

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | |
|--|---|--|---------|----------|
| Customer | : | | | |
| Product line | : Jet Pump - J type Premium Efficiency Three-Phase | Product code : 13957011 | | |
| Frame | : 56J | Cooling method : IC411 - TEFC | | |
| 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 : 16.3 kg | | |
| Protection degree | : IP55 | Moment of inertia (J) : 0.0052 kgm ² | | |
| Design | : B | | | |
| Output [HP] | | 1 | | |
| Poles | | 4 | | |
| Frequency [Hz] | | 60 | | |
| Rated voltage [V] | | 575 | | |
| Rated current [A] | | 1.18 | | |
| L. R. Amperes [A] | | 10.1 | | |
| LRC [A] | | 8.6x(Code M) | | |
| No load current [A] | | 0.712 | | |
| Rated speed [RPM] | | 1765 | | |
| Slip [%] | | 1.94 | | |
| Rated torque [kgfm] | | 0.411 | | |
| Locked rotor torque [%] | | 280 | | |
| Breakdown torque [%] | | 300 | | |
| Service factor | | 1.15 | | |
| Temperature rise | | 80 K | | |
| Locked rotor time | | 34s (cold) 19s (hot) | | |
| Noise level ² | | 52.0 dB(A) | | |
| Efficiency (%) | 25% | | | |
| | 50% | 82.5 | | |
| | 75% | 84.0 | | |
| | 100% | 85.5 | | |
| Power Factor | 25% | | | |
| | 50% | 0.52 | | |
| | 75% | 0.66 | | |
| | 100% | 0.75 | | |
| Bearing type | : <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS | Foundation loads | | |
| Sealing | : V'Ring Without Bearing Seal | Max. traction : 31 kgf Max. compression : 48 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 | Date |
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 11/05/2022 | | 1 / 2 | |

