

# 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  | : Drive end<br>6203 2RS                               | Non drive end<br>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

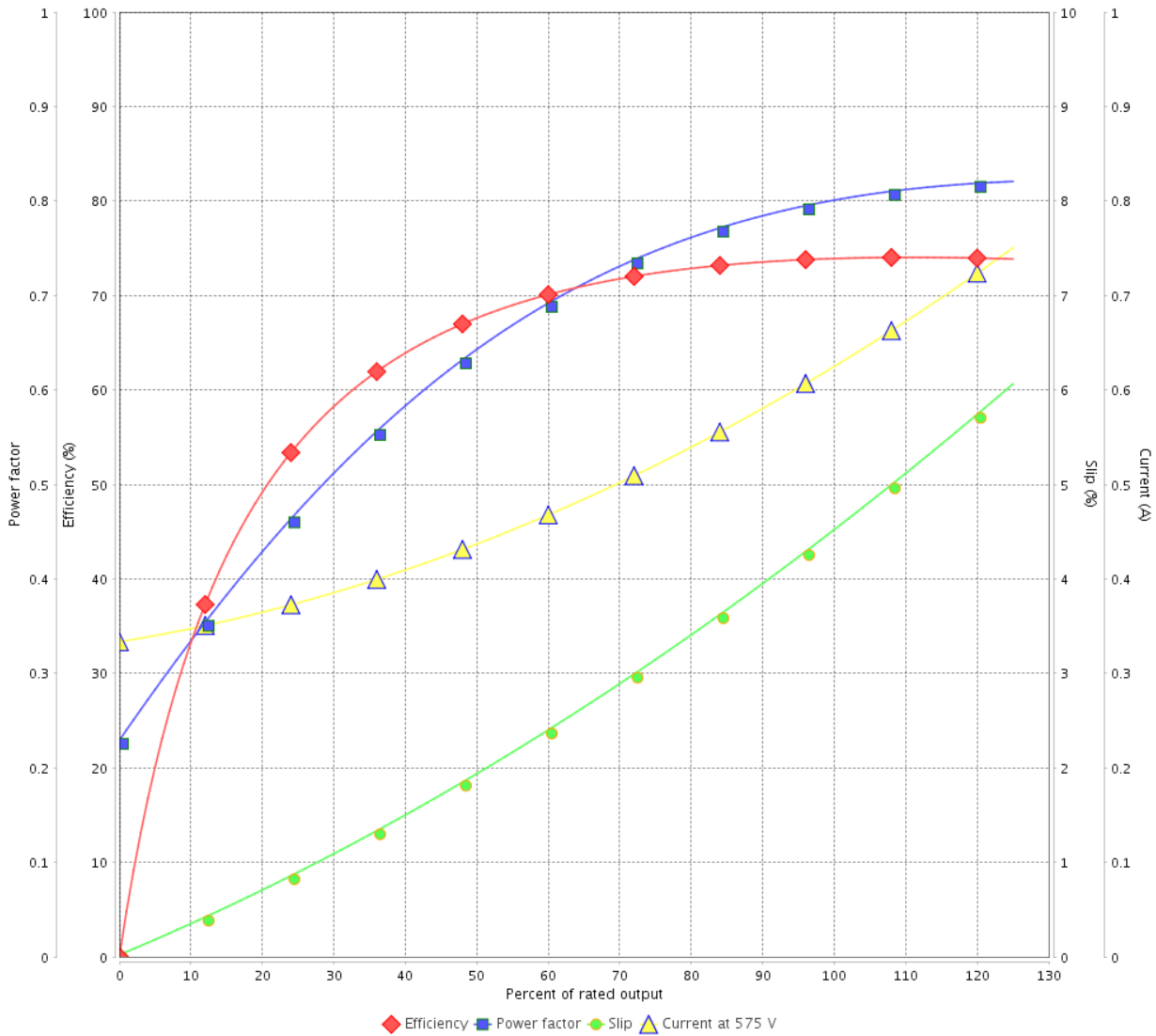


Customer :

