

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: IDS			
Product line		: W22 IE3 Three-Phase		Product code : 12862756	
Frame	: 280S/M	Locked rotor time	: 50s (cold) 28s (hot)		
Output	: 45 kW	Temperature rise	: 80 K		
Poles	: 6	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	: 84.4/48.9 A	Protection degree	: IP55		
L. R. Amperes	: 540/313 A	Cooling method	: IC411 - TEFC		
LRC	: 6.4	Mounting	: B3T		
No load current	: 35.7/20.7 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 985 rpm	Noise level ²	: 65.0 dB(A)		
Slip	: 1.50 %	Starting method	: Direct On Line		
Rated torque	: 44.5 kgfm	Approx. weight ³	: 655 kg		
Locked rotor torque	: 210 %				
Breakdown torque	: 270 %				
Insulation class	: F				
Service factor	: 1.00				
Moment of inertia (J)	: 2.35 kgm ²				
Design	: N				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	93.9	93.9	93.9	Max. traction : 639 kgf	
Power Factor	0.67	0.77	0.82	Max. compression : 1294 kgf	
		<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6316 C3		6316 C3	
Sealing	:	WSeal		WSeal	
Lubrication interval	:	18000 h		18000 h	
Lubricant amount	:	34 g		34 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

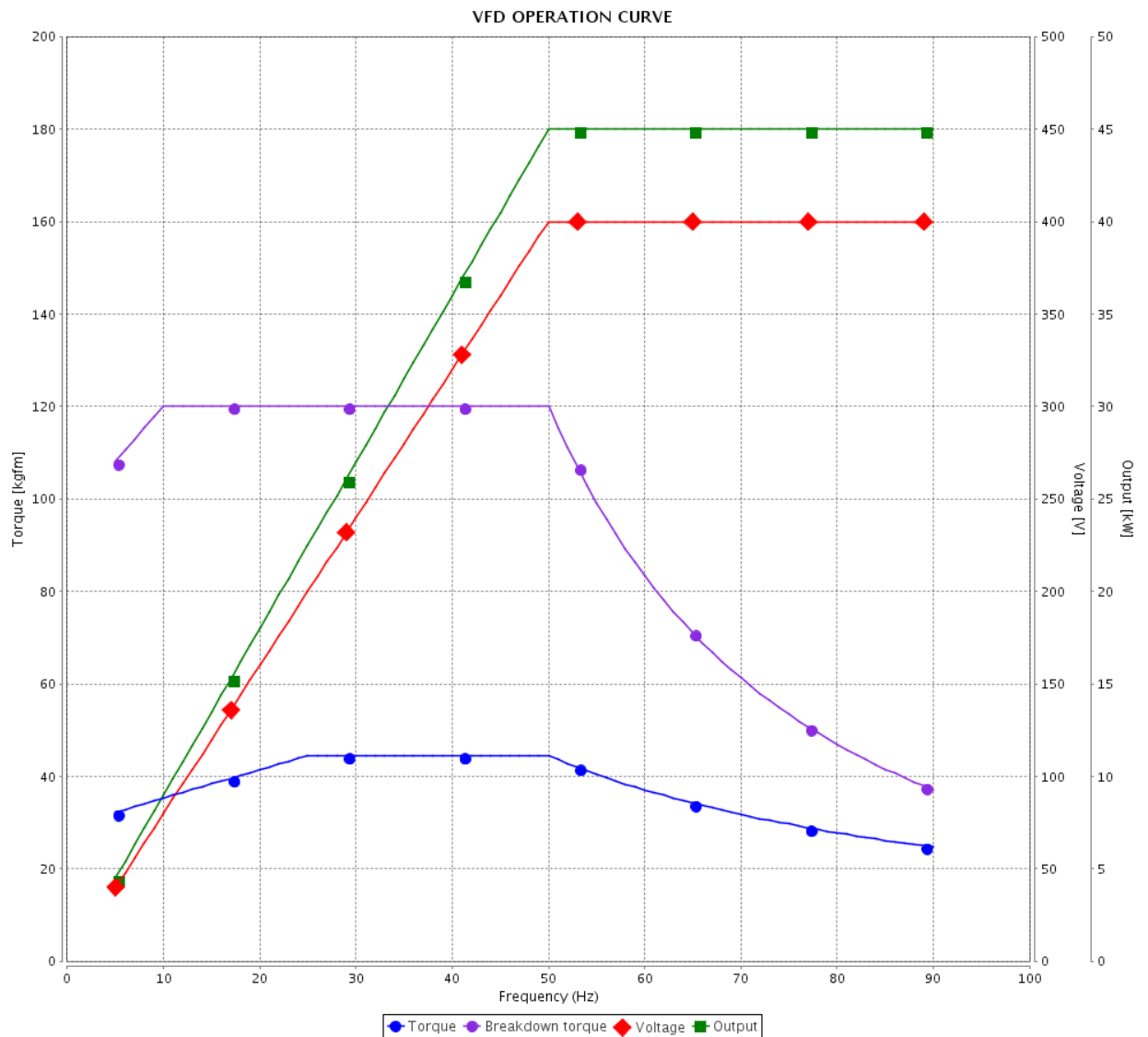
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862756



Performance : 400/690 V 50 Hz 6P

Rated current : 84.4/48.9 A
 LRC : 6.4
 Rated torque : 44.5 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 270 %
 Rated speed : 985 rpm

Moment of inertia (J) : 2.35 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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