

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



| | | | | |
|--|---|-------------------------|--|----------|
| Customer : | | | | |
| Product line : Single-Phase | | Product code : 13607851 | | |
| Frame : W56C | Cooling method : IC01 - ODP | | | |
| Insulation class : F | Mounting : F-1 | | | |
| Duty cycle : Cont.(S1) | Rotation ¹ : Both (CW and CCW) | | | |
| Ambient temperature : -20°C to +40°C | Starting method : Direct On Line | | | |
| Altitude : 1000 m.a.s.l. | Approx. weight ³ : 7.1 kg | | | |
| Design : N | Moment of inertia (J) : 0.0013 kgm ² | | | |
| Output [HP] | 0.25 | | | |
| Poles | 4 | | | |
| Frequency [Hz] | 60 | | | |
| Rated voltage [V] | 115/208-230 | | | |
| Rated current [A] | 4.66/2.58-2.33 | | | |
| L. R. Amperes [A] | 24.7/13.7-12.3 | | | |
| LRC [A] | 5.3x(Code N) | | | |
| No load current [A] | 4.00/1.72-2.00 | | | |
| Rated speed [RPM] | 1735 | | | |
| Slip [%] | 3.61 | | | |
| Rated torque [kgfm] | 0.105 | | | |
| Locked rotor torque [%] | 310 | | | |
| Breakdown torque [%] | 280 | | | |
| Service factor | | | | |
| Temperature rise | 80 K | | | |
| Locked rotor time | 25s (cold) 14s (hot) | | | |
| Noise level ² | 50.0 dB(A) | | | |
| Efficiency (%) | 25% | | | |
| | 50% | 46.0 | | |
| | 75% | 54.0 | | |
| | 100% | 57.0 | | |
| Power Factor | 25% | | | |
| | 50% | 0.41 | | |
| | 75% | 0.51 | | |
| | 100% | 0.59 | | |
| Bearing type : 6203 ZZ | Drive end | Non drive end | Foundation loads | |
| Sealing : Without | | | Max. traction | : 5 kgf |
| | Bearing Seal | Bearing Seal | Max. compression | : 13 kgf |
| 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 |
| | | | | |
| Performed by | | | Page 1 / 2 | Revision |
| Checked by | | | | |
| Date | 17/05/2022 | | | |

LOAD PERFORMANCE CURVE

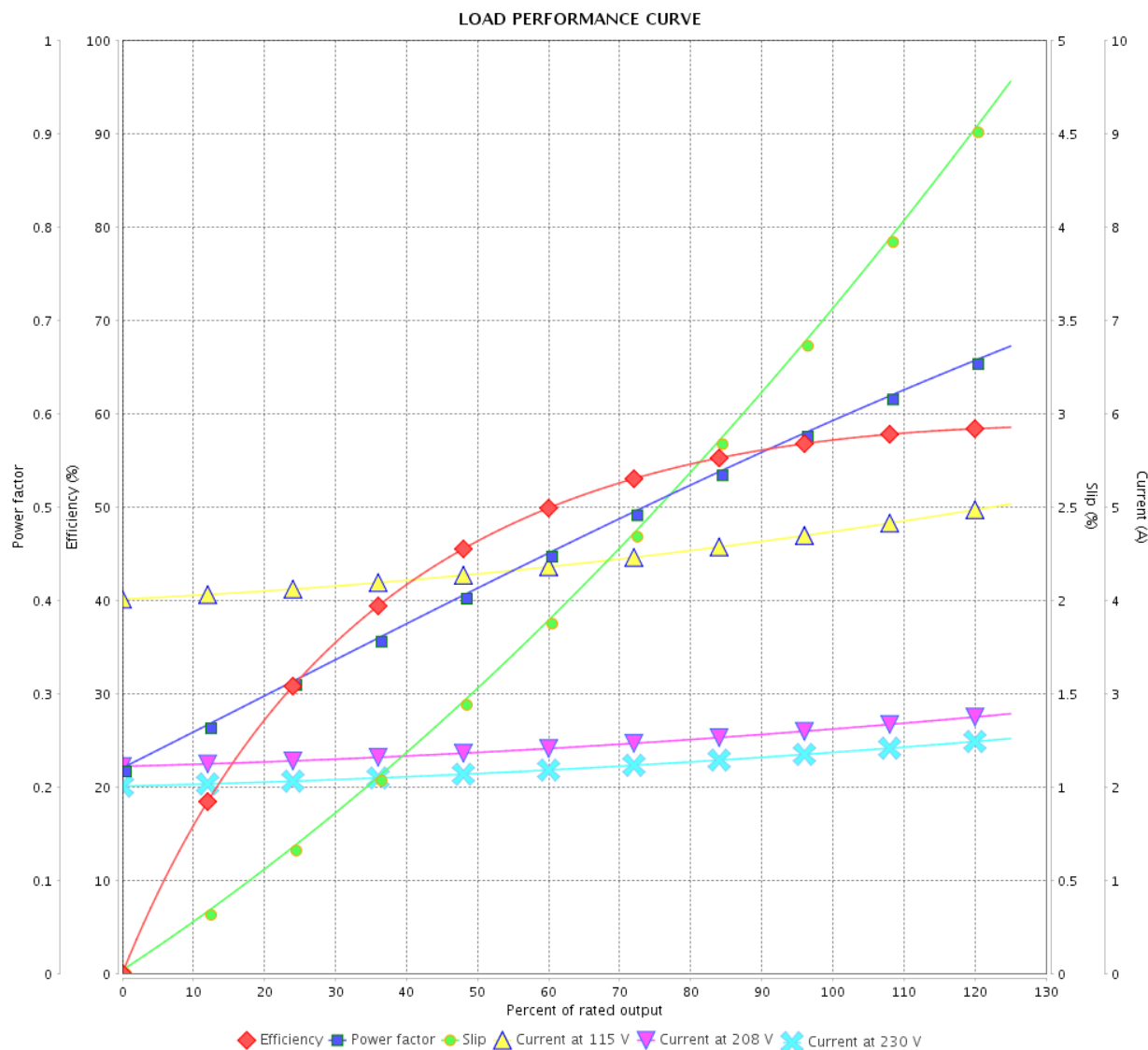
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 13607851

