

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14433680

| | | | |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame | : 213/5T | Locked rotor time | : 32s (cold) 18s (hot) |
| Output | : 10 HP (7.5 kW) | Temperature rise | : 80 K |
| Poles | : 2 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 9.28 A | Protection degree | : IP55 |
| L. R. Amperes | : 66.8 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.2x(Code H) | Mounting | : F-1 |
| No load current | : 2.88 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 3530 rpm | Noise level ² | : 68.0 dB(A) |
| Slip | : 1.94 % | Starting method | : Direct On Line |
| Rated torque | : 2.06 kgfm | Approx. weight ³ | : 84.1 kg |
| Locked rotor torque | : 220 % | | |
| Breakdown torque | : 290 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.0268 kgm ² | | |
| Design | : B | | |

| | | | | | |
|----------------|------|------|------|------------------|-----------|
| Output | 50% | 75% | 100% | Foundation loads | |
| Efficiency (%) | 89.5 | 90.2 | 90.2 | Max. traction | : 68 kgf |
| Power Factor | 0.79 | 0.87 | 0.90 | Max. compression | : 152 kgf |

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) |
| 10.7 | 8.7 | 7.8 | 5.2 | 3.3 | 2.1 | 1.3 |

| | | | |
|----------------------|---|------------------|----------------------|
| | | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type | : | 6308 ZZ | 6207 ZZ |
| Sealing | : | V'Ring | Lip 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.

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|--------------|-----------------|-----------|---------|----------|
| Rev. | Changes Summary | Performed | Checked | Date |
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 28/10/2024 | | 1 / 3 | |

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Brake information

Voltage: 525-575 V
Brake Torque: 8.15 kgfm

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|----------|
| Performed by | | | | |
| Checked by | | | Page | Revision |
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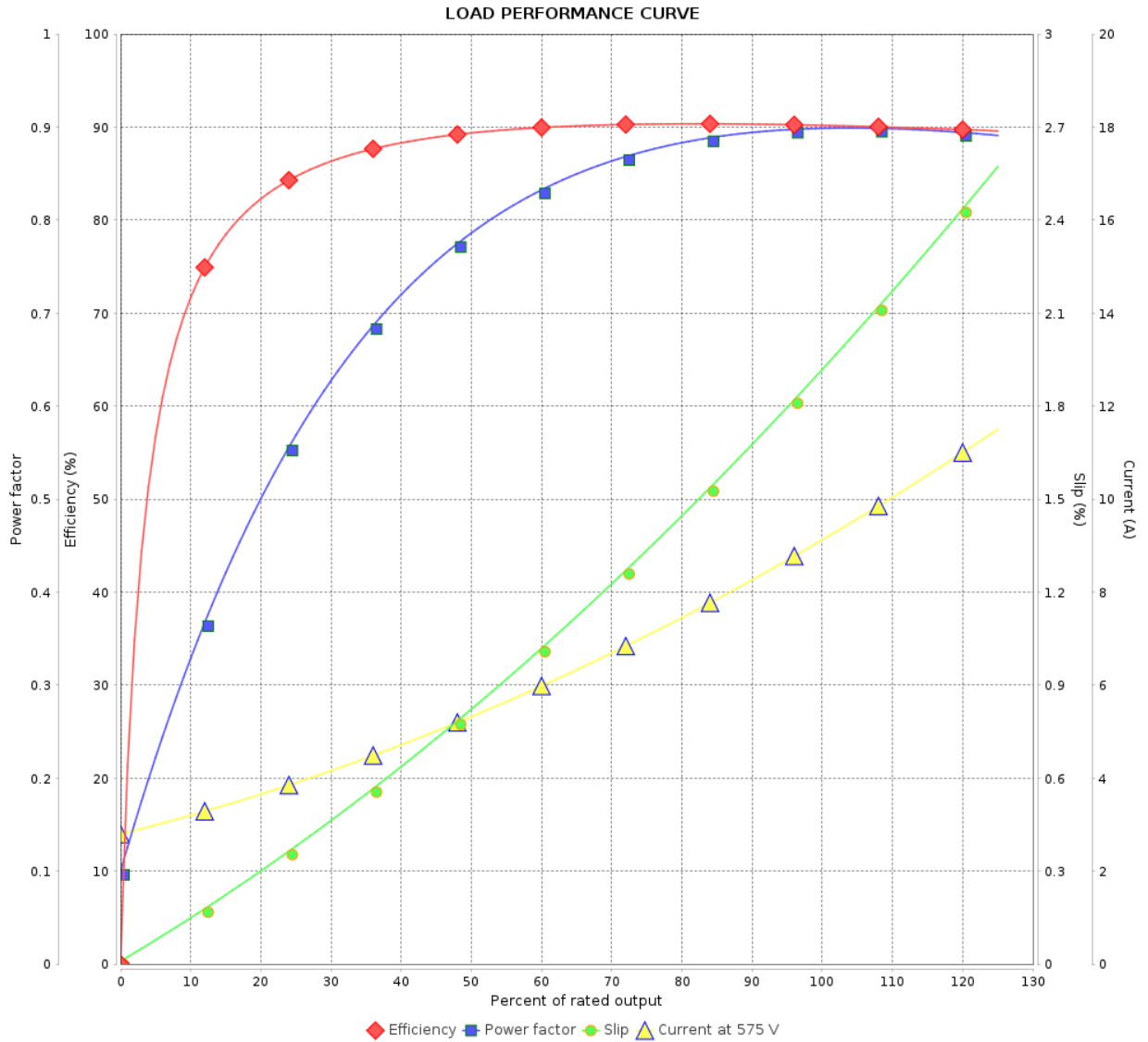
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