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

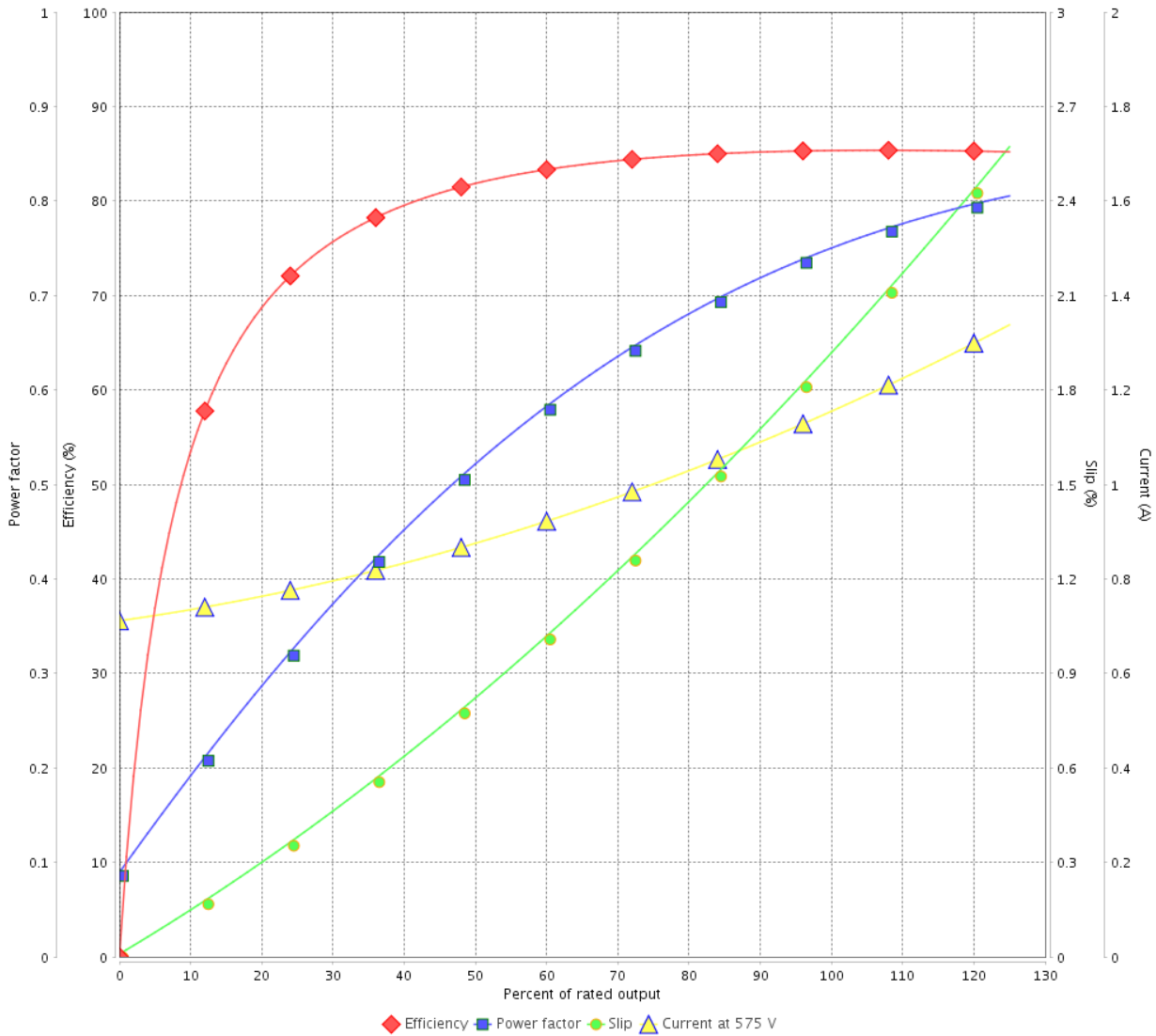


Customer :

Product line : Jet Pump - J type Premium
Efficiency Three-Phase

Product code : 13957011

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

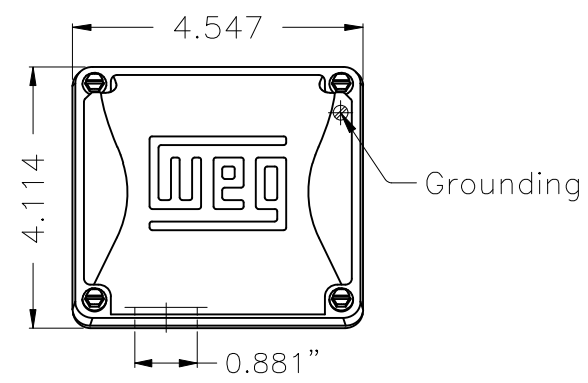
Rated current : 1.18 A
LRC : 8.6
Rated torque : 0.411 kgfm
Locked rotor torque : 280 %
Breakdown torque : 300 %
Rated speed : 1765 rpm

Moment of inertia (J) : 0.0052 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

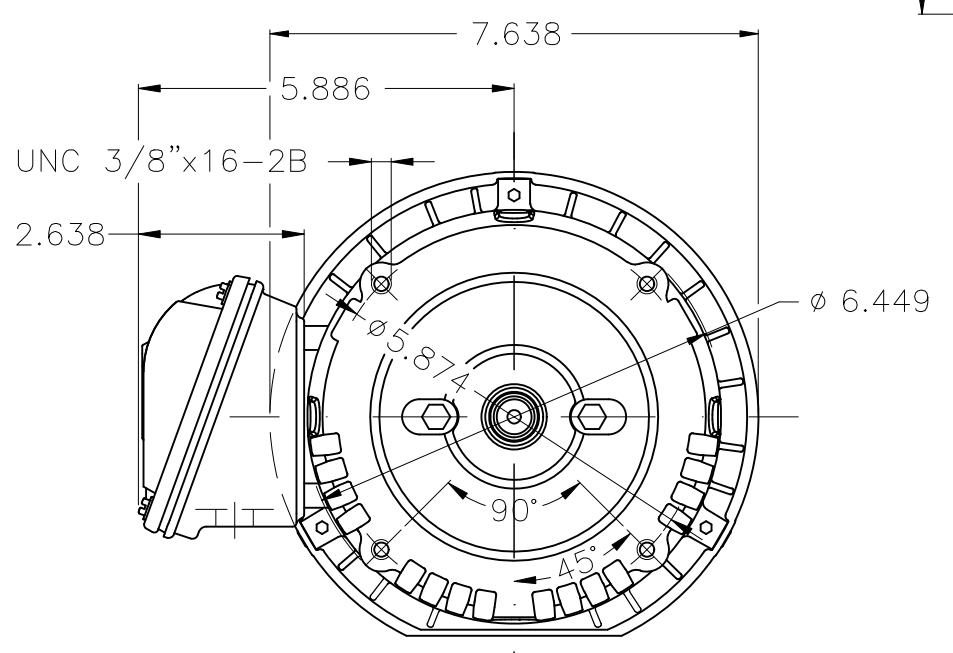
| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------------|----------|
| | | | | |
| Performed by | | | Page 2 / 2 | Revision |
| Checked by | | | | |
| Date | 11/05/2022 | | | |

