# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862396

| | | | |
|---|---|---|---|
| Frame | : 200L | Locked rotor time | : 23s (cold) 13s (hot) |
| Output | : 30 kW (40 HP) | Temperature rise | : 80 K |
| Poles | : 2 | Duty cycle | : S1 |
| Frequency | : 50 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 400/690 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 55.9/32.4 A | Protection degree | : IP55 |
| L. R. Amperes | : 436/253 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.8 | Mounting | : B3T |
| No load current | : 23.0/13.3 A | Rotation¹ | : Both (CW and CCW) |
| Rated speed | : 2970 rpm | Noise level² | : 72.0 dB(A) |
| Slip | : 1.00 % | Starting method | : Direct On Line |
| Rated torque | : 96.5 Nm | Approx. weight³ | : 247 kg |
| Locked rotor torque | : 330 % | | |
| Breakdown torque | : 320 % | | |
| Insulation class | : F | | |
| Service factor | : 1.00 | | |
| Moment of inertia (J) | : 0.1703 kgm² | | |
| Design | : N | | |

| Output | 25% | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | 0.000 | 92.0 | 93.2 | 93.3 |
| Power Factor | 0.00 | 0.68 | 0.78 | 0.83 |

Foundation loads

| | |
|---|---|
| Max. traction | : 2520 N |
| Max. compression | : 4943 N |

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) |
|---|---|---|---|---|---|---|
| 6.8 | 5.4 | 5.3 | 3.7 | 2.3 | 1.6 | 1.0 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6312 ZZ C3 | 6212 ZZ C3 |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | - | - |
| Lubricant amount | : | - | - |
| Lubricant type | : | 00088 | |

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 IEC 60034-1.

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | |

| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

**Thermal protection**

| ID | Application | Type | Quantity | Sensing Temperature |
|---|---|---|---|---|
| 1 | Winding | Thermistor - 2 wires | 1 x Phase | 155 ºC |

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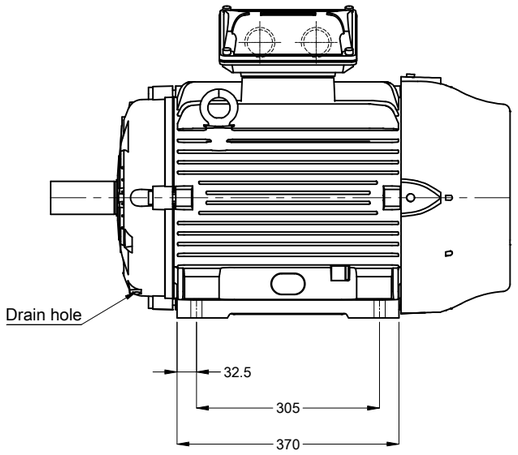
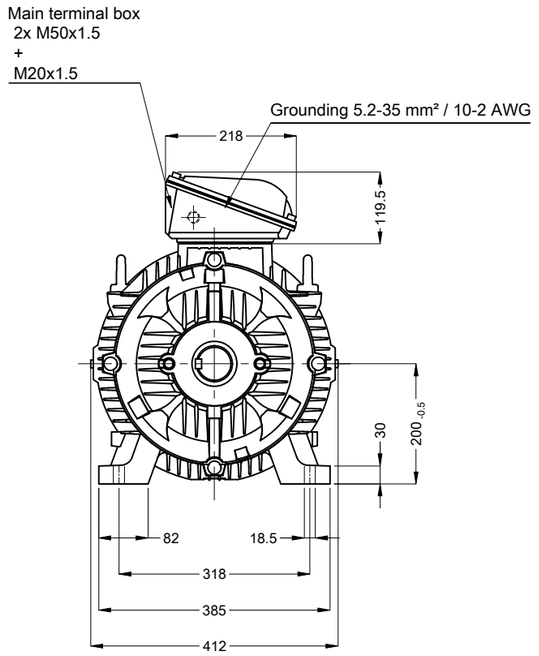
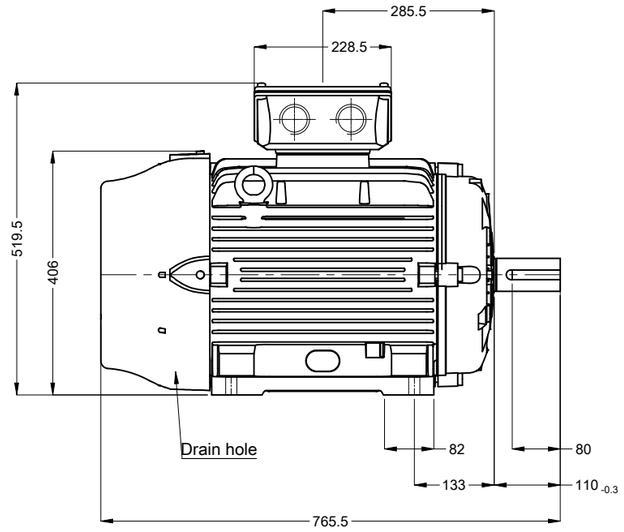


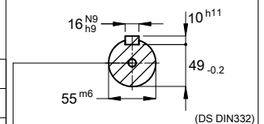




Color RAL 5009

Painting plan 203A

Mounting B3T

DE Shaft End




DM20 WEG WPR-7339

30 kW 02 Poles 50 Hz | A

Scale 1 : 10

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

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

THREE PH. MOTOR W22 IE3

FRAME 200L IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in mm

A3

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