

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|   |   |   |         |          |
|---|---|---|---------|----------|
| Customer  | :   |   |         |          |
| Product line  | : Standard Efficiency Three-Phase                       | Product code : 13502195   |         |          |
| Frame   | : 56H   | Cooling method : IC01 - ODP   |         |          |
| Insulation class  | : F   | Mounting : F-1  |         |          |
| Duty cycle  | : Cont.(S1)   | Rotation <sup>1</sup> : Both (CW and CCW)   |         |          |
| Ambient temperature   | : -20°C to +40°C  | Starting method : Direct On Line  |         |          |
| Altitude  | : 1000 m.a.s.l.   | Approx. weight <sup>3</sup> : 13.1 kg   |         |          |
| Design  | : A   | Moment of inertia (J) : 0.0038 kgm <sup>2</sup>   |         |          |
| Output [HP]   |   | 1.5   |         |          |
| Poles   |   | 4   |         |          |
| Frequency [Hz]  |   | 60  |         |          |
| Rated voltage [V]   |   | 575   |         |          |
| Rated current [A]   |   | 1.84  |         |          |
| L. R. Amperes [A]   |   | 12.7  |         |          |
| LRC [A]   |   | 6.9x(Code K)  |         |          |
| No load current [A]   |   | 1.28  |         |          |
| Rated speed [RPM]   |   | 1745  |         |          |
| Slip [%]  |   | 3.06  |         |          |
| Rated torque [kgfm]   |   | 0.624   |         |          |
| Locked rotor torque [%]   |   | 250   |         |          |
| Breakdown torque [%]  |   | 280   |         |          |
| Service factor  |   | 1.15  |         |          |
| Temperature rise  |   | 80 K  |         |          |
| Locked rotor time   |   | 18s (cold) 10s (hot)  |         |          |
| Noise level <sup>2</sup>  |   | 52.0 dB(A)  |         |          |
| Efficiency (%)  | 25%   |   |         |          |
|   | 50%   | 75.5  |         |          |
|   | 75%   | 78.5  |         |          |
|   | 100%  | 80.0  |         |          |
| Power Factor  | 25%   |   |         |          |
|   | 50%   | 0.51  |         |          |
|   | 75%   | 0.65  |         |          |
|   | 100%  | 0.75  |         |          |
| Bearing type  | : <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ | Foundation loads  |         |          |
| Sealing   | : Without Without<br>Bearing Seal Bearing Seal          | Max. traction : 49 kgf<br>Max. compression : 62 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   |          |

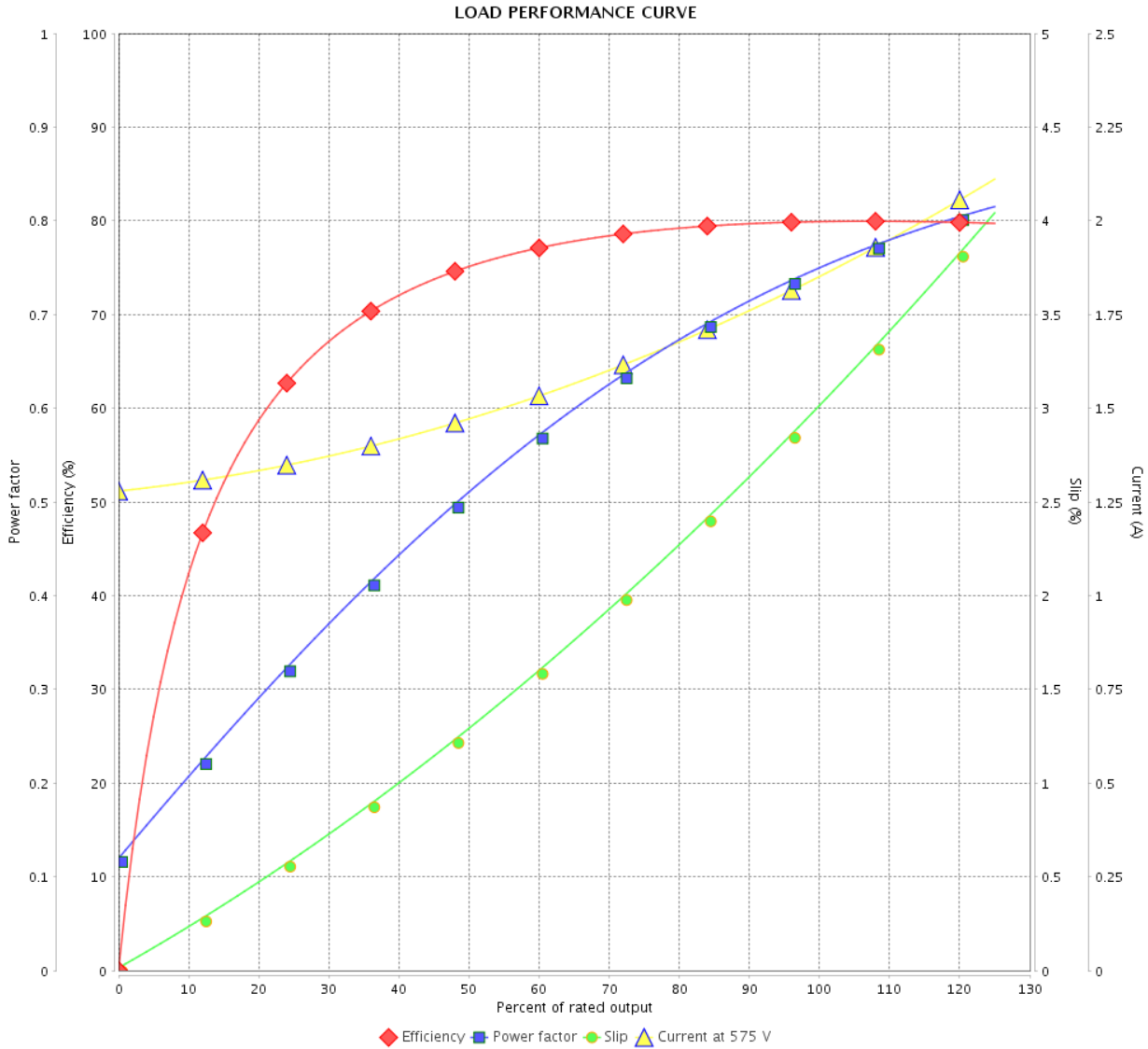
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502195