1 2 3 4 5 6

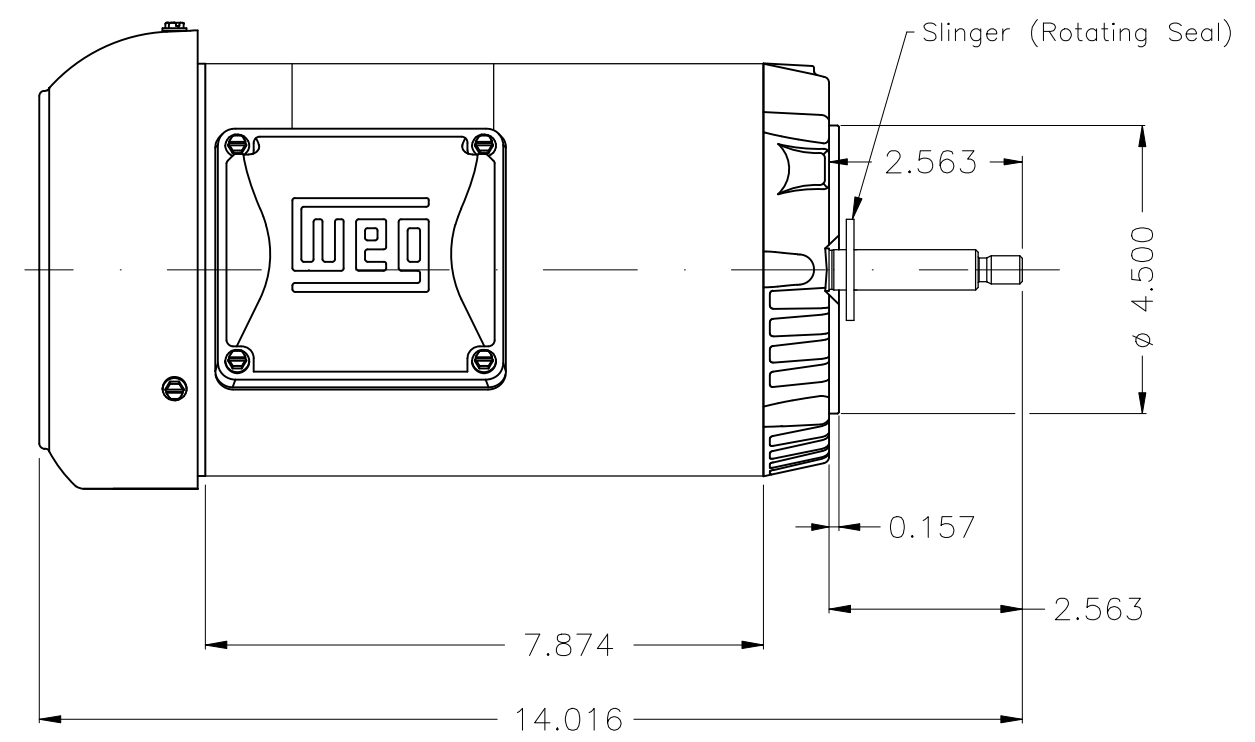
A



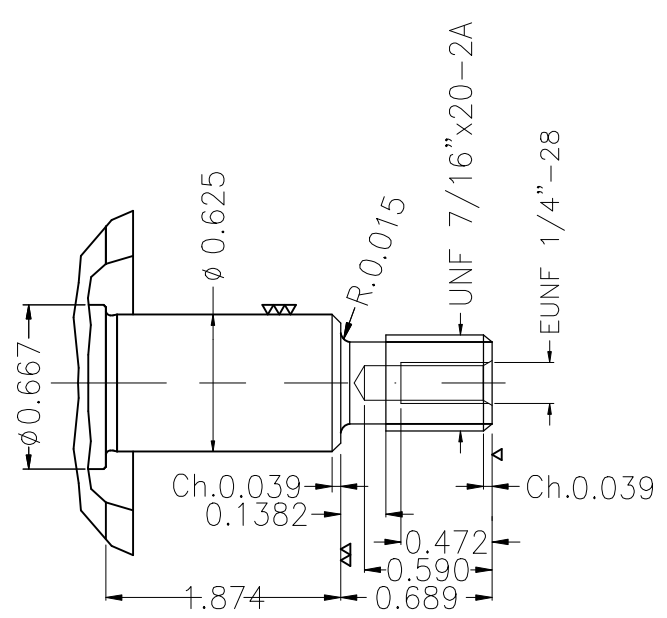
B



C



D



E

Fan cover - steel plate
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 THREADED PREL. SET | | | | | | | | | PREVIEW | | | | |
| CHECKED | | FRAME 56J IP55 TEFC | | | | | | | | | WDD 00 | | | | |
| RELEASED | | | | | | | | | | | SHEET 1 / 1 | | | | |
| REL. DATE | | WMO | Jaragua do Sul | Product Engineering | | | | | | XME A3 | | | | | |

1 HP 04 Poles 60 Hz

A

