

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase Product code : 14266924

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : 145HP | Locked rotor time | : 25s (cold) 14s (hot) |
| Output | : 1.5 HP (1.1 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 208 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 4.36 A | Protection degree | : IP55 |
| L. R. Amperes | : 36.6 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.4x(Code L) | Mounting | : W-6 |
| No load current | : 1.90 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 1755 rpm | Noise level ² | : 51.0 dB(A) |
| Slip | : 2.50 % | Starting method | : Direct On Line |
| Rated torque | : 0.620 kgfm | Approx. weight ³ | : 25.9 kg |
| Locked rotor torque | : 290 % | | |
| Breakdown torque | : 350 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0060 kgm ² | | |
| Design | : B | | |

| | | | | |
|----------------|------|------|------|---|
| Output | 50% | 75% | 100% | Foundation loads Max. traction Max. compression |
| Efficiency (%) | 82.5 | 85.5 | 86.5 | |
| Power Factor | 0.60 | 0.70 | 0.79 | |

Losses at normative operating points (speed;torque), in percentage of rated output power

| | | | | | | |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| P1 (0,9;1,0) | P2 (0,5;1,0) | P3 (0,25;1,0) | P4 (0,9;0,5) | P5 (0,5;0,5) | P6 (0,5;0,25) | P7 (0,25;0,25) |
| 14.6 | 12.1 | 12.2 | 8.2 | 5.7 | 4.3 | 3.2 |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6307 ZZ | 6204 ZZ |
| Sealing | : | V'Ring | V'Ring |
| 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 | | | | Page | Revision |
| Date | 28/10/2024 | | | 1 / 2 | |

LOAD PERFORMANCE CURVE

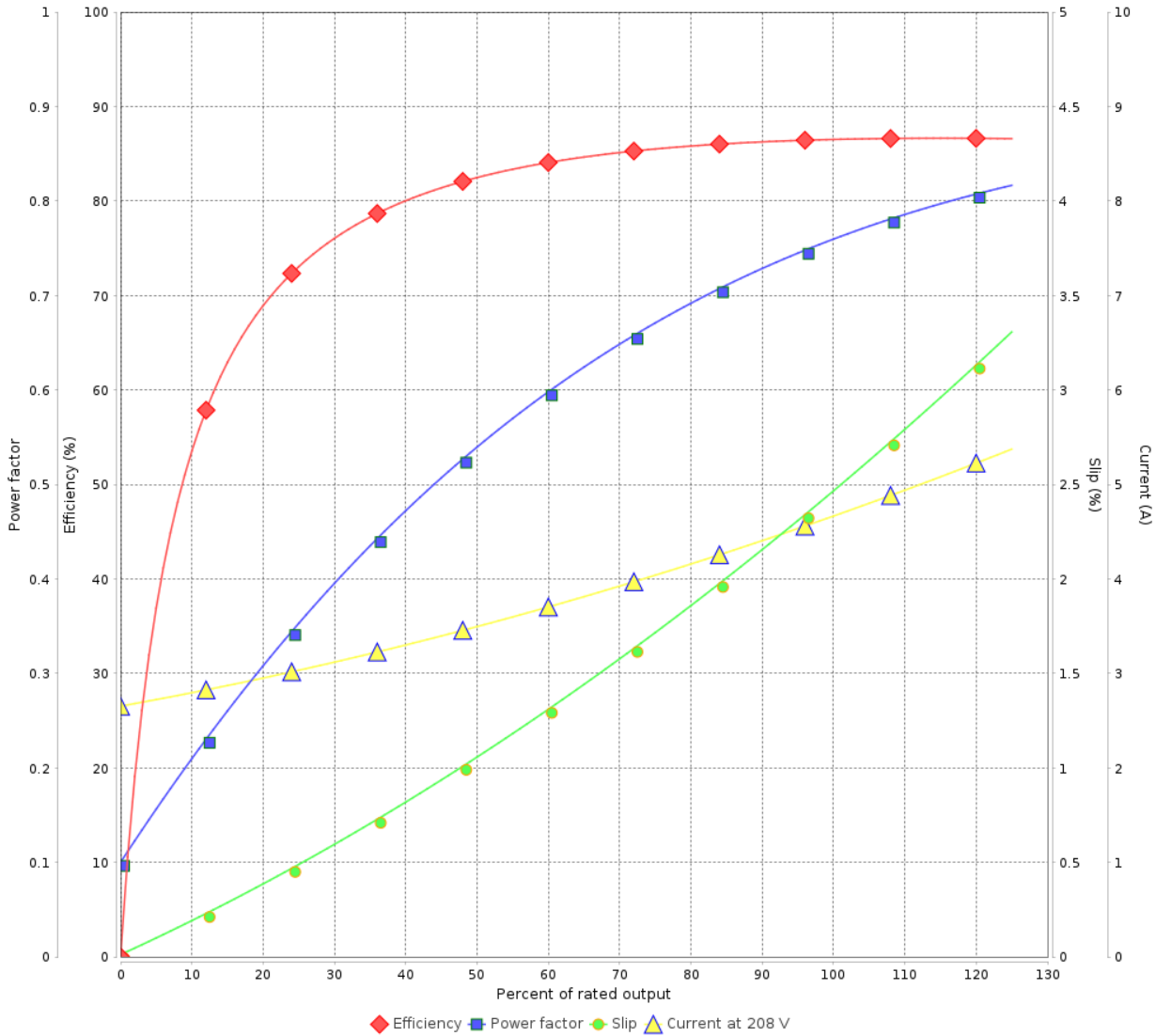
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 Efficiency Three-Phase

