

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | | | |
|---|---------------------------------|-------------------------------|---|----------|----------|
| Customer | : | | | | |
| Product line | : Jet Pump - C type Three-Phase | Product code : | 14290275 | | |
| Frame | : W56C | Cooling method | : IC01 - ODP | | |
| Insulation class | : F | Mounting | : F-1 | | |
| Duty cycle | : Cont.(S1) | Rotation ¹ | : CCW | | |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line | | |
| Altitude | : 1000 m.a.s.l. | Approx. weight ³ | : 11.5 kg | | |
| Design | : A | Moment of inertia (J) | : 0.0014 kgm ² | | |
| Output [HP] | 1.5 | | | | |
| Poles | 2 | | | | |
| Frequency [Hz] | 60 | | | | |
| Rated voltage [V] | 575 | | | | |
| Rated current [A] | 1.69 | | | | |
| L. R. Amperes [A] | 14.9 | | | | |
| LRC [A] | 8.8x(Code L) | | | | |
| No load current [A] | 0.960 | | | | |
| Rated speed [RPM] | 3450 | | | | |
| Slip [%] | 4.17 | | | | |
| Rated torque [kgfm] | 0.316 | | | | |
| Locked rotor torque [%] | 400 | | | | |
| Breakdown torque [%] | 430 | | | | |
| Service factor | 1.15 | | | | |
| Temperature rise | 80 K | | | | |
| Locked rotor time | 23s (cold) 13s (hot) | | | | |
| Noise level ² | 62.0 dB(A) | | | | |
| Efficiency (%) | 25% | | | | |
| | 50% | 78.5 | | | |
| | 75% | 82.5 | | | |
| | 100% | 84.0 | | | |
| Power Factor | 25% | | | | |
| | 50% | 0.59 | | | |
| | 75% | 0.72 | | | |
| | 100% | 0.78 | | | |
| Bearing type | : <u>Drive end</u> 6203 2RS | <u>Non drive end</u> 6202 2RS | Foundation loads | | |
| Sealing | : Without | Without | Max. traction | : 38 kgf | |
| | Bearing Seal | Bearing Seal | Max. compression | : 49 kgf | |
| Lubrication interval | : - | - | | | |
| Lubricant amount | : - | - | | | |
| Lubricant type | : Mobil Polyrex EM | | | | |
| Notes | | | | | |
| <p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p> | | | <p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p> | | |
| Rev. | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 17/05/2022 | | | 1 / 2 | |

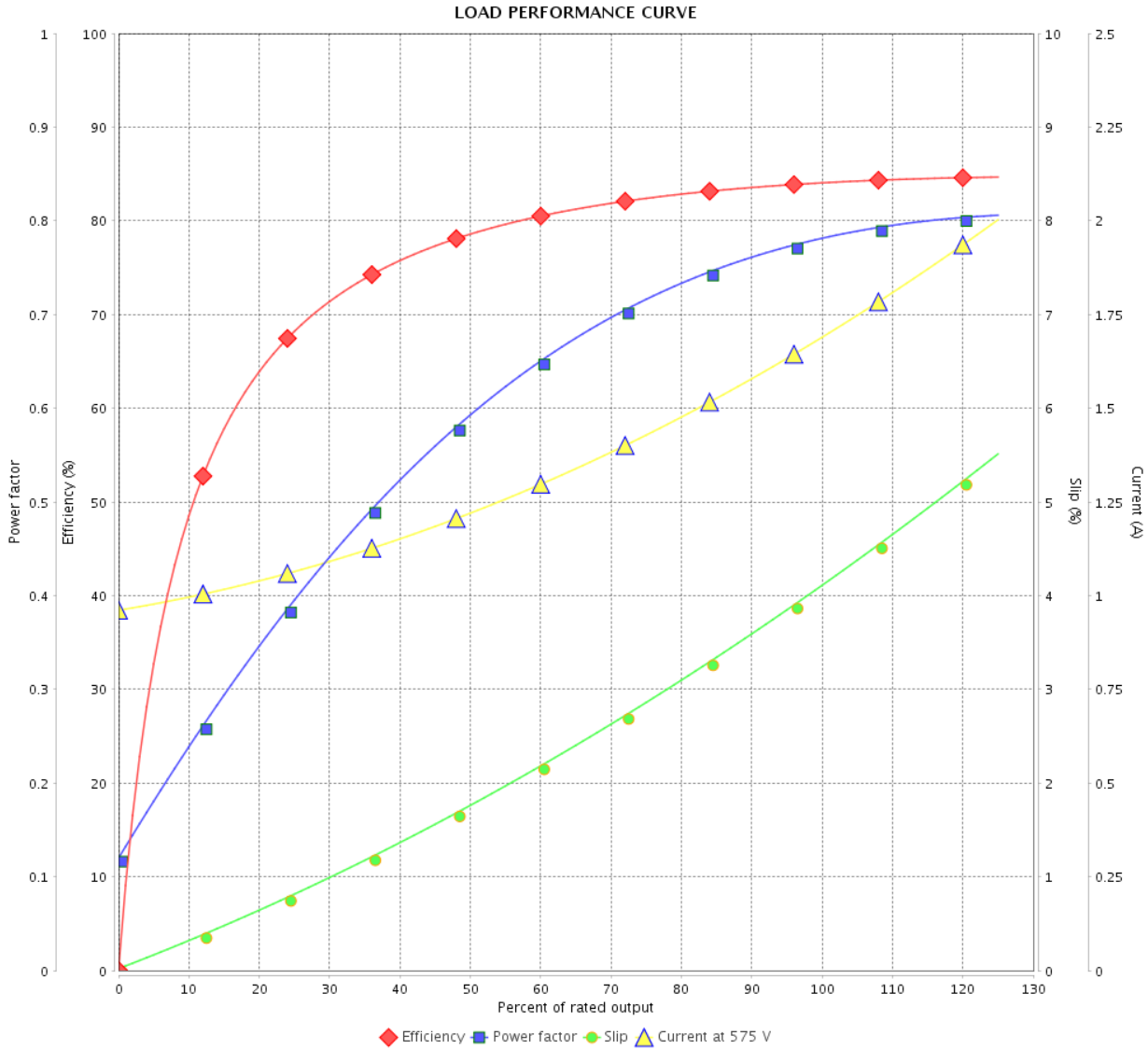
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - C type Three-Phase Product code : 14290275



