

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

| | | | |
|---|---------------------------|--|-------------------------|
| Customer | | : IDS | |
| Product line | | : W22 IE3 Three-Phase | Product code : 12862393 |
| Frame | : 160M | Locked rotor time | : 14s (cold) 8s (hot) |
| Output | : 15 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 | : 27.7/16.1 A | Protection degree | : IP55 |
| L. R. Amperes | : 230/133 A | Cooling method | : IC411 - TEFC |
| LRC | : 8.3 | Mounting | : B3T |
| No load current | : 12.8/7.45 A | Rotation ¹ | : Both (CW and CCW) |
| Rated speed | : 2945 rpm | Noise level ² | : 67.0 dB(A) |
| Slip | : 1.83 % | Starting method | : Direct On Line |
| Rated torque | : 4.96 kgfm | Approx. weight ³ | : 121 kg |
| Locked rotor torque | : 280 % | | |
| Breakdown torque | : 350 % | | |
| Insulation class | : F | | |
| Service factor | : 1.00 | | |
| Moment of inertia (J) | : 0.0551 kgm ² | | |
| Design | : N | | |
| Output | 50% | 75% | 100% |
| Efficiency (%) | 90.9 | 91.8 | 92.1 |
| Power Factor | 0.67 | 0.79 | 0.85 |
| Foundation loads | | | |
| Max. traction | | : 205 kgf | |
| Max. compression | | : 326 kgf | |
| Bearing type | | Drive end | Non drive end |
| : | | 6309 C3 | 6209 Z C3 |
| Sealing | | V'Ring | V'Ring |
| Lubrication interval | | 20000 h | 20000 h |
| Lubricant amount | | 13 g | 9 g |
| Lubricant type | | Mobil Polyrex EM | |
| Notes | | | |
| <p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p> | | | |
| This revision replaces and cancel the previous one, which must be eliminated. | | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1. | |
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Customer : IDS

Thermal protection

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

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VFD OPERATION CURVE

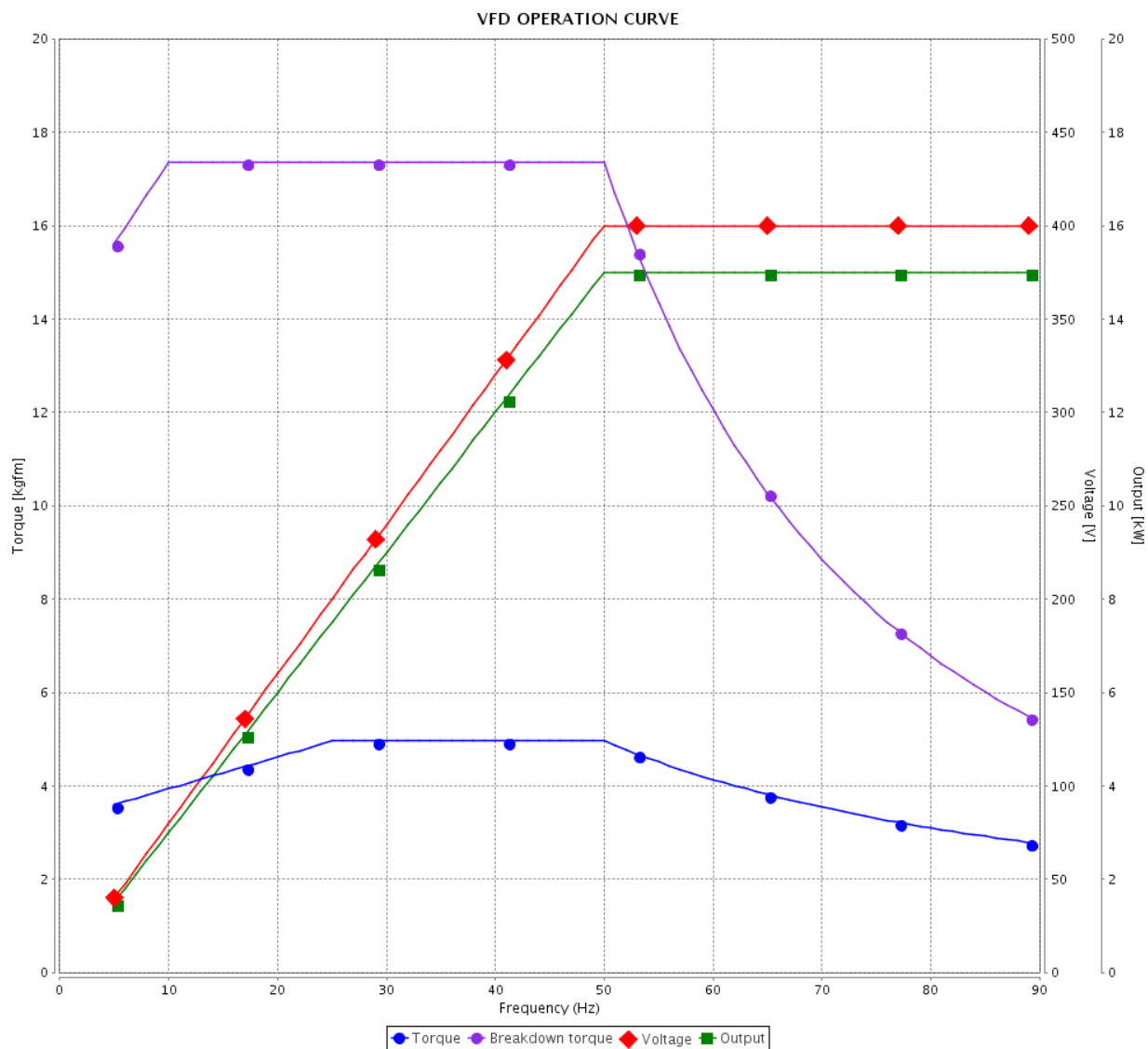
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862393



Performance : 400/690 V 50 Hz 2P

Rated current : 27.7/16.1 A
 LRC : 8.3
 Rated torque : 4.96 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 350 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.0551 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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| | | Revision | | |