# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : IDS | | |
| Product line | : W22 IE3 Three-Phase | Product code : | 12862549 |

| | | | |
|---|---|---|---|
| Frame | : 225S/M | Locked rotor time | : 25s (cold) 14s (hot) |
| Output | : 45 kW | Temperature rise | : 80 K |
| Poles | : 4 | 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 | : 80.9/46.9 A | Protection degree | : IP55 |
| L. R. Amperes | : 607/352 A | Cooling method | : IC411 - TEFC |
| LRC | : 7.5 | Mounting | : B5T |
| No load current | : 31.7/18.4 A | Rotation¹ | : Both (CW and CCW) |
| Rated speed | : 1480 rpm | Noise level² | : 63.0 dB(A) |
| Slip | : 1.33 % | Starting method | : Direct On Line |
| Rated torque | : 29.6 kgfm | Approx. weight³ | : 405 kg |
| Locked rotor torque | : 280 % | | |
| Breakdown torque | : 310 % | | |
| Insulation class | : F | | |
| Service factor | : 1.00 | | |
| Moment of inertia (J) | : 0.6733 kgm² | | |
| Design | : N | | |

| Output | 50% | 75% | 100% |
|---|---|---|---|
| Efficiency (%) | 93.7 | 94.1 | 94.4 |
| Power Factor | 0.71 | 0.81 | 0.85 |

| Foundation loads | |
|---|---|
| Max. traction | : 763 kgf |
| Max. compression | : 1168 kgf |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6314 C3 | 6314 C3 |
| Sealing | : | Oil Seal | Oil Seal |
| Lubrication interval | : | 14000 h | 14000 h |
| Lubricant amount | : | 27 g | 27 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 |
|---|---|---|---|---|
| | | | | |

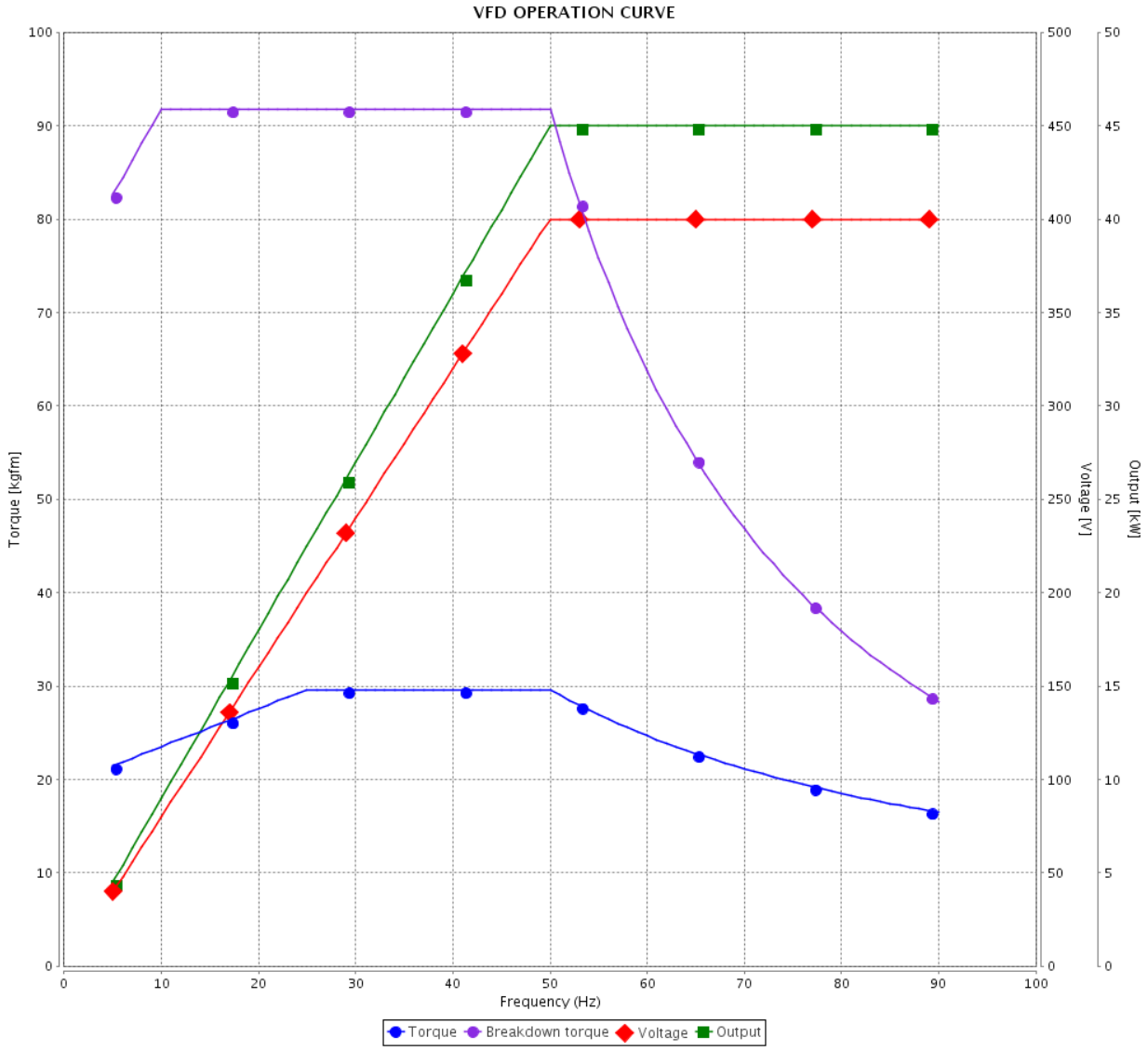
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# VFD OPERATION CURVE

## Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---|---|---|
| Customer | : IDS | | |
| Product line | : W22 IE3 Three-Phase | Product code : | 12862549 |




| | | | |
|---|---|---|---|
| Performance | : 400/690 V 50 Hz 4P | | |
| Rated current | : 80.9/46.9 A | Moment of inertia (J) | : 0.6733 kgm² |
| LRC | : 7.5 | Duty cycle | : S1 |
| Rated torque | : 29.6 kgfm | Insulation class | : F |
| Locked rotor torque | : 280 % | Service factor | : 1.00 |
| Breakdown torque | : 310 % | Temperature rise | : 80 K |
| Rated speed | : 1480 rpm | Design | : N |

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