Performance : 575 V 60 Hz 2P

Rated current : 1.69 A
 LRC : 8.8
 Rated torque : 0.316 kgfm
 Locked rotor torque : 400 %
 Breakdown torque : 430 %
 Rated speed : 3450 rpm

Moment of inertia (J) : 0.0014 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

| Rev. | Changes Summary | Performed | Checked | Date |
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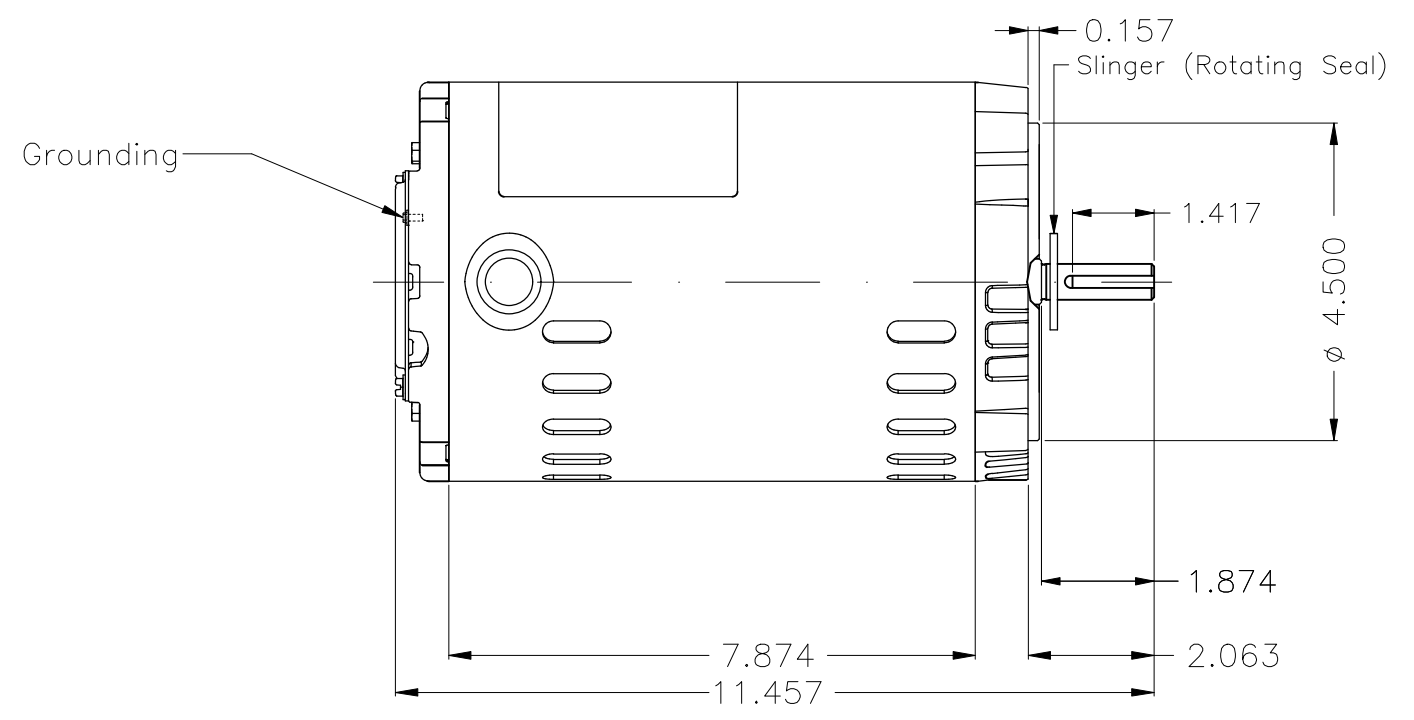
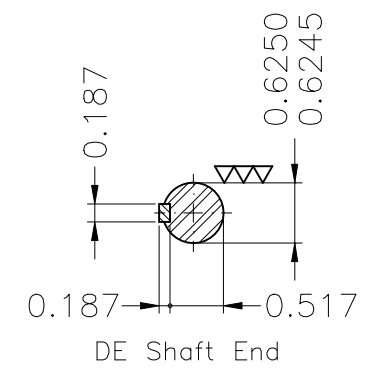
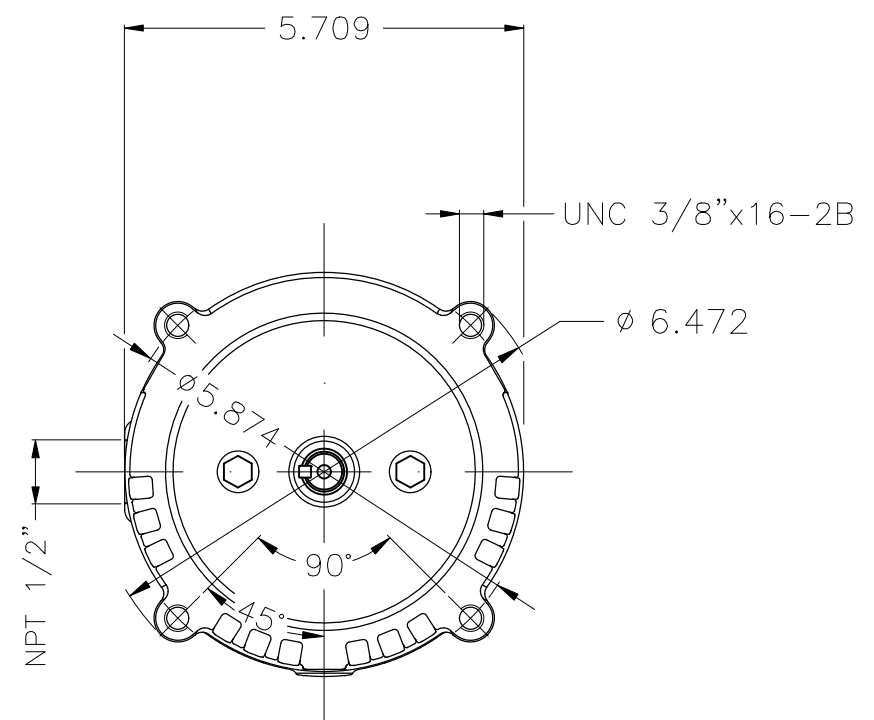
A

B

C

D

E



| | | | | | | | | |
|-------------------------------|------------|--|----------------|---------------------|-------------|----------|------|-----|
| Color Munsell N 1 matte black | | | | | | | | |
| Painting plan 207N | | | | | | | | |
| Mounting F-1/B14R(D) | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYBRISUSER 00 | | | | | | | | |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | EXECUTED | CHECKED | RELEASED | DATE | VER |
| EXECUTED | HYBRISUSER | THREE PH. MOTOR ROLLED STEEL JET PUMP KEYED PREM. EFF. | | EXECUTED | | | | |
| CHECKED | | FRAME W56C IP21 ODP | | | | | | |
| RELEASED | | | | | | | | |
| REL. DATE | | WMO | Jaragua do Sul | Product Engineering | SHEET 1 / 1 | | | |

1.5 HP 02 Poles 60 Hz

A

