

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

|   |   |   |         |          |
|---|---|---|---------|----------|
| Customer  | :   |   |         |          |
| Product line  | : Jet Pump - J type Premium<br>Efficiency Three-Phase     | Product code : 15942858   |         |          |
| Frame   | : W56J  | Cooling method : IC411 - TEFC   |         |          |
| Insulation class  | : F   | Mounting : W-6  |         |          |
| Duty cycle  | : Cont.(S1)   | Rotation <sup>1</sup> : CCW   |         |          |
| Ambient temperature   | : -20°C to +40°C  | Starting method : Direct On Line  |         |          |
| Altitude  | : 1000 m.a.s.l.   | Approx. weight <sup>3</sup> : 7.9 kg  |         |          |
| Protection degree   | : IP55  | Moment of inertia (J) : 0.0008 kgm <sup>2</sup>   |         |          |
| Output [HP]   |   | 0.5   |         |          |
| Poles   |   | 2   |         |          |
| Frequency [Hz]  |   | 60  |         |          |
| Rated voltage [V]   |   | 575   |         |          |
| Rated current [A]   |   | 0.627   |         |          |
| L. R. Amperes [A]   |   | 4.83  |         |          |
| LRC [A]   |   | 7.7x(Code L)  |         |          |
| No load current [A]   |   | 0.334   |         |          |
| Rated speed [RPM]   |   | 3435  |         |          |
| Slip [%]  |   | 4.58  |         |          |
| Rated torque [kgfm]   |   | 0.106   |         |          |
| Locked rotor torque [%]   |   | 330   |         |          |
| Breakdown torque [%]  |   | 360   |         |          |
| Service factor  |   | 1.15  |         |          |
| Temperature rise  |   | 80 K  |         |          |
| Locked rotor time   |   | 32s (cold) 18s (hot)  |         |          |
| Noise level <sup>2</sup>  |   | 65.0 dB(A)  |         |          |
| Efficiency (%)  | 25%   |   |         |          |
|   | 50%   | 68.0  |         |          |
|   | 75%   | 72.0  |         |          |
|   | 100%  | 74.0  |         |          |
| Power Factor  | 25%   |   |         |          |
|   | 50%   | 0.64  |         |          |
|   | 75%   | 0.75  |         |          |
|   | 100%  | 0.80  |         |          |
| Bearing type  | : <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS | Foundation loads  |         |          |
| Sealing   | : V'Ring V'Ring   | Max. traction : 8 kgf   |         |          |
| Lubrication interval  | : - -   | Max. compression : 16 kgf   |         |          |
| 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  | 16/05/2022  |   | 1 / 2   |          |

