### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE3 Three-Phase Product code: 12862394 Frame Locked rotor time : 10s (cold) 6s (hot) : 160L Output : 18.5 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. Protection degree Rated current : 33.9/19.7 A : IP55 : 292/169 A Cooling method : IC411 - TEFC L. R. Amperes LRC : 8.6 Mounting : B3T No load current : 15.2/8.79 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 2945 rpm Noise level<sup>2</sup> : 67.0 dB(A) Slip : 1.83 % Starting method : Direct On Line Rated torque : 6.12 kgfm Approx. weight3 : 137 kg Locked rotor torque : 310 % Breakdown torque : 370 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.0663 kgm<sup>2</sup> Design : N 100% Output 50% 75% Foundation loads Efficiency (%) 91.5 92.3 92.6 Max. traction : 274 kgf Power Factor 0.69 0.80 0.85 Max. compression : 411 kgf Drive end Non drive end 6209 Z C3 6309 C3 Bearing type V'Ring V'Ring Sealing Lubrication interval 20000 h 20000 h Lubricant amount 13 g 9 g

Mobil Polyrex EM

Notes

Lubricant type

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.

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# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer	: IDS

Thermal	protection

		<u> </u>		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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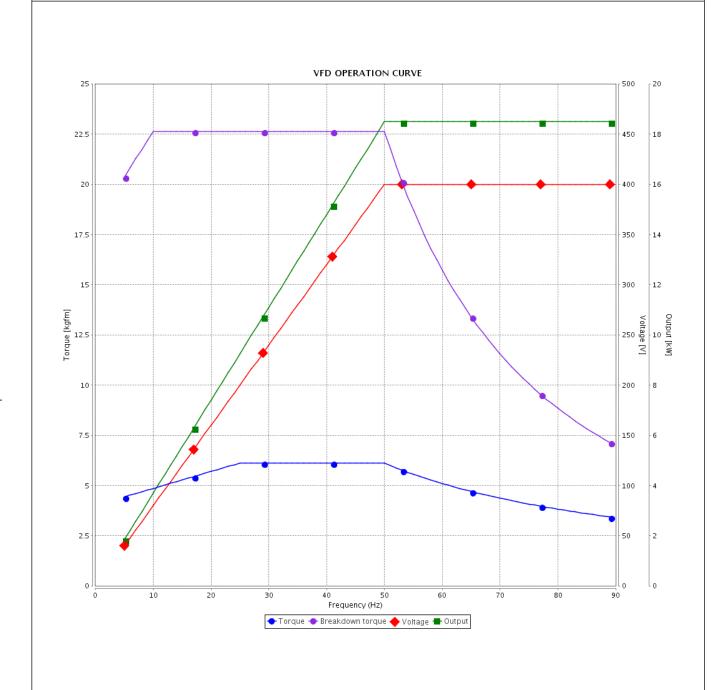
## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase Product code : 12862394



Performance	: 4	00/690 V 50 Hz 2P				
Rated current	: 3	3.9/19.7 A	Moment o	of inertia (J)	: 0.0663 kgm²	
LRC		.6 Duty cycle		•	: S1	
Rated torque	: 6	6.12 kgfm Insulation		class	: F : 1.00 : 80 K	
Locked rotor toro	que : 3	10 %	Service factor			
Breakdown torqu	ue : 3	: 370 % Tei		ure rise		
Rated speed	: 2	945 rpm	Design		: N	
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