

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Compressor Duty Single-Phase Product code : 10021789

| | | | |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame | : G56H | Locked rotor time | : 10s (cold) 6s (hot) |
| Output | : 5 HP (3.7 kW) | Temperature rise | : 105 K |
| Poles | : 2 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 208-230 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 21.0-19.1 A | Protection degree | : IP21 |
| L. R. Amperes | : 137-124 A | Cooling method | : IC01 - ODP |
| LRC | : 6.5x(Code G) | Mounting | : F-1 |
| No load current | : 3.19-3.70 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 3455 rpm | Starting method | : Direct On Line |
| Slip | : 4.03 % | Approx. weight ³ | : 21.9 kg |
| Rated torque | : 1.05 kgfm | | |
| Locked rotor torque | : 220 % | | |
| Breakdown torque | : 200 % | | |
| Insulation class | : F | | |
| Service factor | : 1.00 | | |
| Moment of inertia (J) | : 0.0030 kgm ² | | |

| | | | | |
|----------------|------|------|------|---------------------------|
| Output | 50% | 75% | 100% | Foundation loads |
| Efficiency (%) | 83.0 | 85.0 | 85.0 | Max. traction : 56 kgf |
| Power Factor | 0.99 | 0.99 | 0.99 | Max. compression : 78 kgf |

| | Drive end | Non drive end |
|----------------------|------------------------|------------------------|
| Bearing type | : 6204 ZZ | : 6203 ZZ |
| Sealing | : Without Bearing Seal | : Without Bearing Seal |
| Lubrication interval | : - | : - |
| Lubricant amount | : - | : - |
| Lubricant type | : Mobil Polyrex EM | |

Notes

This revision replaces and cancel the previous one, which must be eliminated.

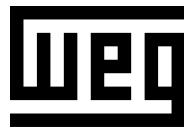
- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

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 | | | | |
| Date | 14/11/2025 | | | |
| | | | Page | Revision |
| | | | 1 / 2 | |

LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage



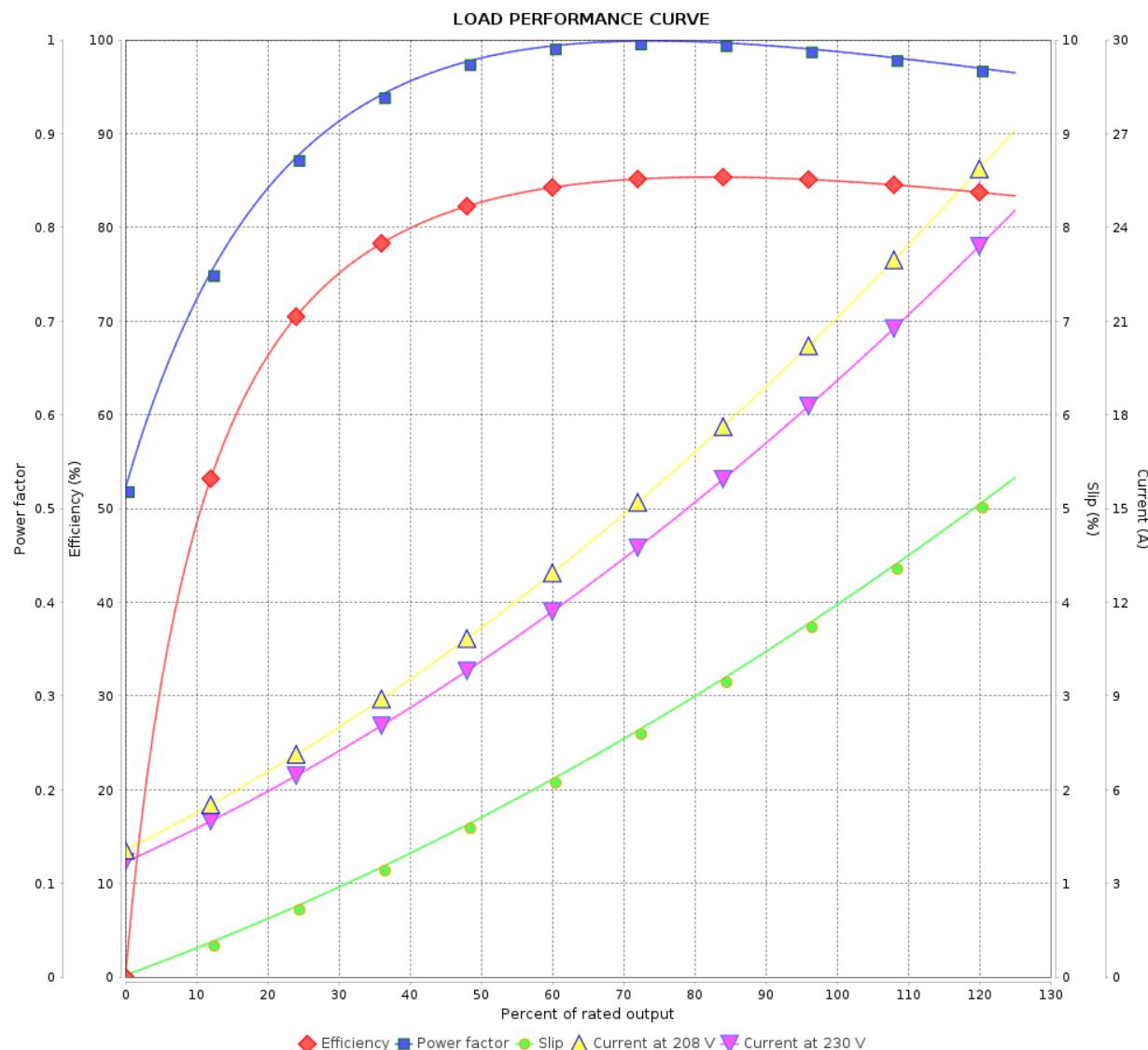
Customer :

