# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : |

| | | | |
|---|---|---|---|
| Product line | : Single-Phase | Product code : | 13724247 |

| | | | |
|---|---|---|---|
| Frame | : 56H | Cooling method | : IC01 - ODP |
| Insulation class | : F | Mounting | : F-1 |
| Duty cycle | : Cont.(S1) | Rotation[1] | : Both (CW and CCW) |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line |
| Altitude | : 1000 m.a.s.l. | Approx. weight[3] | : 24.8 kg |
| Design | : L | Moment of inertia (J) | : 0.0068 kgm² |

| | | |
|---|---|---|
| Output [HP] | | 2 |
| Poles | | 4 |
| Frequency [Hz] | | 60 |
| Rated voltage [V] | | 115/208-230 |
| Rated current [A] | | 17.7/9.50-8.87 |
| L. R. Amperes [A] | | 115/61.7-57.7 |
| LRC [A] | | 6.5x(Code H) |
| No load current [A] | | 6.20/2.67-3.10 |
| Rated speed [RPM] | | 1730 |
| Slip [%] | | 3.89 |
| Rated torque [kgfm] | | 0.839 |
| Locked rotor torque [%] | | 290 |
| Breakdown torque [%] | | 225 |
| Service factor | | |
| Temperature rise | | 80 K |
| Locked rotor time | | 32s (cold) 18s (hot) |
| Noise level[2] | | 52.0 dB(A) |
| Efficiency (%) | 25% | |
| | 50% | 83.0 |
| | 75% | 84.0 |
| | 100% | 84.5 |
| Power Factor | 25% | |
| | 50% | 0.75 |
| | 75% | 0.83 |
| | 100% | 0.87 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6204 ZZ | 6202 ZZ |
| Sealing | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | Mobil Polyrex EM | |

Foundation loads

Max. traction : 47 kgf

Max. compression : 72 kgf

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 |
|---|---|---|---|---|
| | | | | |

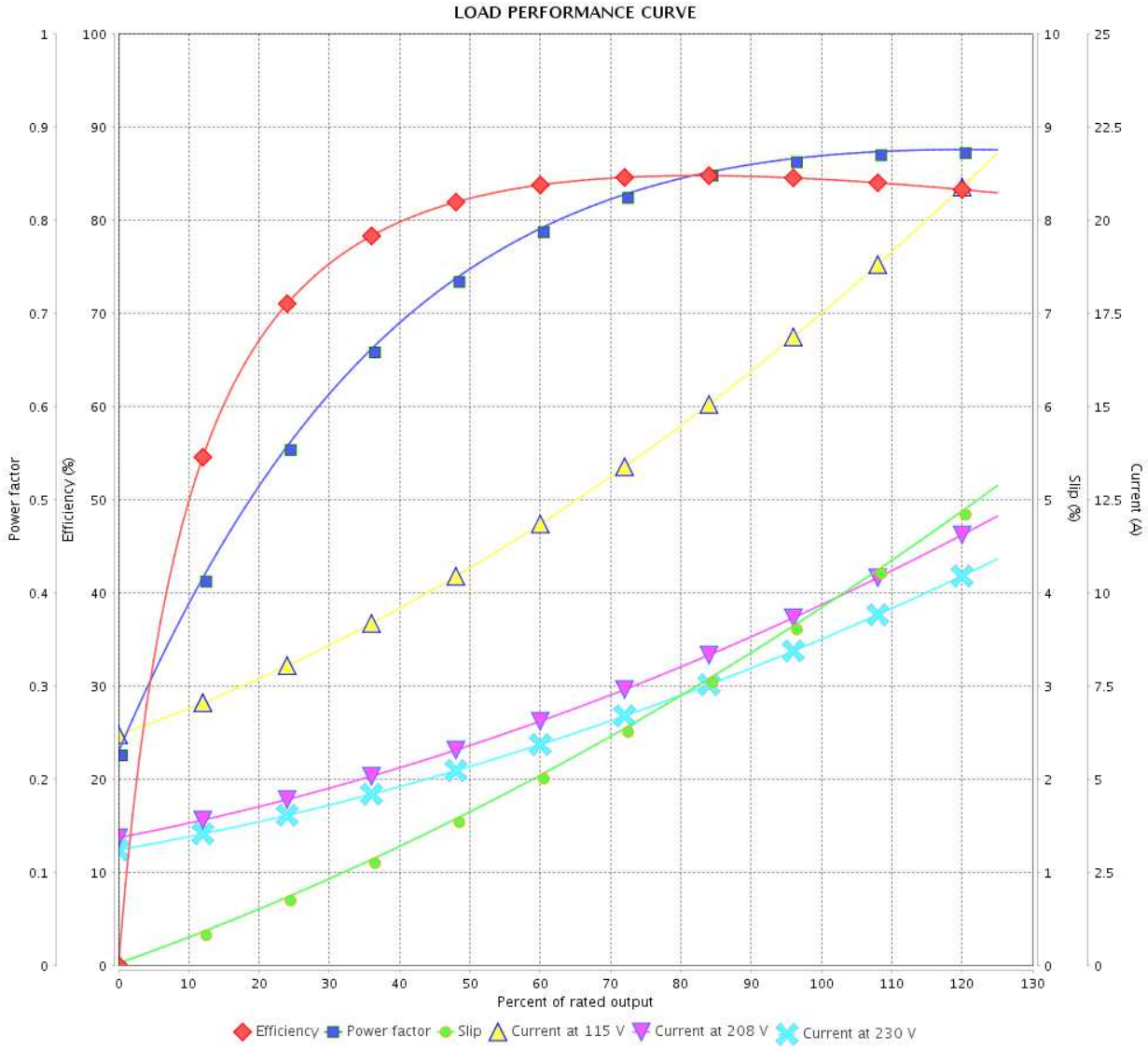
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| Date | 17/05/2022 | | 1 / 2 | |