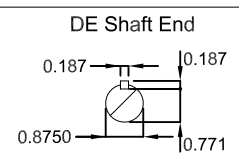
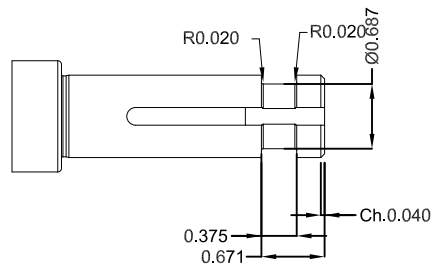
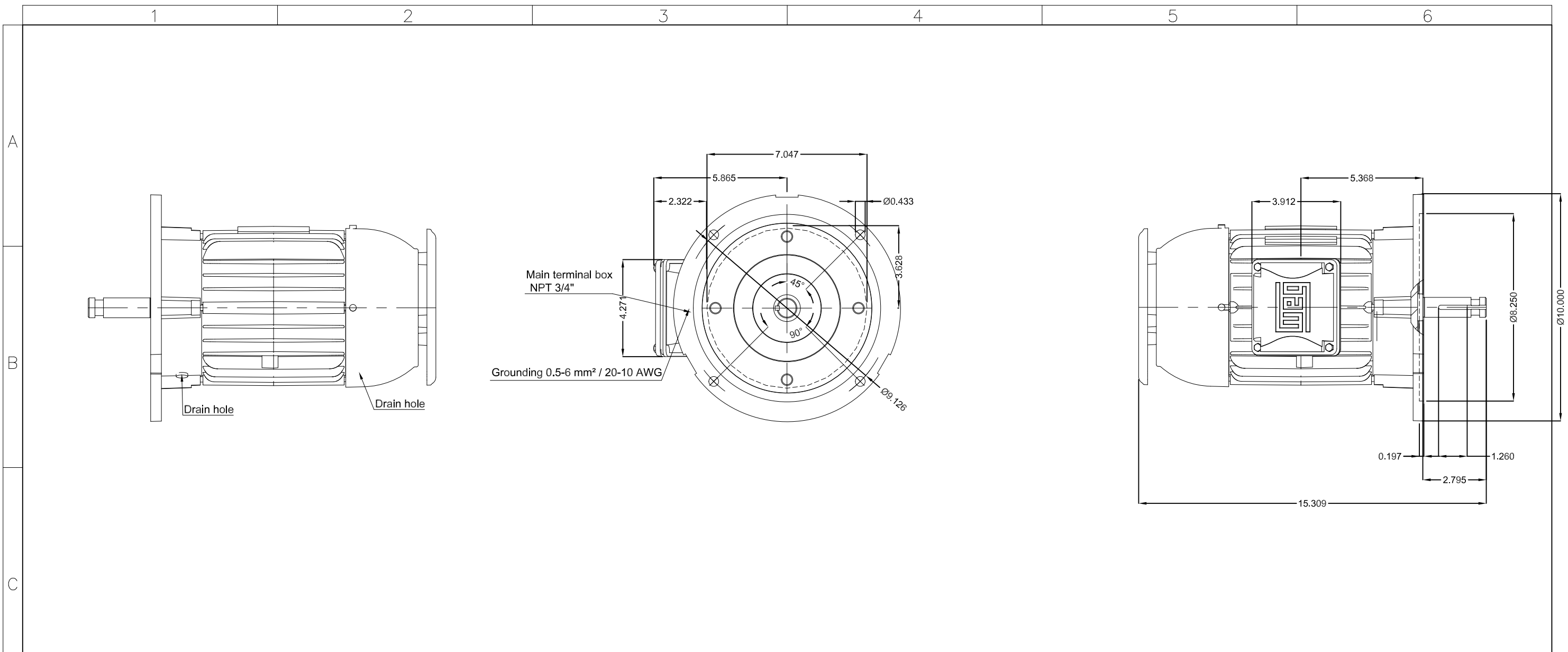
LOAD PERFORMANCE CURVE



Performance : 208 V 60 Hz 4P

| | | | |
|---------------------|--------------|-----------------------|---------------------------|
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| LRC | : 8.4 | Duty cycle | : Cont.(S1) |
| Rated torque | : 0.620 kgfm | Insulation class | : F |
| Locked rotor torque | : 290 % | Service factor | : 1.25 |
| Breakdown torque | : 350 % | Temperature rise | : 80 K |
| Rated speed | : 1755 rpm | Design | : B |

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Color RAL 5009
 Painting plan 207A
 Mounting NEMA W-6
 Mounting V1

| | | | | | | | | | | | |
|-----------------------|------------|---|--|--|--|--|----------|---------|----------|------|-----|
| 1.5 HP 04 Poles 60 Hz | | | | | | | | | | A | |
| HYBRISUSER | | | | | | | | | | 00 | |
| ECM | LOC | SUMMARY OF MODIFICATIONS | | | | | EXECUTED | CHECKED | RELEASED | DATE | VER |
| EXECUTED | HYBRISUSER | THREE PH. MOTOR W22 P. BASE NEMA PREM. EFF. | | | | | PREVIEW | | | | |
| CHECKED | | FRAME 145HP IP55 TEFC | | | | | WDD 00 | | | | |
| RELEASED | | | | | | | SHEET / | | | | |
| REL. DATE | | | | | | | | | | | |