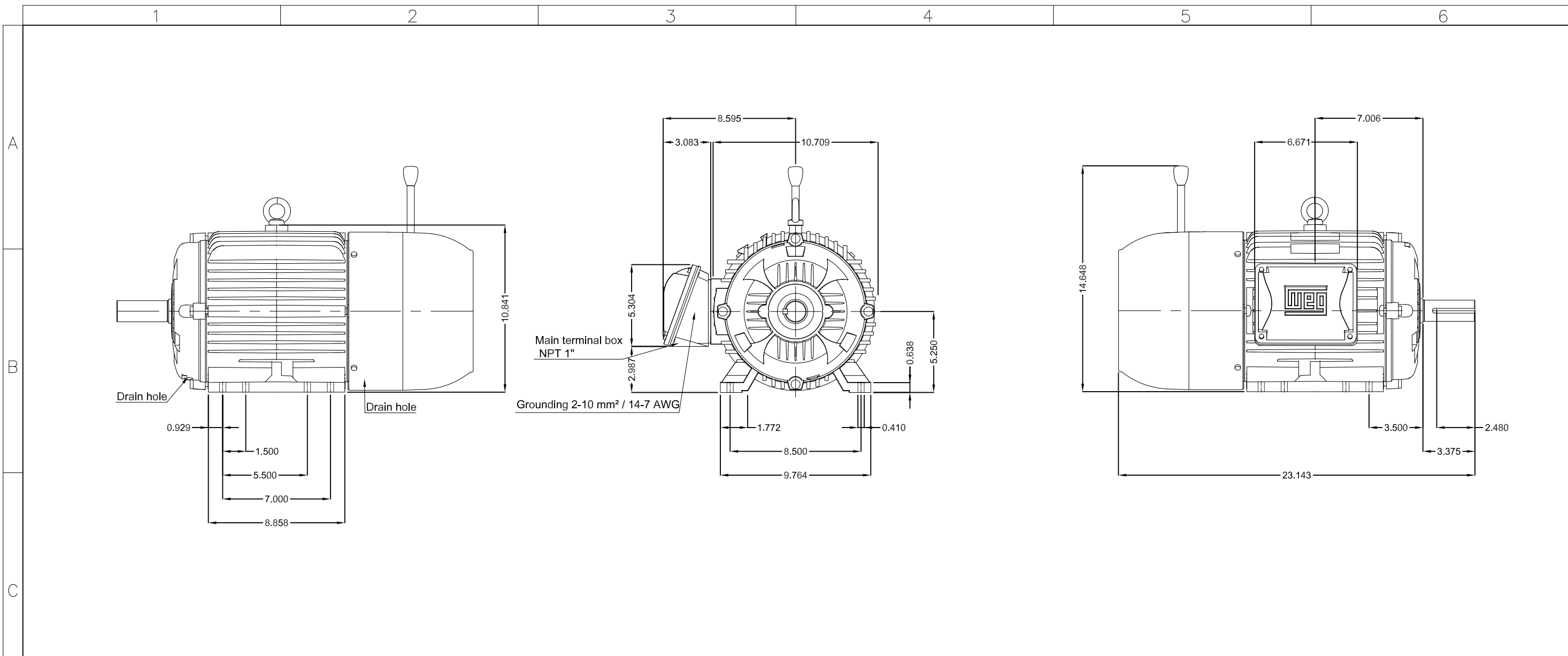
Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 14433680



Performance : 575 V 60 Hz 2P

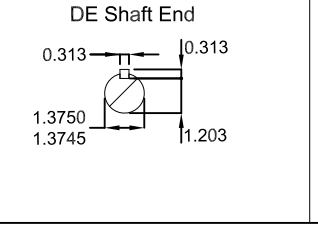
| | | | |
|---------------------|-------------|-----------------------|---------------------------|
| Rated current | : 9.28 A | Moment of inertia (J) | : 0.0268 kgm ² |
| LRC | : 7.2 | Duty cycle | : Cont.(S1) |
| Rated torque | : 2.06 kgfm | Insulation class | : F |
| Locked rotor torque | : 220 % | Service factor | : 1.25 |
| Breakdown torque | : 290 % | Temperature rise | : 80 K |
| Rated speed | : 3530 rpm | Design | : B |

| Rev. | Changes Summary | Performed | Checked | Date |
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| Performed by | | | Page | Revision |
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| | | | |
|-------|----------|-------|---|
| 10 HP | 02 Poles | 60 Hz | A |
|-------|----------|-------|---|

| |
|-------------------------|
| Brake voltage 525-575 V |
| Break size 16 (80 Nm) |
| Color RAL 5009 |
| Painting plan 207A |
| Mounting NEMA F-1 |
| Mounting B3R(D) |



| | | | | | | | | |
|-----------|------------|---|------------|----------|---------|----------|------|-----|
| ECM | LOC | SUMMARY OF MODIFICATIONS | HYBRISUSER | EXECUTED | CHECKED | RELEASED | DATE | VER |
| EXECUTED | HYBRISUSER | THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF. | | | | | | |
| CHECKED | | FRAME 213/5T IP55 TEFC | | | | | | |
| RELEASED | | | | | | | | |
| REL. DATE | | | | | | | | |

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|------------|--|--------|--|
| HYBRISUSER | | 00 | |
| PREVIEW | | WDD 00 | |
| SHEET / | | WEG | |