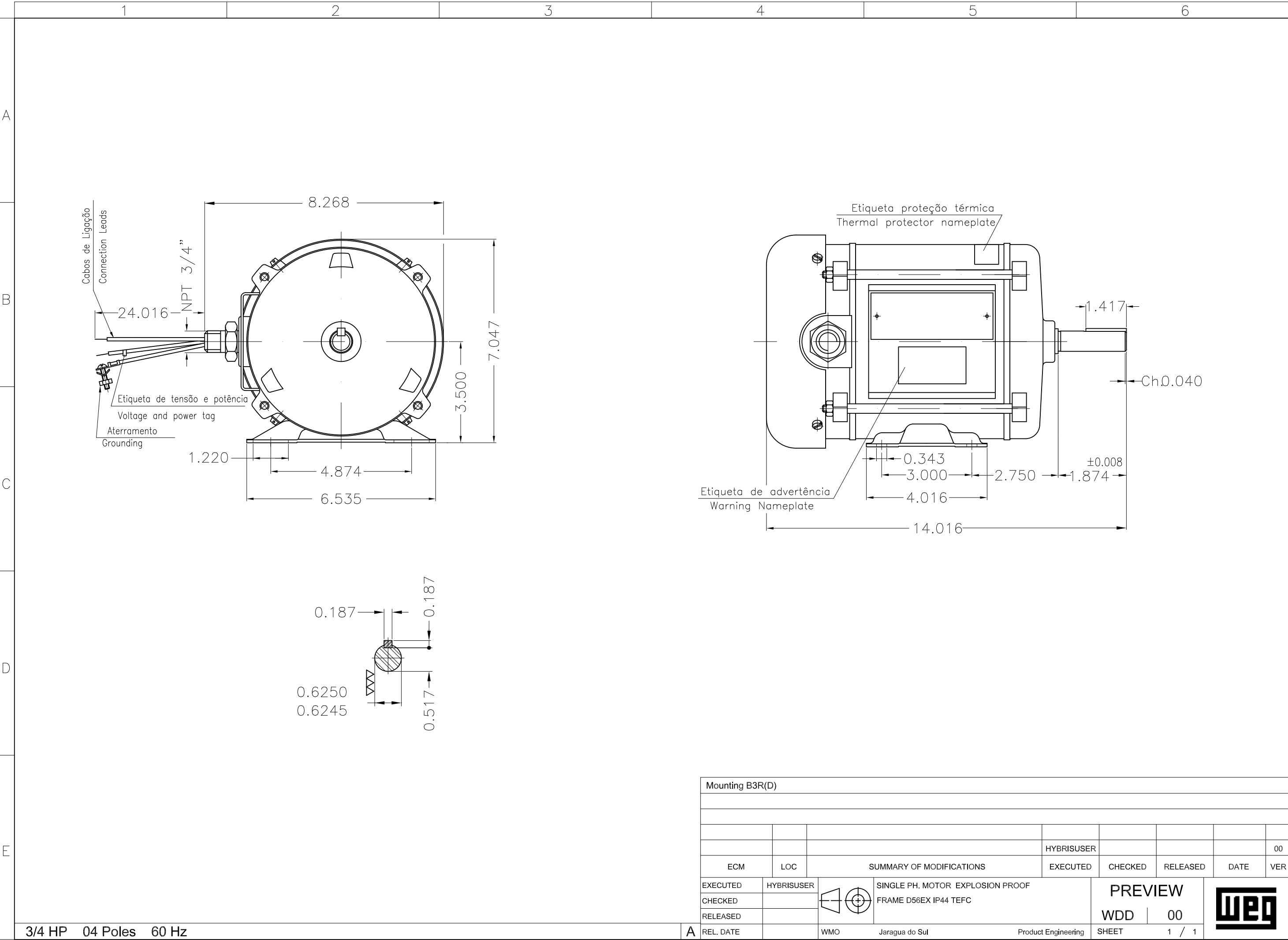


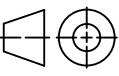

Performance : 115/208-230 V 60 Hz 4P

Rated current : 11.0/5.40-5.50 A
LRC : 6.4
Rated torque : 0.309 kgfm
Locked rotor torque : 320 %
Breakdown torque : 300 %
Rated speed : 1760 rpm

Moment of inertia (J) : 0.0053 kgm²
Duty cycle : Cont.(S1)
Insulation class : B
Service factor :
Temperature rise : 80 K

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------------------|---------|------|
| | | | | |
| Performed by | | Page 2 / 2Revision | | |
| Checked by | | | | |
| Date | 26/10/2024 | | | |



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|-----------------|------------|---|----------------|---------------------|----------|---------|---|------|-----|
| Mounting B3R(D) | | | | | | | | | |
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| | | | | | | | | | |
| | | | | HYBRISUSER | | | | | 00 |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | | EXECUTED | CHECKED | RELEASED | DATE | VER |
| EXECUTED | HYBRISUSER |  SINGLE PH. MOTOR EXPLOSION PROOF FRAME D56EX IP44 TEFC | | | PREVIEW | |  | | |
| CHECKED | | | | | | | | | |
| RELEASED | | | | | | | | | |
| REL. DATE | | WMO | Jaragua do Sul | Product Engineering | SHEET | 1 / 1 | | | |

3/4 HP 04 Poles 60 Hz

A