Performance : 575 V 60 Hz 4P

Rated current : 1.84 A  
 LRC : 6.9  
 Rated torque : 0.624 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 280 %  
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0038 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

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

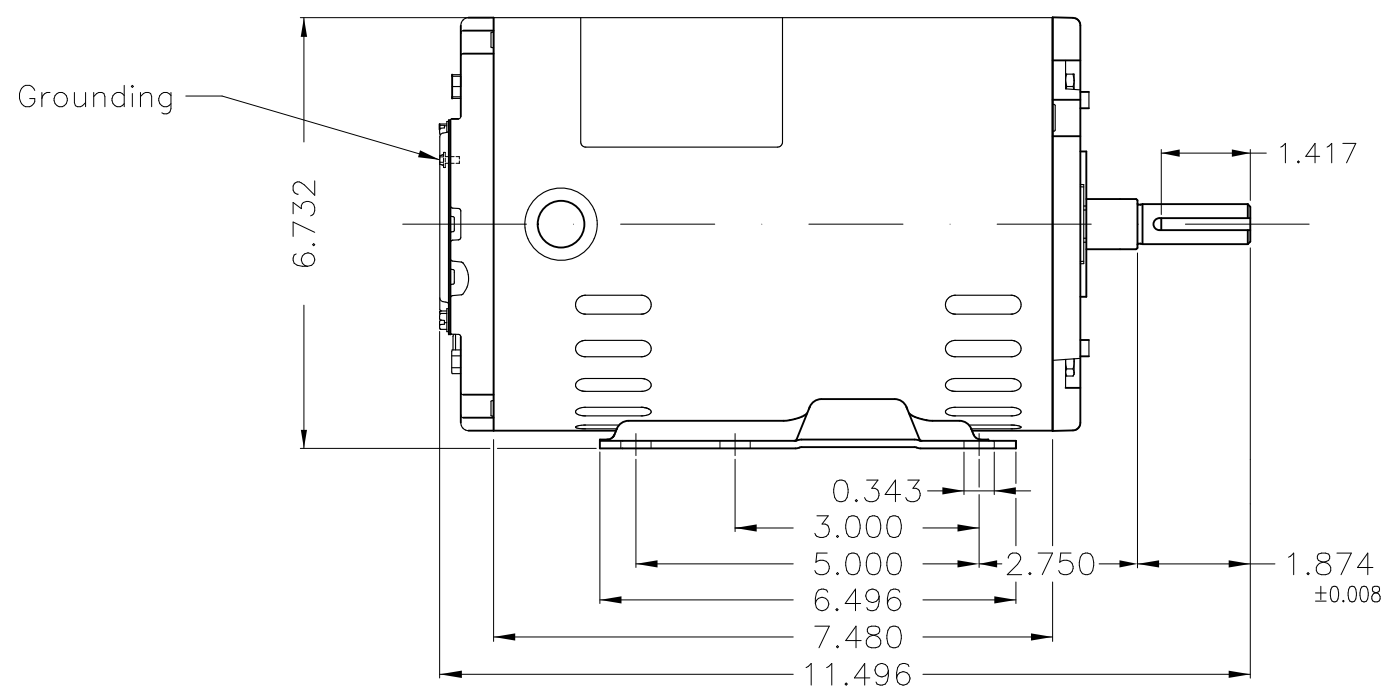
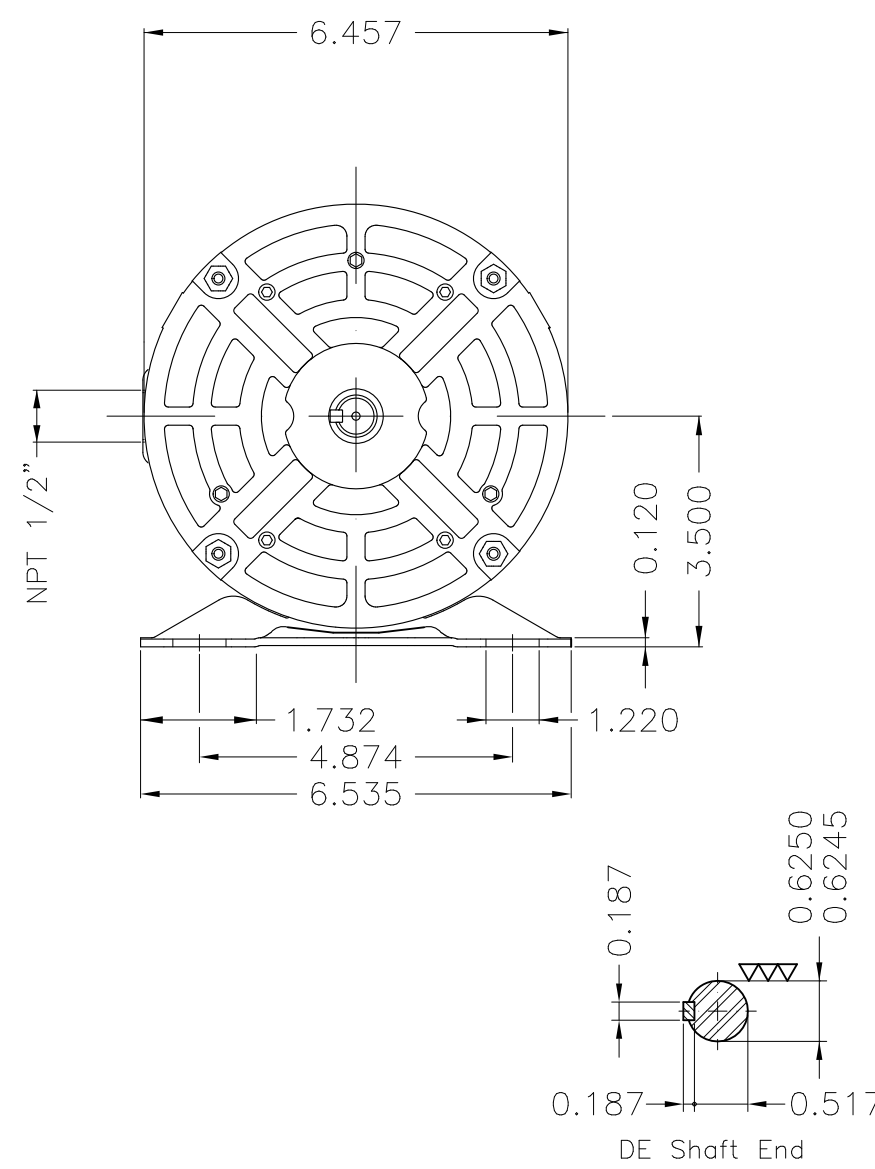
A

B

C

D

E



|                               |            |                              |                     |            |          |
|-------------------------------|------------|------------------------------|---------------------|------------|----------|
| Color Munsell N 1 matte black |            |                              |                     |            |          |
| Painting plan 207N            |            |                              |                     |            |          |
| Mounting F-1/B3R(D)           |            |                              |                     |            |          |
|                               |            |                              |                     |            |          |
|                               |            |                              |                     |            |          |
|                               |            |                              |                     | HYBRISUSER | 00       |
| ECM                           | LOC        | SUMMARY OF MODIFICATIONS     | EXECUTED            | CHECKED    | RELEASED |
| EXECUTED                      | HYBRISUSER | THREE PH. MOTOR ROLLED STEEL |                     |            |          |
| CHECKED                       |            | FRAME 56H IP21 ODP           |                     |            |          |
| RELEASED                      |            |                              |                     |            |          |
| REL. DATE                     | WMO        | Jaragua do Sul               | Product Engineering | PREVIEW    | WDD   00 |
|                               |            |                              | SHEET               | 1 / 1      |          |

1.5 HP 04 Poles 60 Hz

A

