

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer		: IDS			
Product line		: W22 IE3 Three-Phase		Product code : 12862412	
Frame : 315S/M Output : 110 kW Poles : 2 Frequency : 50 Hz Rated voltage : 400/690 V Rated current : 189/110 A L. R. Amperes : 1418/822 A LRC : 7.5 No load current : 60.0/34.8 A Rated speed : 2980 rpm Slip : 0.67 % Rated torque : 36.0 kgfm Locked rotor torque : 190 % Breakdown torque : 300 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 1.66 kgm <sup>2</sup> Design : N		Locked rotor time : 68s (cold) 38s (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 <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 77.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 914 kg			
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.3	95.3	95.4	Max. traction : 320 kgf	
Power Factor	0.78	0.85	0.88	Max. compression : 1234 kgf	
		<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6314 C3		6314 C3	
Sealing	:	WSeal		WSeal	
Lubrication interval	:	5000 h		5000 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.		
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### 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

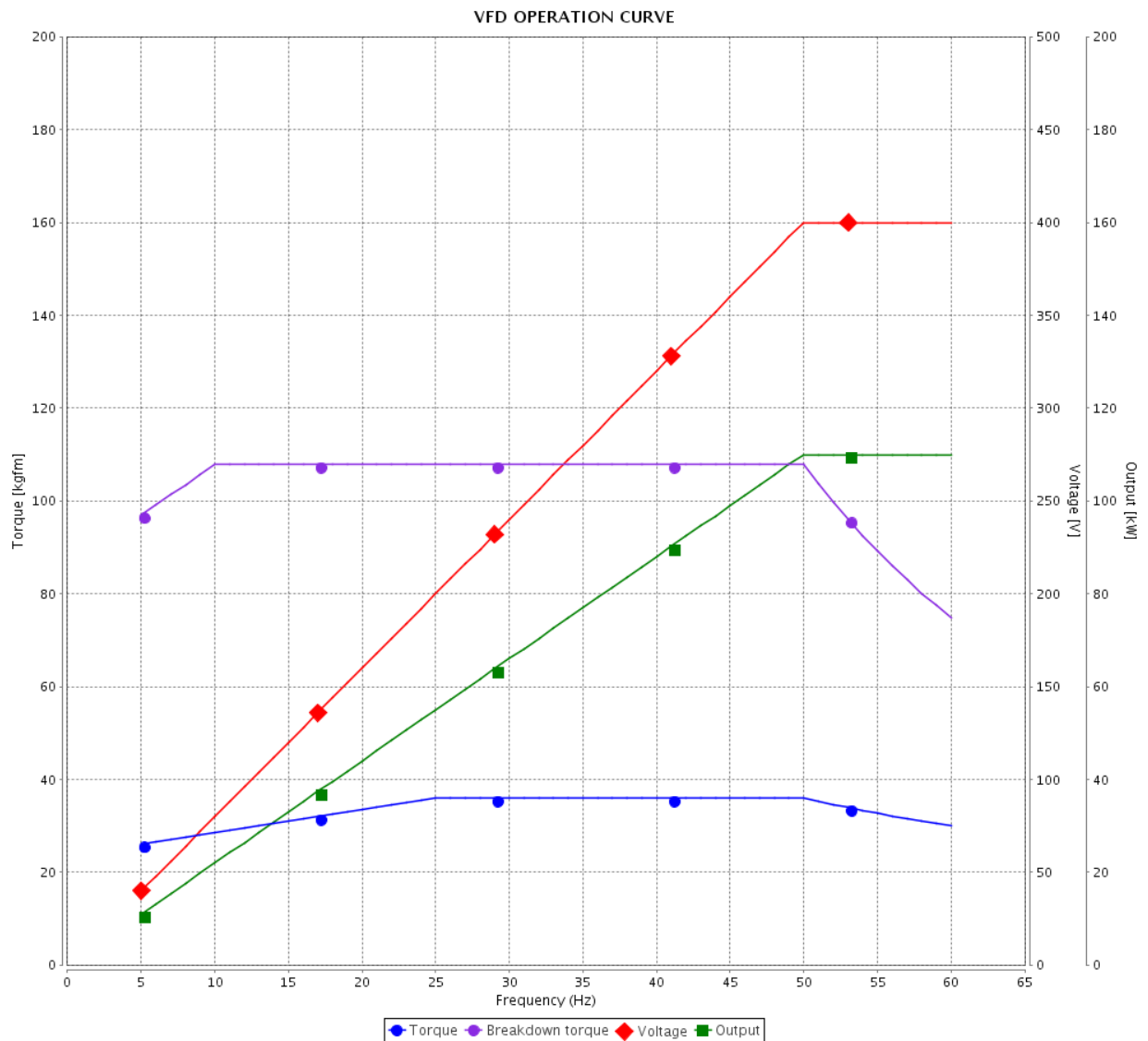
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862412



Performance : 400/690 V 50 Hz 2P

Rated current : 189/110 A  
 LRC : 7.5  
 Rated torque : 36.0 kgfm  
 Locked rotor torque : 190 %  
 Breakdown torque : 300 %  
 Rated speed : 2980 rpm

Moment of inertia (J) : 1.66 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

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