# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase  Product code : 12761144

| | | | |
|---|---|---|---|
| Frame | : 180L | Locked rotor time | : 32s (cold) 18s (hot) |
| Output | : 30 HP (22 kW) | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : S1 |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 575 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 28.8 A | Protection degree | : IP55 |
| L. R. Amperes | : 274 A | Cooling method | : IC411 - TEFC |
| LRC | : 9.5 | Mounting | : B35L(E) |
| No load current | : 13.4 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 1778 rpm | Noise level[2] | : 63.0 dB(A) |
| Slip | : 1.22 % | Starting method | : Direct On Line |
| Rated torque | : 12.2 kgfm | Approx. weight[3] | : 206 kg |
| Locked rotor torque | : 360 % | | |
| Breakdown torque | : 380 % | | |
| Insulation class | : F | | |
| Service factor | : 1.25 | | |
| Moment of inertia (J) | : 0.2272 kgm² | | |
| Design | : N | | |

| Output | 50% | 75% | 100% |
|---|---|---|---|
| Efficiency (%) | 91.0 | 92.4 | 93.6 |
| Power Factor | 0.65 | 0.76 | 0.82 |

Foundation loads

Max. traction : 564 kgf

Max. compression : 769 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) |
|---|---|---|---|---|---|---|
| 6.5 | 5.0 | 4.4 | 3.8 | 2.4 | 1.8 | 1.2 |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6311 C3 | 6211 C3 |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | 20000 h | 20000 h |
| Lubricant amount | : | 18 g | 11 g |
| 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 | 25/10/2024 | | 1 / 2 | |

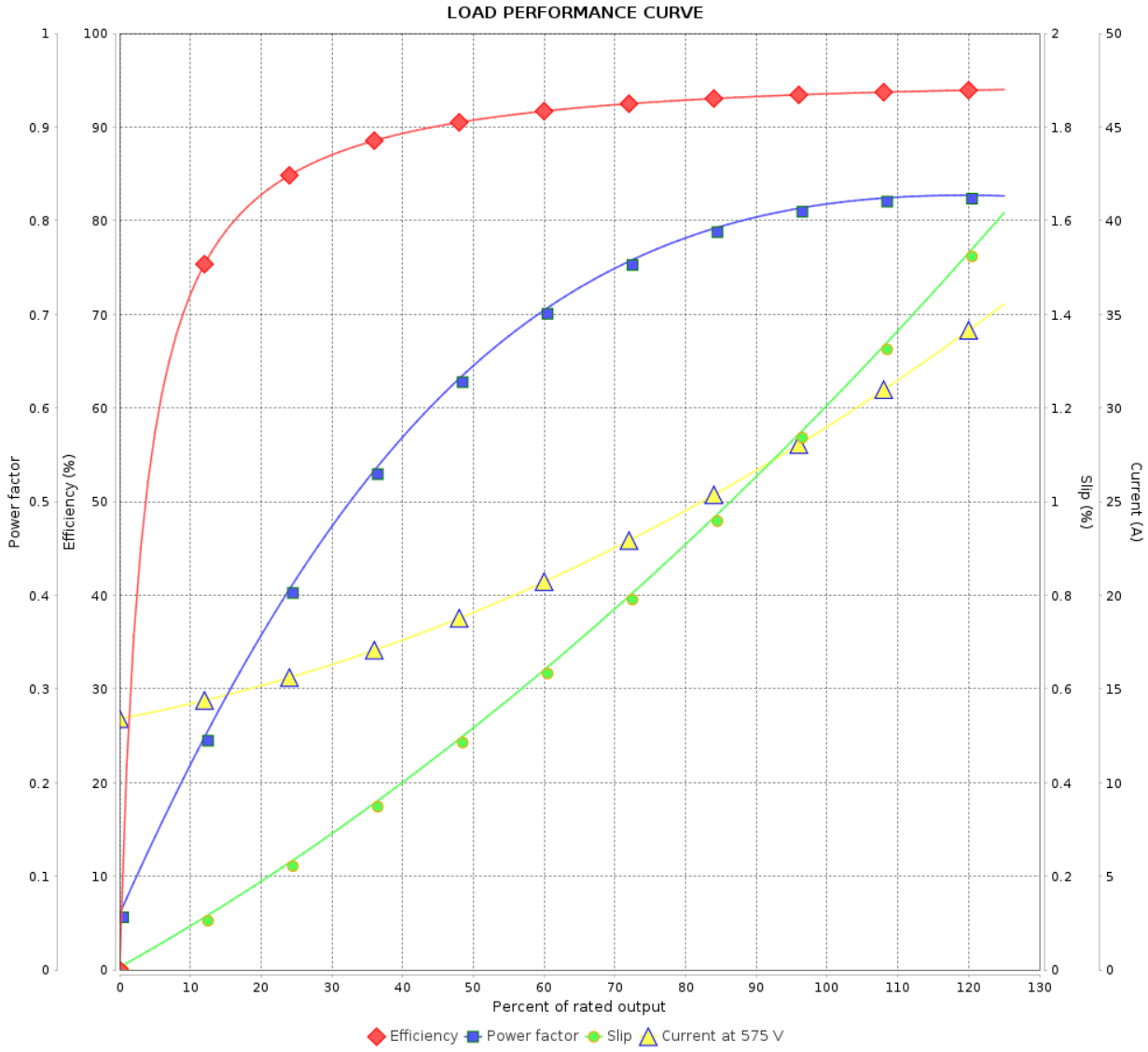
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12761144