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

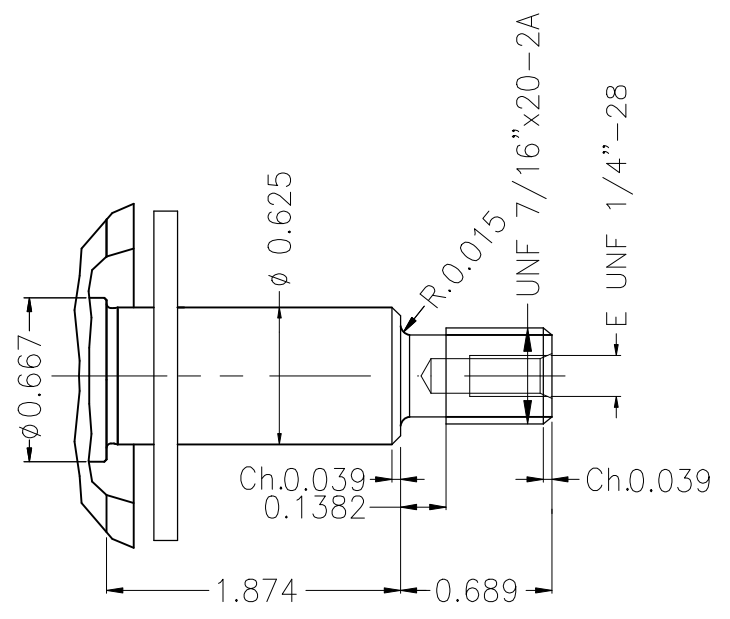
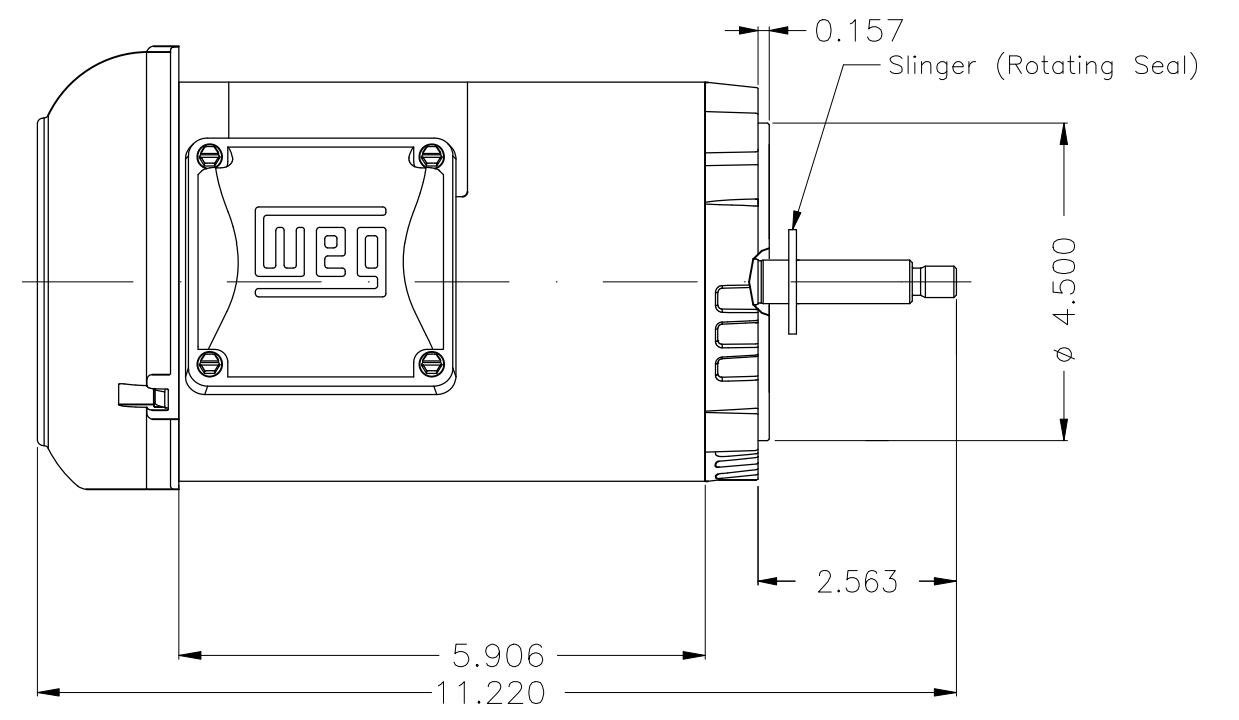
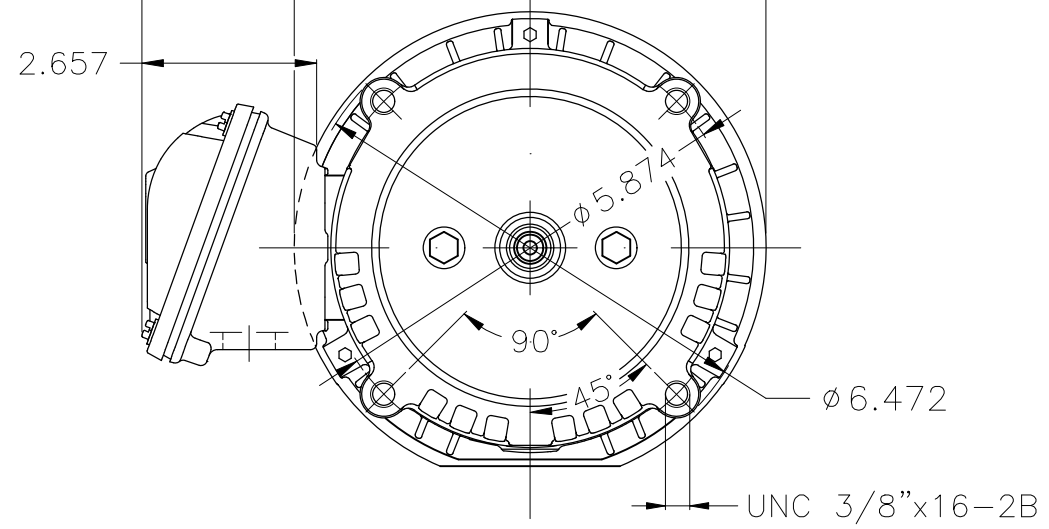
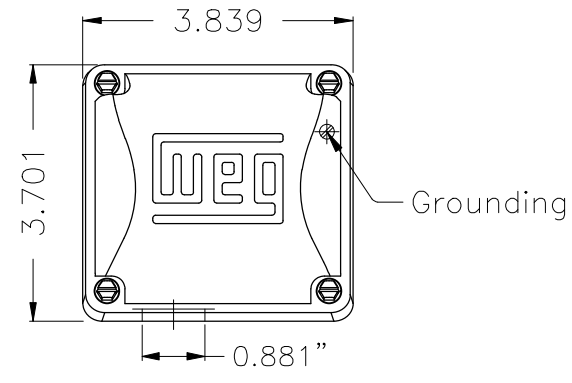
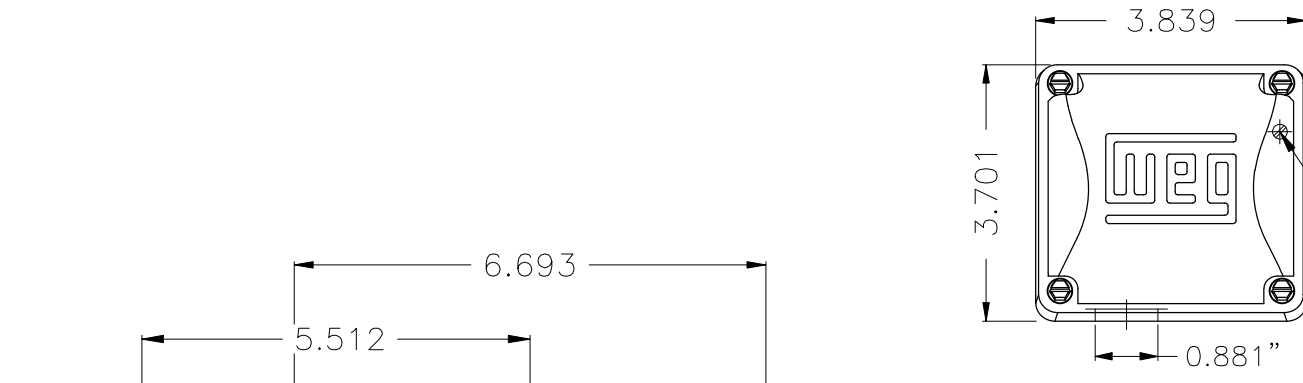
A

B

C

D

E

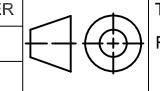


NDE sealing - V ring  
 Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting W-6/V18R(D)

| 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



PREVIEW



Dimensions in inches XME A3