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

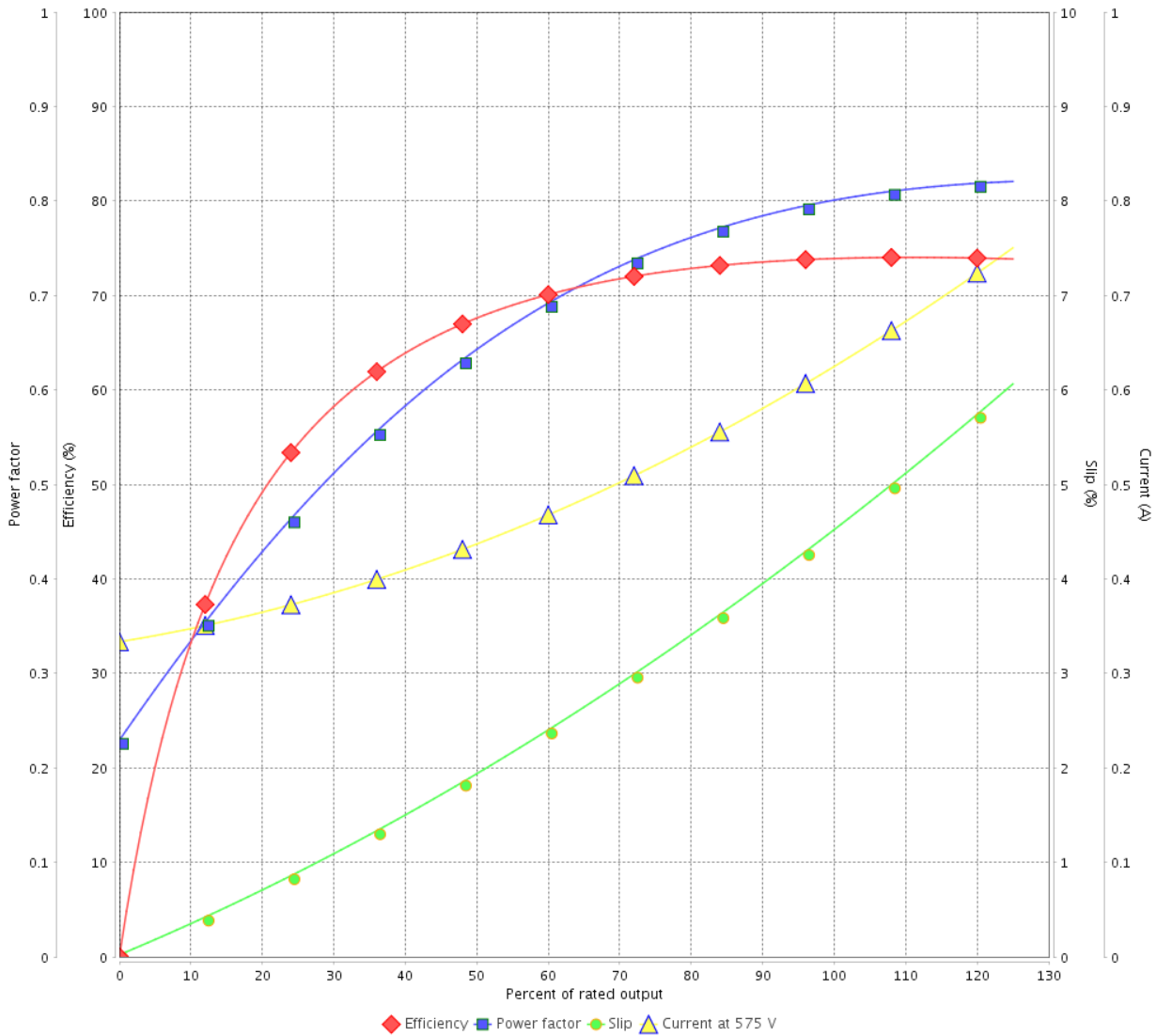


Customer :

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

Product code : 15942858

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current : 0.627 A  
LRC : 7.7  
Rated torque : 0.106 kgfm  
Locked rotor torque : 330 %  
Breakdown torque : 360 %  
Rated speed : 3435 rpm

Moment of inertia (J) : 0.0008 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
| Performed by |                 |           | Page    | Revision |
| Checked by   |                 |           |         |          |
| Date         |                 |           |         |          |

