

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862752
Frame	: 200L	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 18.5 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	: 35.9/20.8 A	Protection degree	: IP55
L. R. Amperes	: 226/131 A	Cooling method	: IC411 - TEFC
LRC	: 6.3	Mounting	: B3T
No load current	: 18.0/10.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 980 rpm	Noise level ²	: 60.0 dB(A)
Slip	: 2.00 %	Starting method	: Direct On Line
Rated torque	: 18.4 kgfm	Approx. weight ³	: 223 kg
Locked rotor torque	: 240 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.3510 kgm ²		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	91.0	91.7	91.9
Power Factor	0.63	0.75	0.81
Foundation loads			
Max. traction		: 483 kgf	
Max. compression		: 707 kgf	
Bearing type		Drive end	Non drive end
Sealing		6312 C3	6212 Z C3
Lubrication interval		V'Ring	V'Ring
Lubricant amount		20000 h	20000 h
Lubricant type		21 g	13 g
		Mobil Polyrex EM	
Notes			
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>			
<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.</p>			
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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

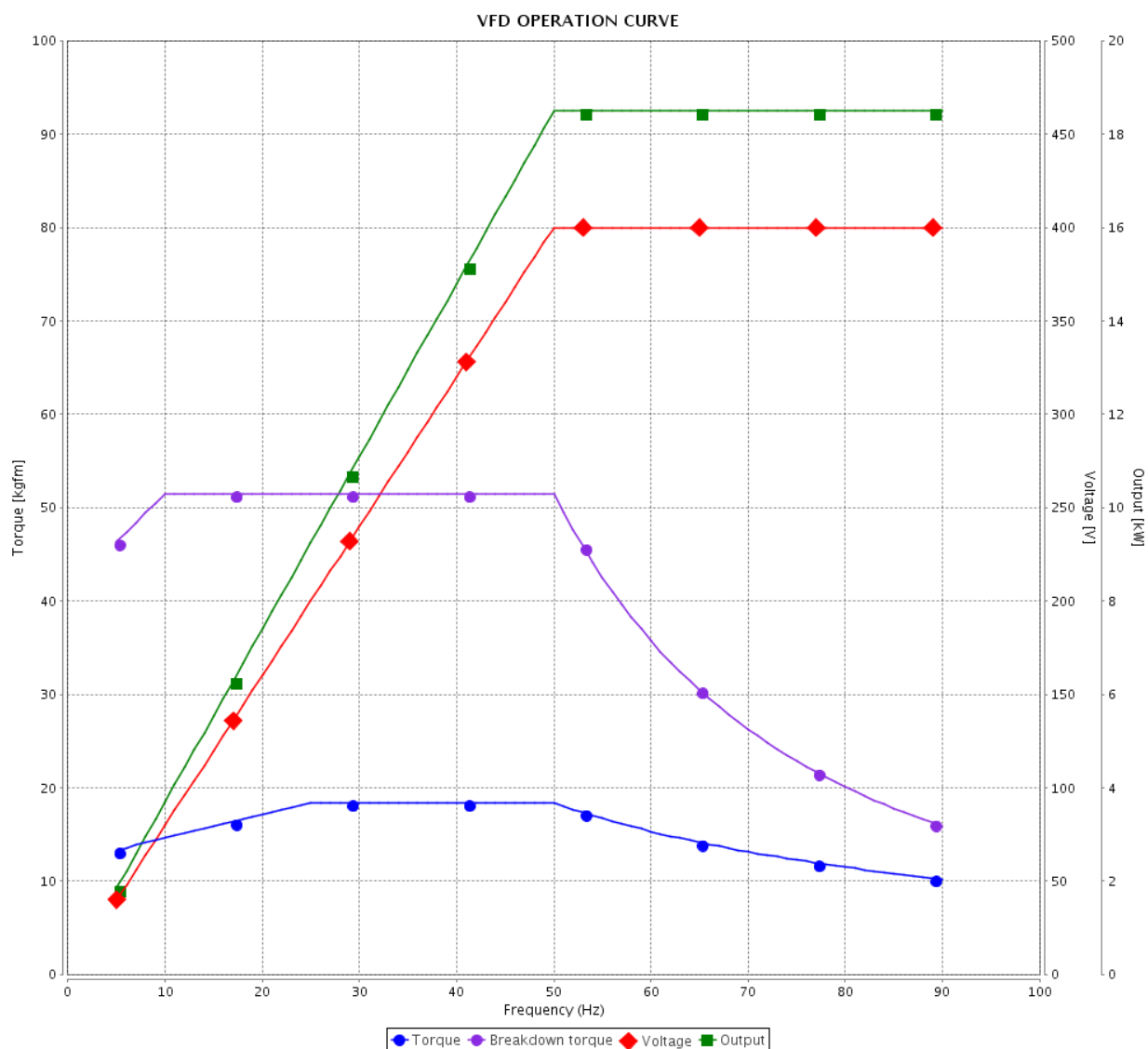
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862752



Performance : 400/690 V 50 Hz 6P

Rated current : 35.9/20.8 A
 LRC : 6.3
 Rated torque : 18.4 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 980 rpm

Moment of inertia (J) : 0.3510 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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