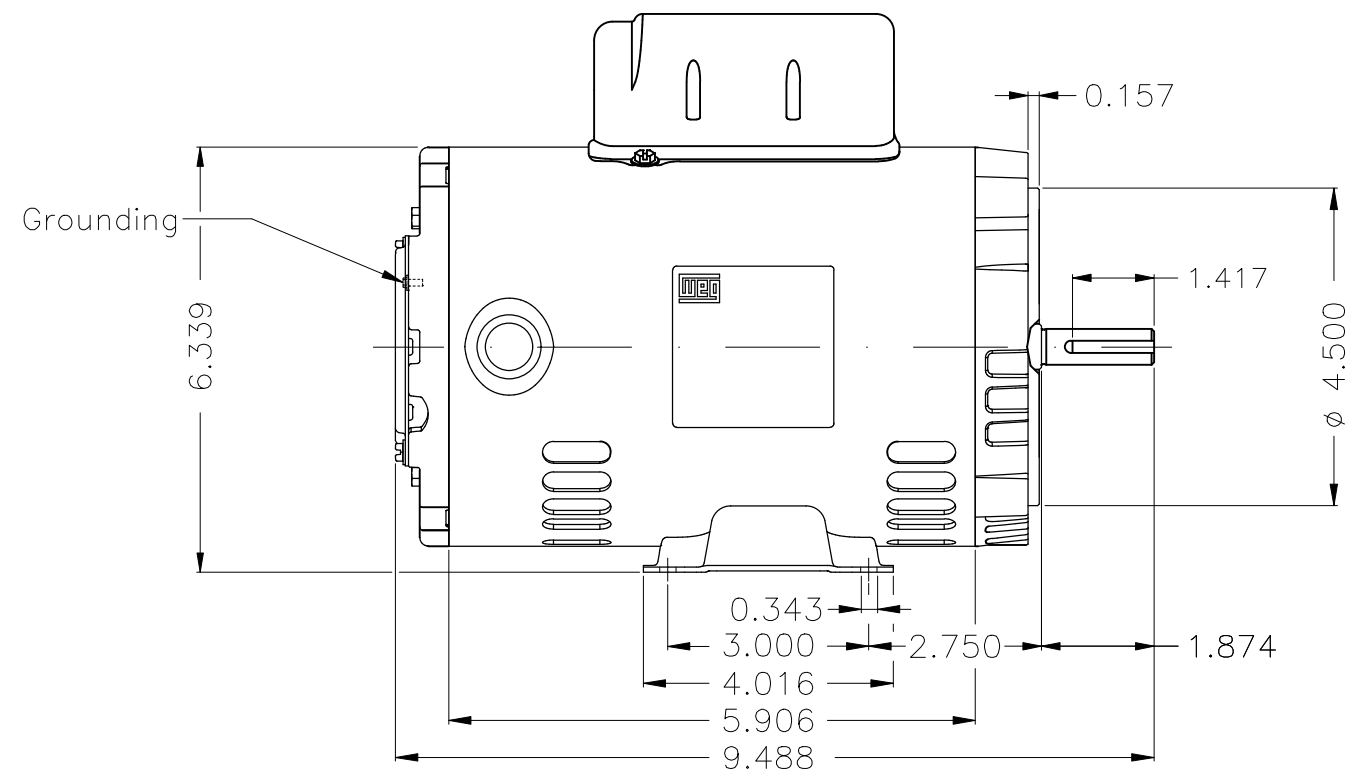
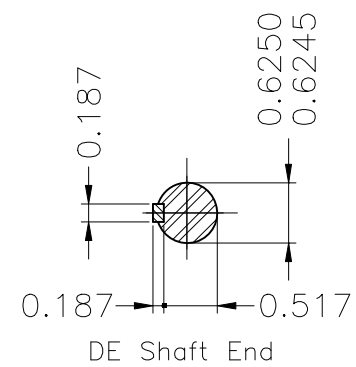
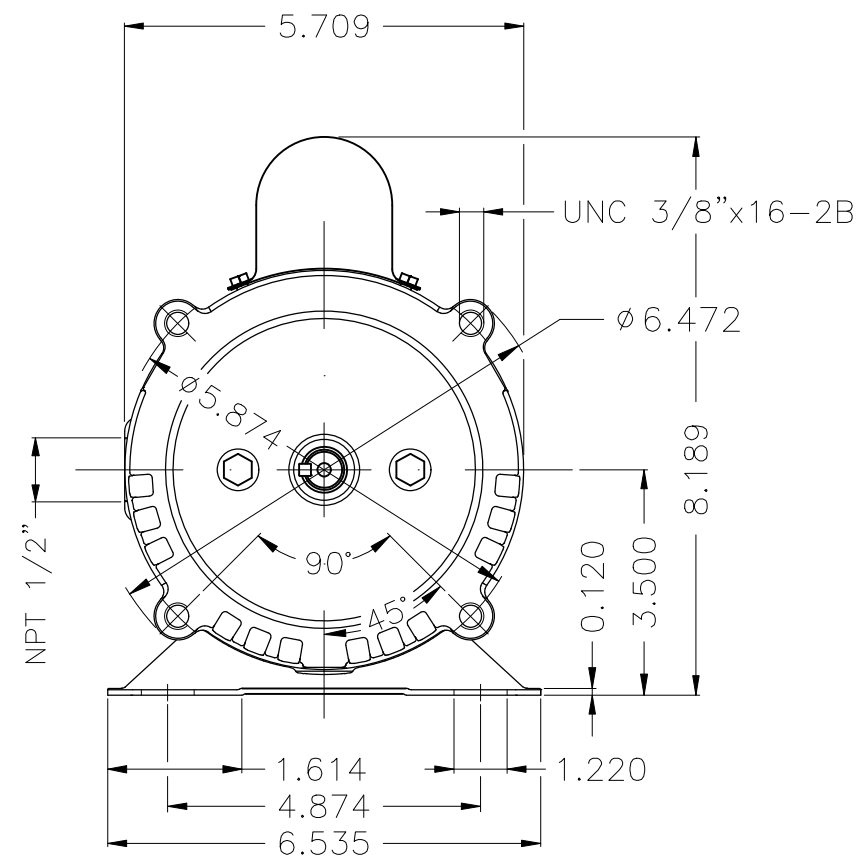