1 2 3 4 5 6

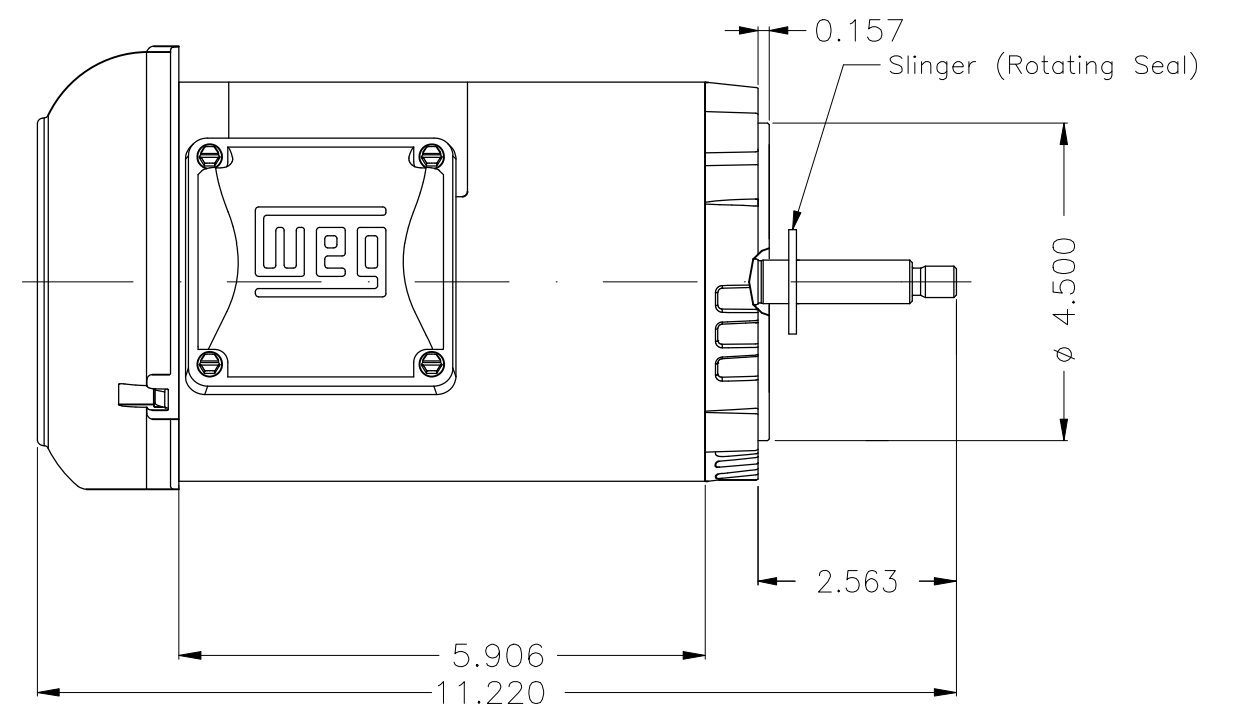
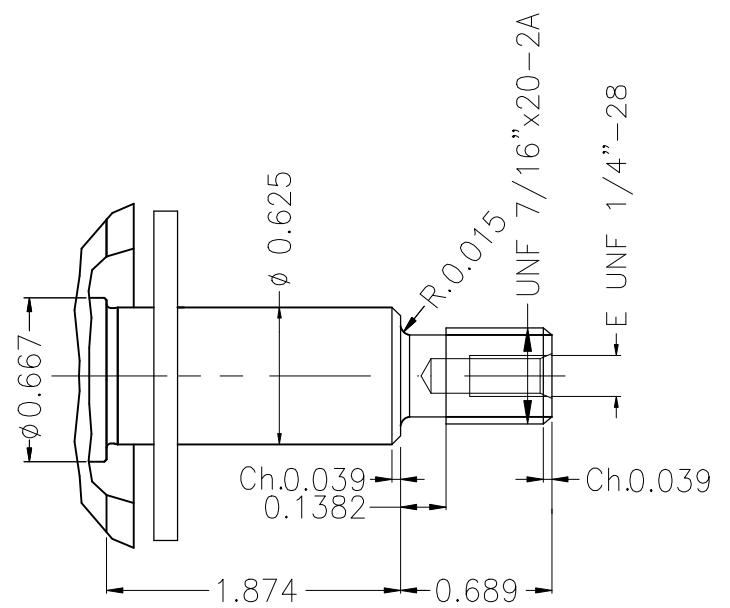
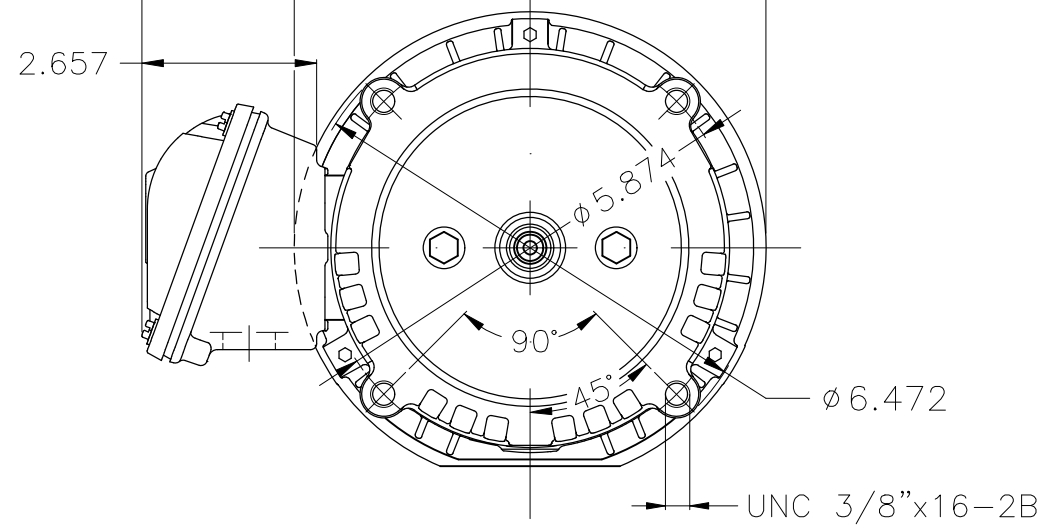
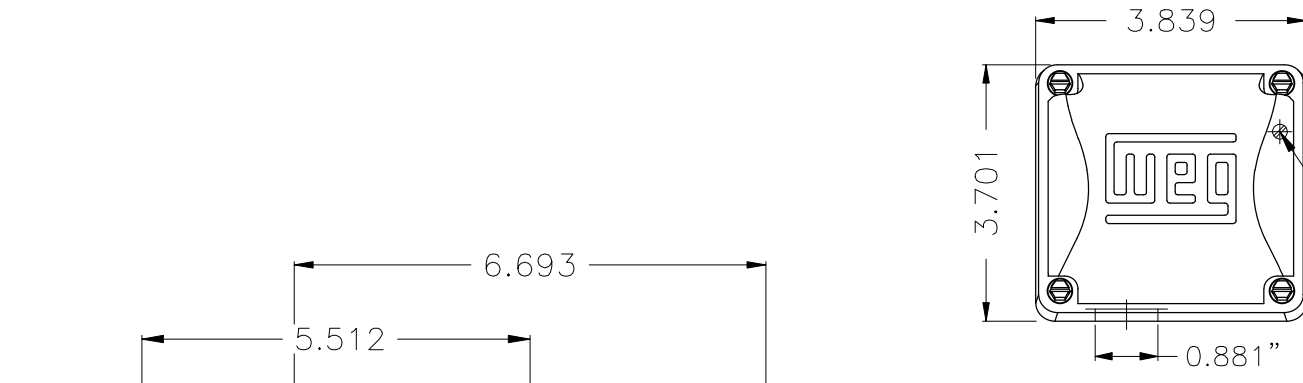
A

B

C

D

E



NDE sealing - V ring  
 Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting W-6/V18R(D)

| ECM       | LOC        | SUMMARY OF MODIFICATIONS                                 | EXECUTED            | CHECKED | RELEASED | DATE | VER |
|-----------|------------|--|---------------------|---------|----------|------|-----|
| EXECUTED  | HYBRISUSER | THREE PH. MOTOR ROLLED STEEL JET PUMP THREADED PREL. SET |                     |         |          |      |     |
| CHECKED   |            | FRAME W56J IP55 TEFC                                     |                     |         |          |      |     |
| RELEASED  |            |  |                     |         |          |      |     |
| REL. DATE | WMO        | Jaragua do Sul   | Product Engineering | WDD     | 00       |      |     |

0.5 HP 02 Poles 60 Hz

A SHEET 1 / 1