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# LOAD PERFORMANCE CURVE

## Single Phase Induction Motor - Squirrel Cage

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|---|---|---|---|
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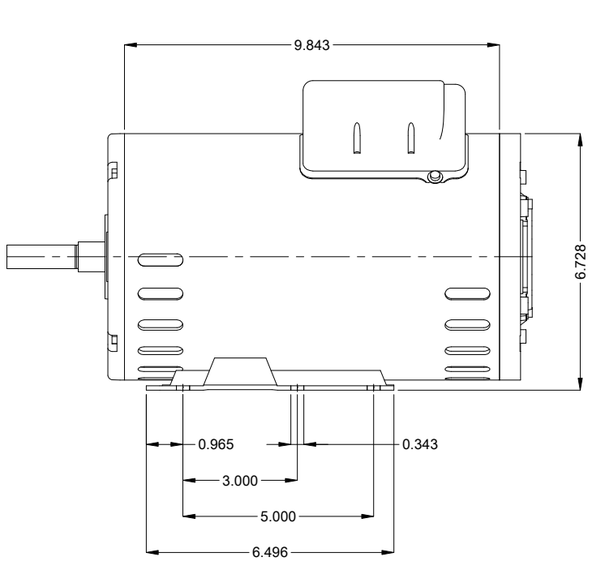


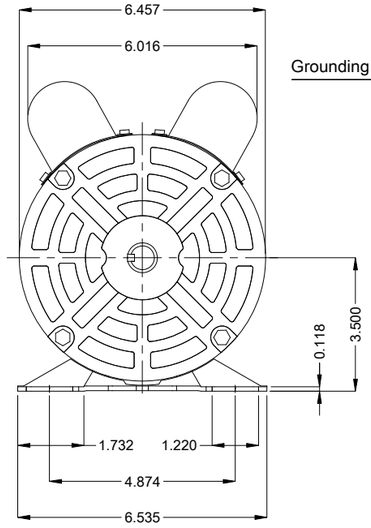

| | | | |
|---|---|---|---|
| Performance | : 115/208-230 V 60 Hz 4P | | |
| Rated current | : 17.7/9.50-8.87 A | Moment of inertia (J) | : 0.0068 kgm² |
| LRC | : 6.5 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.839 kgfm | Insulation class | : F |
| Locked rotor torque | : 290 % | Service factor | : |
| Breakdown torque | : 225 % | Temperature rise | : 80 K |
| Rated speed | : 1730 rpm | Design | : L |

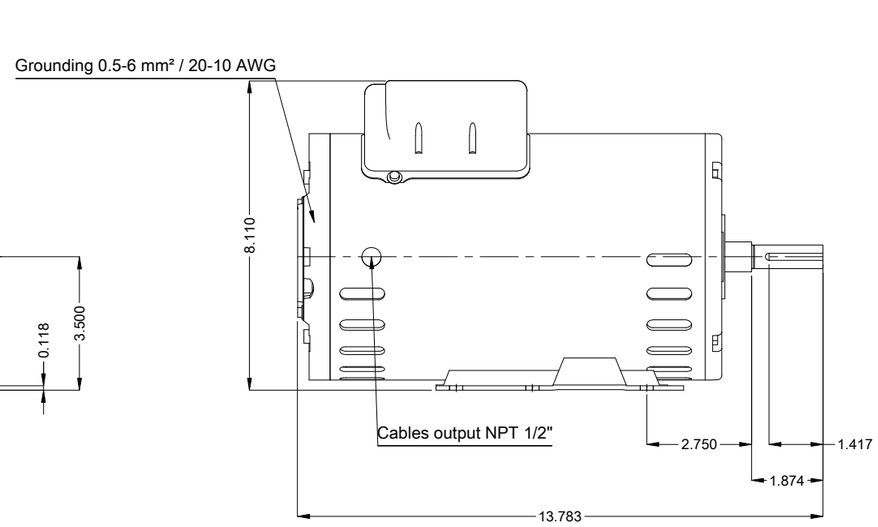
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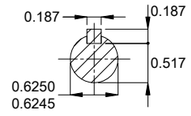



Reinforce the foot with 2 mig welding spots
Color Munsell N 1 matte black
Painting plan 207N
Mounting MARKET F-1/B3R(D)
Mounting F-1/B3R(D)

DE Shaft End




2 HP 04 Poles 60 Hz

A

Scale 1 : 4

| ECM | LOC | SUMMARY OF MODIFICATIONS | EXECUTED | CHECKED | RELEASED | DATE | VER |
|---|---|---|---|---|---|---|---|
| | | | HYBRISUSER | | | | 00 |

| | |
|---|---|
| EXECUTED | HYBRISUSER |
| CHECKED | |
| RELEASED | |
| REL. DATE | |

SINGLE PH. MOTOR ROLLED STEEL PREM. EFF.
FRAME 56H IP21 ODP

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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