

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: IDS			
Product line		: W22 IE3 Three-Phase		Product code : 12862436	
Frame	: 160M	Locked rotor time	: 21s (cold) 12s (hot)		
Output	: 11 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	: 20.0/11.6 A	Protection degree	: IP55		
L. R. Amperes	: 160/92.8 A	Cooling method	: IC411 - TEFC		
LRC	: 8.0	Mounting	: B5T		
No load current	: 7.50/4.35 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 2950 rpm	Noise level ²	: 67.0 dB(A)		
Slip	: 1.67 %	Starting method	: Direct On Line		
Rated torque	: 3.63 kgfm	Approx. weight ³	: 118 kg		
Locked rotor torque	: 280 %				
Breakdown torque	: 340 %				
Insulation class	: F				
Service factor	: 1.00				
Moment of inertia (J)	: 0.0482 kgm ²				
Design	: N				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.3	91.4	91.4	Max. traction : 126 kgf	
Power Factor	0.71	0.82	0.87	Max. compression : 244 kgf	
		<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6309 C3		6209 Z C3	
Sealing	:	Oil Seal		Oil Seal	
Lubrication interval	:	20000 h		20000 h	
Lubricant amount	:	13 g		9 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

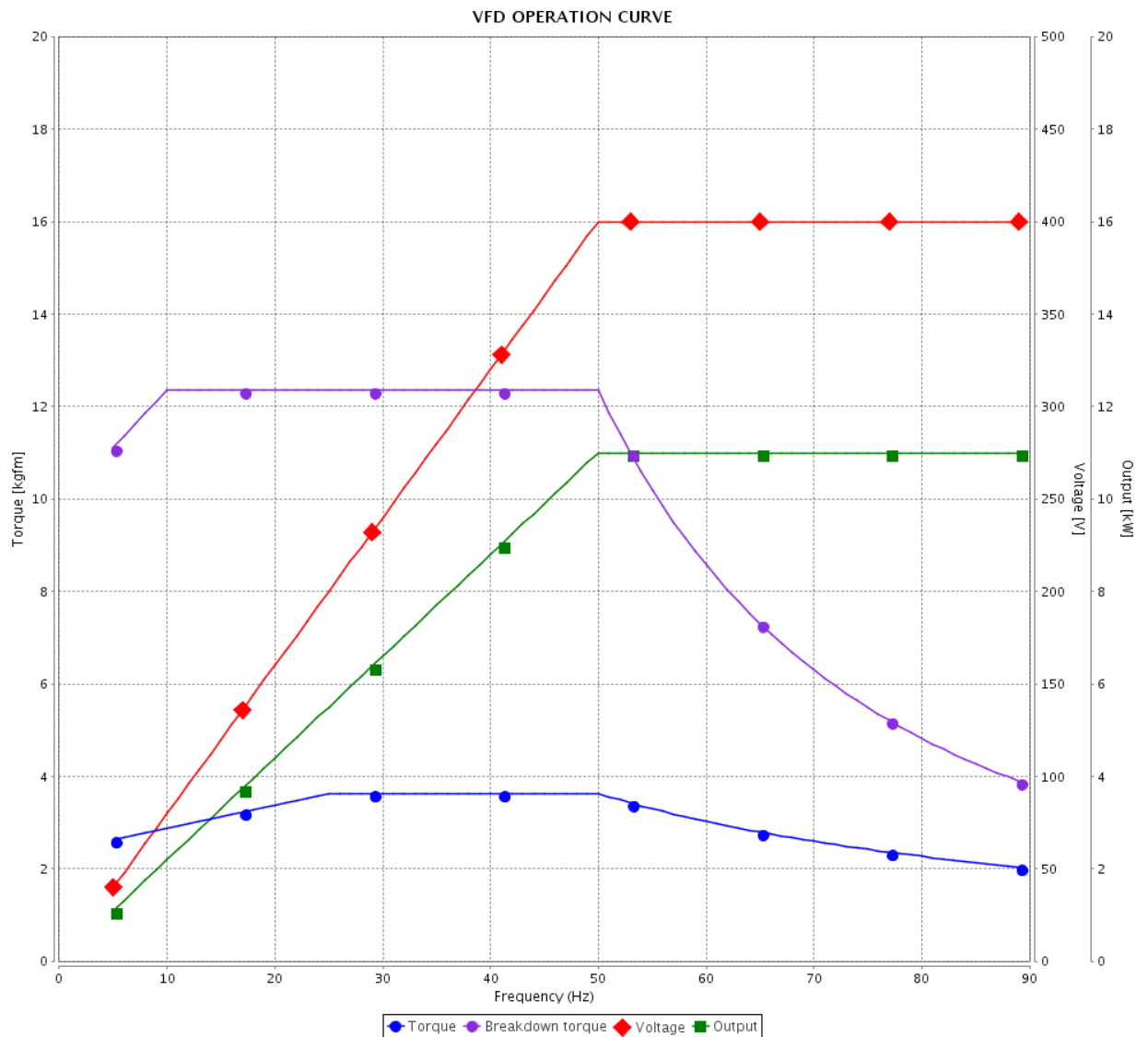
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862436



Performance : 400/690 V 50 Hz 2P

Rated current : 20.0/11.6 A
 LRC : 8.0
 Rated torque : 3.63 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 340 %
 Rated speed : 2950 rpm

Moment of inertia (J) : 0.0482 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

Rev.	Changes Summary		Performed	Checked	Date
Performed by		Page 3 / 3			Revision
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Date	26/06/2019				