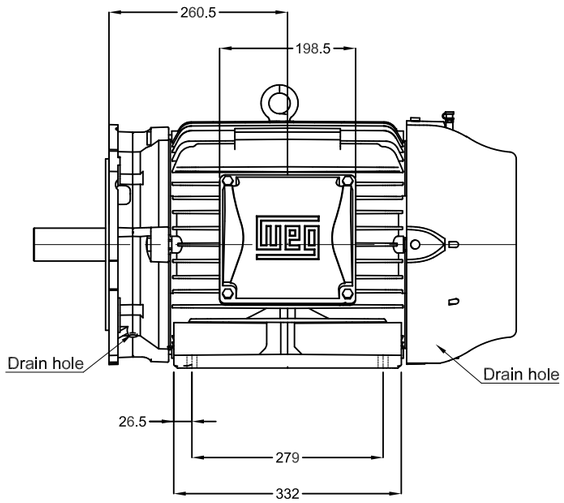


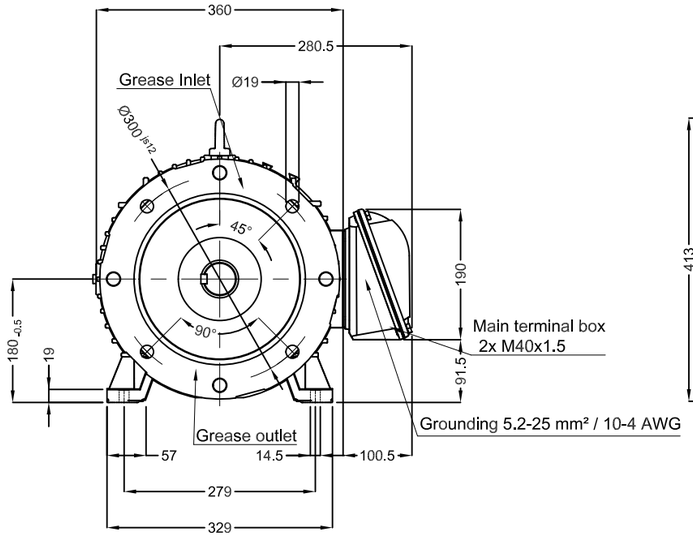

| | | | |
|---|---|---|---|
| Performance | : 575 V 60 Hz 4P | | |
| Rated current | : 28.8 A | Moment of inertia (J) | : 0.2272 kgm² |
| LRC | : 9.5 | Duty cycle | : S1 |
| Rated torque | : 12.2 kgfm | Insulation class | : F |
| Locked rotor torque | : 360 % | Service factor | : 1.25 |
| Breakdown torque | : 380 % | Temperature rise | : 80 K |
| Rated speed | : 1778 rpm | Design | : N |

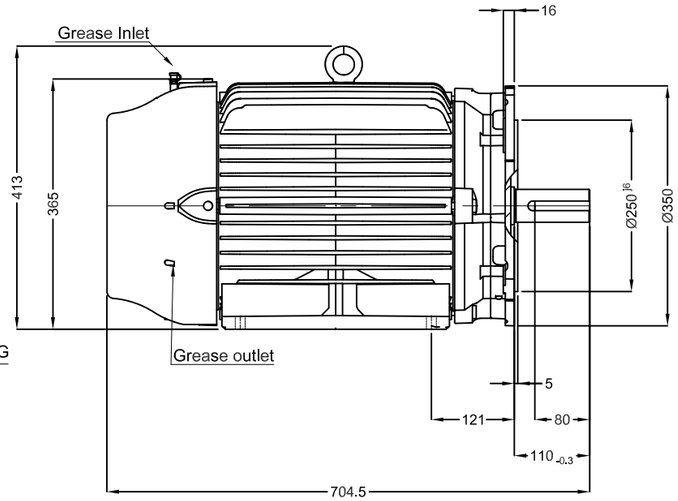
| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | |

| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 25/10/2024 | | 2 / 2 | |

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.
Subject to change without notice



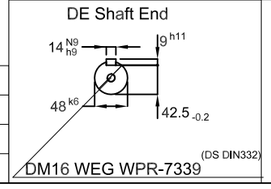

Without vertical jackscrews

Color RAL 5009

Painting plan 203A

Mounting B35L(E)

DE Shaft End




DM16 WEG WPR-7339

30 HP 04 Poles 60 Hz | A

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

| | | | |
|---|---|---|---|
| EXECUTED | HYBRISUSER | THREE PH. MOTOR W22 IE3 | PREVIEW |
| CHECKED | | FRAME 180L IP55 TEFC | WDD 00 |
| RELEASED | | | SHEET / |
| REL. DATE | | | |

Dimensions in mm

A3

WEG's property. Forbidden reproduction without previous authorization.