

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12863155
Frame	: 180L	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 11 kW	Temperature rise	: 80 K
Poles	: 8	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	: 23.3/13.5 A	Protection degree	: IP55
L. R. Amperes	: 151/87.8 A	Cooling method	: IC411 - TEFC
LRC	: 6.5	Mounting	: B3T
No load current	: 12.5/7.25 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 730 rpm	Noise level <sup>2</sup>	: 51.0 dB(A)
Slip	: 2.67 %	Starting method	: Direct On Line
Rated torque	: 14.7 kgfm	Approx. weight <sup>3</sup>	: 179 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.2846 kgm <sup>2</sup>		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	88.7	89.2	89.7
Power Factor	0.55	0.68	0.76
Foundation loads			
Max. traction		: 501 kgf	
Max. compression		: 680 kgf	
Bearing type		Drive end	Non drive end
Sealing		6311 C3	6211 Z C3
Lubrication interval		V'Ring	V'Ring
Lubricant amount		20000 h	20000 h
Lubricant type		18 g	11 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>			
This revision replaces and cancel the previous one, which must be eliminated.		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

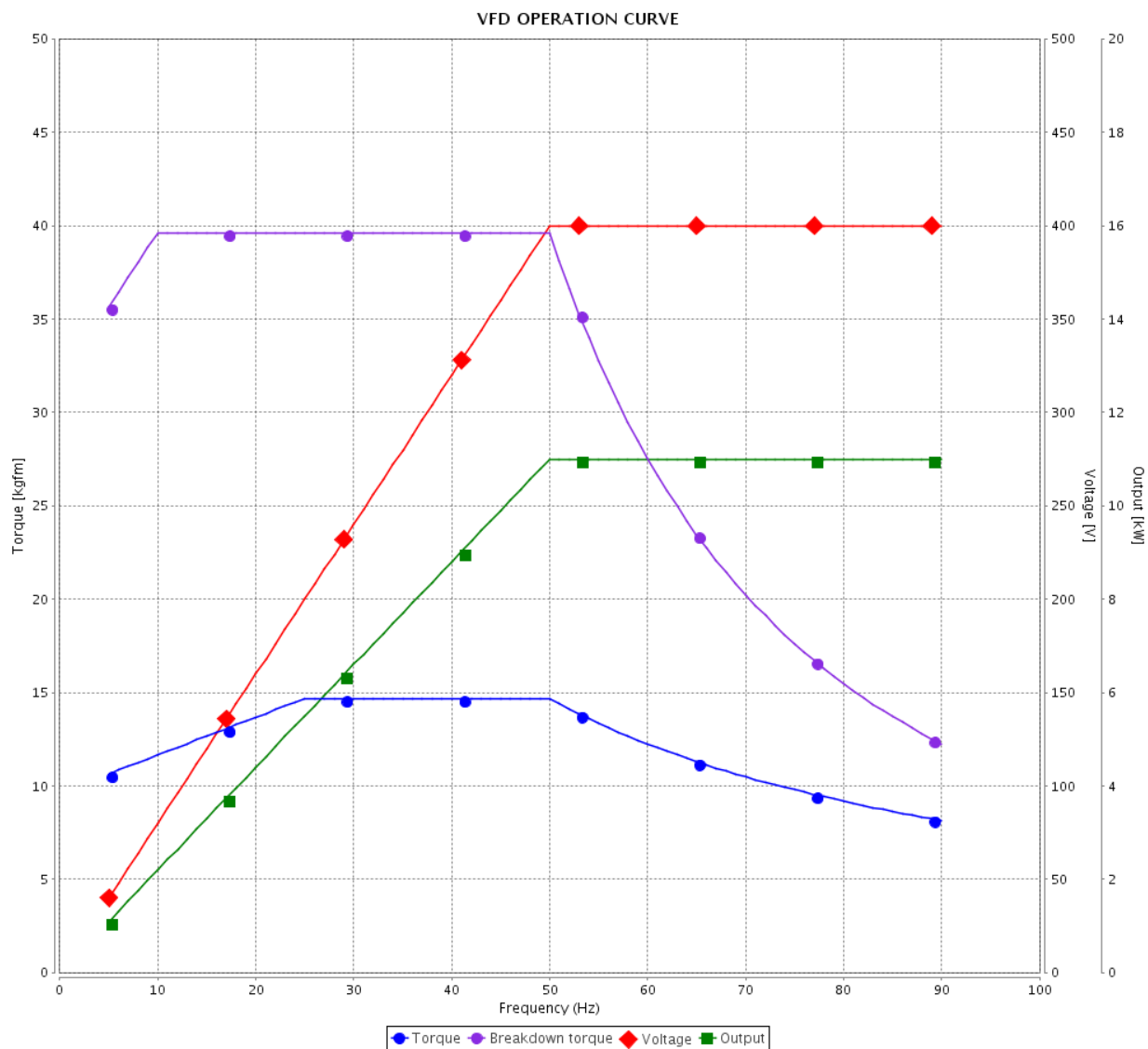
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12863155



Performance : 400/690 V 50 Hz 8P

Rated current : 23.3/13.5 A  
 LRC : 6.5  
 Rated torque : 14.7 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 270 %  
 Rated speed : 730 rpm

Moment of inertia (J) : 0.2846 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

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