# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

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

| | | | |
|---|---|---|---|
| Product line | : W22 IE3 Three-Phase | Product code : | 12862395 |

| | | | |
|---|---|---|---|
| Frame | : 180M | Locked rotor time | : 10s (cold) 6s (hot) |
| Output | : 22 kW | 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 | : 39.7/23.0 A | Protection degree | : IP55 |
| L. R. Amperes | : 330/191 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.3 | Mounting | : B3T |
| No load current | : 16.9/9.81 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 2950 rpm | Noise level[2] | : 67.0 dB(A) |
| Slip | : 1.67 % | Starting method | : Direct On Line |
| Rated torque | : 7.26 kgfm | Approx. weight[3] | : 169 kg |
| Locked rotor torque | : 270 % | | |
| Breakdown torque | : 360 % | | |
| Insulation class | : F | | |
| Service factor | : 1.00 | | |
| Moment of inertia (J) | : 0.0968 kgm² | | |
| Design | : N | | |

| Output | 50% | 75% | 100% |
|---|---|---|---|
| Efficiency (%) | 92.3 | 93.0 | 92.9 |
| Power Factor | 0.69 | 0.80 | 0.86 |

| Foundation loads | |
|---|---|
| Max. traction | : 270 kgf |
| Max. compression | : 438 kgf |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6311 C3 | 6211 Z C3 |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | 17000 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 IEC 60034-1.

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
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# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer : IDS

**Thermal protection**

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

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

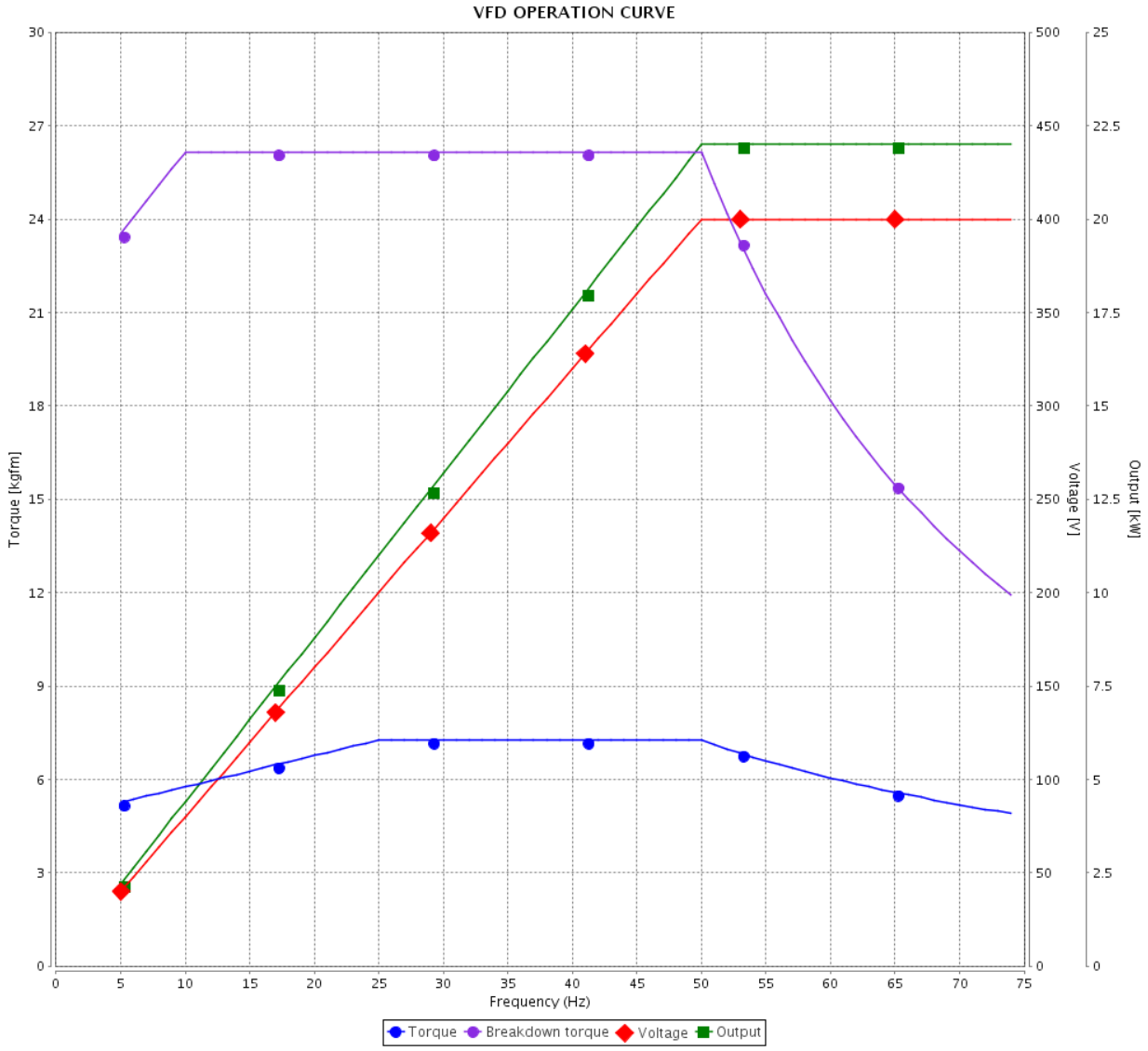
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# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : IDS | | |
| Product line | : W22 IE3 Three-Phase | Product code : | 12862395 |




| | | | |
|---|---|---|---|
| Performance | : 400/690 V 50 Hz 2P | | |
| Rated current | : 39.7/23.0 A | Moment of inertia (J) | : 0.0968 kgm² |
| LRC | : 8.3 | Duty cycle | : S1 |
| Rated torque | : 7.26 kgfm | Insulation class | : F |
| Locked rotor torque | : 270 % | Service factor | : 1.00 |
| Breakdown torque | : 360 % | Temperature rise | : 80 K |
| Rated speed | : 2950 rpm | Design | : N |

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