# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

| | |
|---|---|
| Customer | : IDS |

| | | | |
|---|---|---|---|
| Product line | : W22 IE3 Three-Phase | Product code : | 12862484 |

| | | | |
|---|---|---|---|
| Frame | : 100L | Locked rotor time | : 32s (cold) 18s (hot) |
| Output | : 2.2 kW | Temperature rise | : 80 K |
| Poles | : 4 | Duty cycle | : S1 |
| Frequency | : 50 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 230/400 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 7.93/4.56 A | Protection degree | : IP55 |
| L. R. Amperes | : 58.7/33.7 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.4 | Mounting | : B3T |
| No load current | : 4.17/2.40 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 1435 rpm | Noise level[2] | : 53.0 dB(A) |
| Slip | : 4.33 % | Starting method | : Direct On Line |
| Rated torque | : 1.49 kgfm | Approx. weight[3] | : 33.2 kg |
| Locked rotor torque | : 320 % | | |
| Breakdown torque | : 350 % | | |
| Insulation class | : F | | |
| Service factor | : 1.00 | | |
| Moment of inertia (J) | : 0.0090 kgm² | | |
| Design | : N | | |

| Output | 50% | 75% | 100% |
|---|---|---|---|
| Efficiency (%) | 86.5 | 87.0 | 87.0 |
| Power Factor | 0.60 | 0.73 | 0.80 |

Foundation loads

| | |
|---|---|
| Max. traction | : 118 kgf |
| Max. compression | : 151 kgf |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6206 ZZ | 6205 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 IEC 60034-1.

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

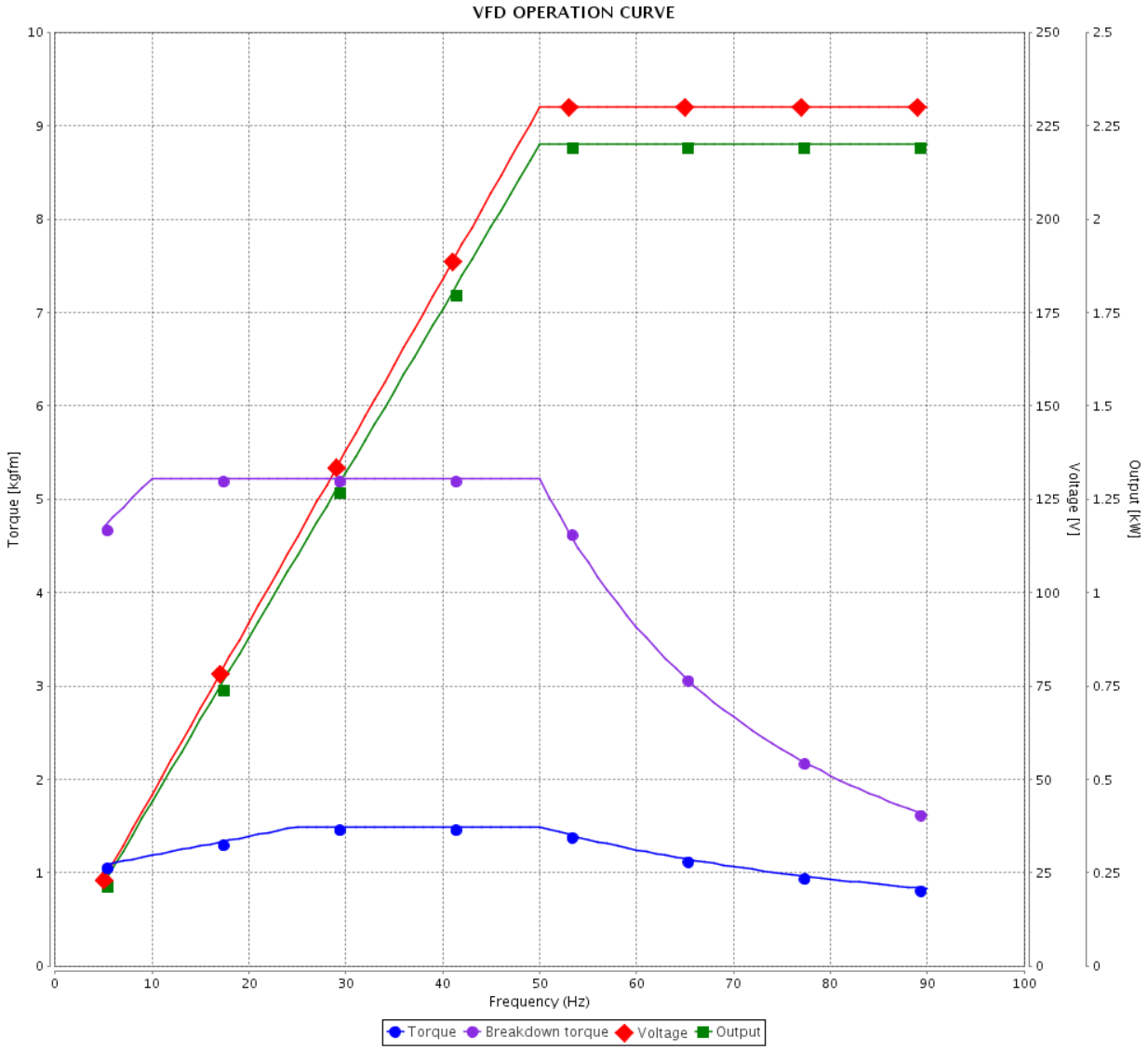
| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 27/06/2019 | | 1 / 2 | |

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

# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : IDS | | |
| Product line | : W22 IE3 Three-Phase | Product code : | 12862484 |




| | | | |
|---|---|---|---|
| Performance | : 230/400 V 50 Hz 4P | | |
| Rated current | : 7.93/4.56 A | Moment of inertia (J) | : 0.0090 kgm² |
| LRC | : 7.4 | Duty cycle | : S1 |
| Rated torque | : 1.49 kgfm | Insulation class | : F |
| Locked rotor torque | : 320 % | Service factor | : 1.00 |
| Breakdown torque | : 350 % | Temperature rise | : 80 K |
| Rated speed | : 1435 rpm | Design | : N |

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

| | | | | |
|---|---|---|---|---|
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 27/06/2019 | | 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