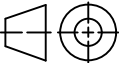

Performance : 115/208-230 V 60 Hz 4P

Rated current : 4.66/2.58-2.33 A
 LRC : 5.3
 Rated torque : 0.105 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 280 %
 Rated speed : 1735 rpm

Moment of inertia (J) : 0.0013 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : N

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|---------------|
| | | | | |
| Performed by | | | | Page 2 / 2 |
| Checked by | | | | |
| Date | | | | |
| | 17/05/2022 | | | Revision |



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|-------------------------------|------------|---|--|---------------------|----------|---------------------|----------|---|-----|
| Color Munsell N 1 matte black | | | | | | | | | |
| Painting plan 207N | | | | | | | | | |
| Mounting B34D | | | | | | | | | |
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| | | | | | | | | | |
| | | | | HYBRISUSER | | | | | 00 |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | | EXECUTED | CHECKED | RELEASED | DATE | VER |
| EXECUTED | HYBRISUSER |  | SINGLE PH. MOTOR ROLLED STEEL FRAME W56C IP21 ODP | | | PREVIEW WDD 00 | |  | |
| CHECKED | | | | | | | | | |
| RELEASED | | | | | | | | | |
| REL. DATE | | WMO | Jaragua do Sul | Product Engineering | SHEET | 1 / 1 | | | |