Product line

: Compressor Duty Single-Phase

Product code :

10021789



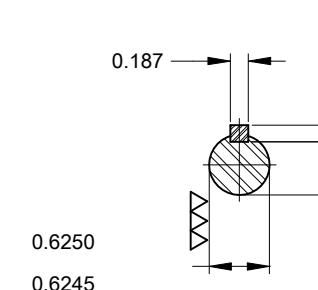
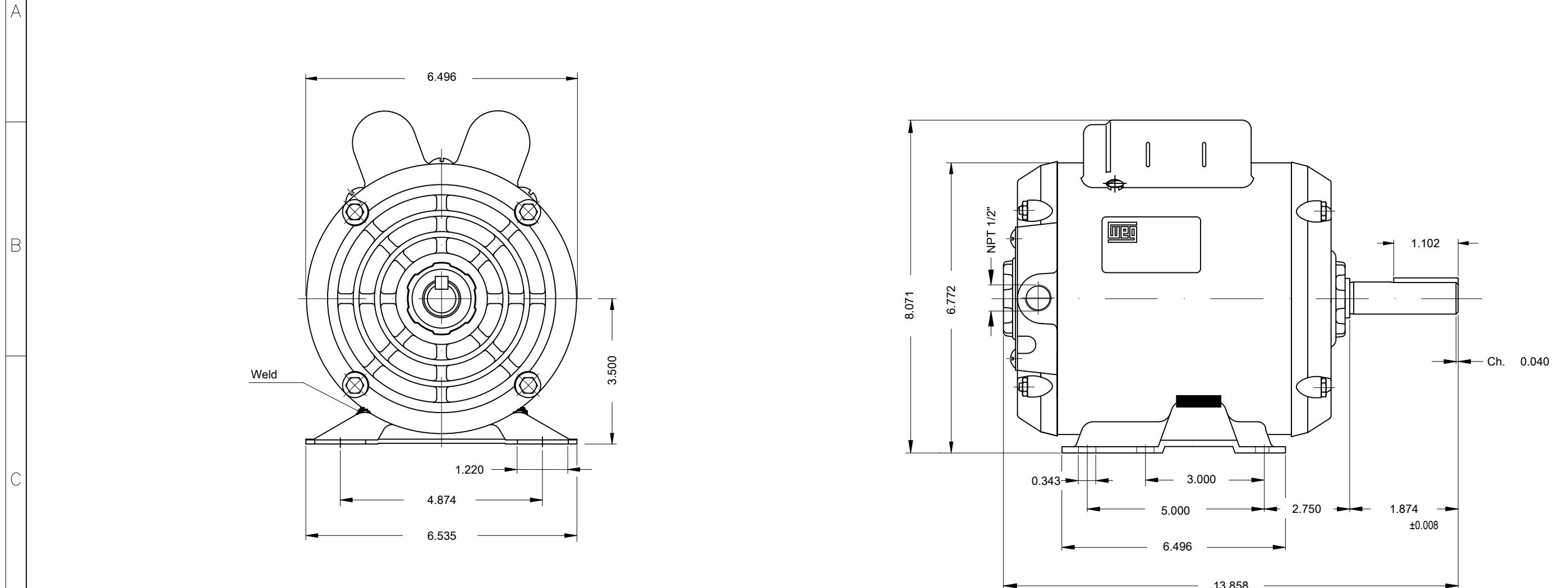
Performance

: 208-230 V 60 Hz 2P

Rated current : 21.0-19.1 A
 LRC : 6.5
 Rated torque : 1.05 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 200 %
 Rated speed : 3455 rpm

Moment of inertia (J) : 0.0030 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 105 K

| Rev. | Changes Summary | | Performed | Checked | Date |
|--------------|-----------------|--|-----------|----------|------|
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| Checked by | | | | | |
| Date | 14/11/2025 | | 2 / 2 | | |



Color Munsell N 1 matte black

Painting plan 207N

Mounting B3R(D)

| | | | | | | | |
|-------------|------------|---|---|---------------------|----------|---|----------|
| | | | | | | | |
| | | | | HYBRISUSER | | | 00 |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | | EXECUTED | CHECKED | RELEASED |
| EXECUTED | HYBRISUSER |  | SINGLE PH. MOTOR COMPRESSOR DUTY FRAME G56H IP21 ODP | | | PREVIEW | |
| CHECKED | | | | | | WDD | 00 |
| RELEASED | | | | | |  | |
| A REL. DATE | | WMO | Jaragua do Sul | Product Engineering | SHEET | 1 | / 1 |