

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | | | | | | | | | | | | | | |
|--|-----------------|--|--|---------------------------|---------|--------------|--|--|---------------|----------|------------|--|------|------------|
| Customer | | : IDS | | | | | | | | | | | | |
| Product line | | : W22 IE3 Three-Phase | | Product code : 12862355 | | | | | | | | | | |
| Frame : 90S Output : 1.5 kW Poles : 2 Frequency : 50 Hz Rated voltage : 230/400 V Rated current : 5.37/3.09 A L. R. Amperes : 40.8/23.5 A LRC : 7.6 No load current : 2.61/1.50 A Rated speed : 2875 rpm Slip : 4.17 % Rated torque : 0.508 kgfm Locked rotor torque : 330 % Breakdown torque : 330 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.0020 kgm ² Design : N | | Locked rotor time : 27s (cold) 15s (hot) Temperature rise : 80 K Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : B3T Rotation ¹ : Both (CW and CCW) Noise level ² : 62.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 20.5 kg | | | | | | | | | | | | |
| Output | 50% | 75% | 100% | Foundation loads | | | | | | | | | | |
| Efficiency (%) | 83.0 | 85.0 | 84.5 | Max. traction : 42 kgf | | | | | | | | | | |
| Power Factor | 0.64 | 0.76 | 0.83 | Max. compression : 62 kgf | | | | | | | | | | |
| | | <u>Drive end</u> | | <u>Non drive end</u> | | | | | | | | | | |
| Bearing type | : | 6205 ZZ | | 6204 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 | | | | | | | | | |
| <table border="1"> <tr> <td>Performed by</td> <td></td> <td rowspan="3"></td> <td rowspan="3">Page 1 / 2</td> <td rowspan="3">Revision</td> </tr> <tr> <td>Checked by</td> <td></td> </tr> <tr> <td>Date</td> <td>25/06/2019</td> </tr> </table> | | | | | | Performed by | | | Page 1 / 2 | Revision | Checked by | | Date | 25/06/2019 |
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| Checked by | | | | | | | | | | | | | | |
| Date | 25/06/2019 | | | | | | | | | | | | | |

VFD OPERATION CURVE

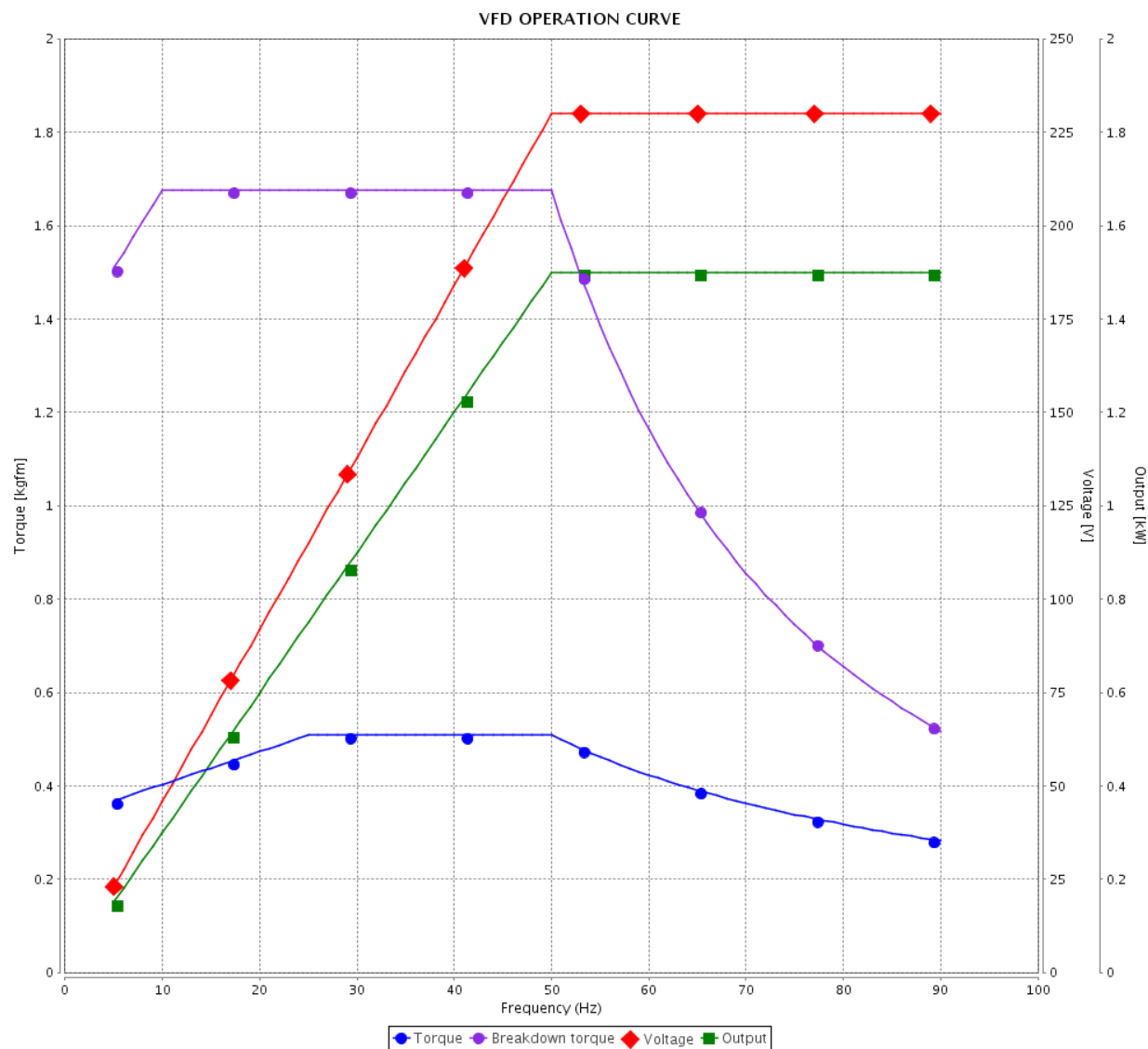
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862355



Performance : 230/400 V 50 Hz 2P

Rated current : 5.37/3.09 A
 LRC : 7.6
 Rated torque : 0.508 kgfm
 Locked rotor torque : 330 %
 Breakdown torque : 330 %
 Rated speed : 2875 rpm

Moment of inertia (J) : 0.0020 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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