

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862356
Frame	: 90L	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 2.2 kW	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/400 V	Altitude	: 1000 m.a.s.l.
Rated current	: 7.70/4.43 A	Protection degree	: IP55
L. R. Amperes	: 57.8/33.2 A	Cooling method	: IC411 - TEFC
LRC	: 7.5	Mounting	: B3T
No load current	: 3.30/1.90 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 2865 rpm	Noise level <sup>2</sup>	: 62.0 dB(A)
Slip	: 4.50 %	Starting method	: Direct On Line
Rated torque	: 0.748 kgfm	Approx. weight <sup>3</sup>	: 24.4 kg
Locked rotor torque	: 310 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0026 kgm <sup>2</sup>		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	85.5	86.0	86.3
Power Factor	0.65	0.77	0.83
Foundation loads			
Max. traction		: 61 kgf	
Max. compression		: 85 kgf	
Bearing type		: Drive end	: Non drive end
Sealing		: 6205 ZZ	: 6204 ZZ
Lubrication interval		: V'Ring	: V'Ring
Lubricant amount		: -	: -
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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# VFD OPERATION CURVE

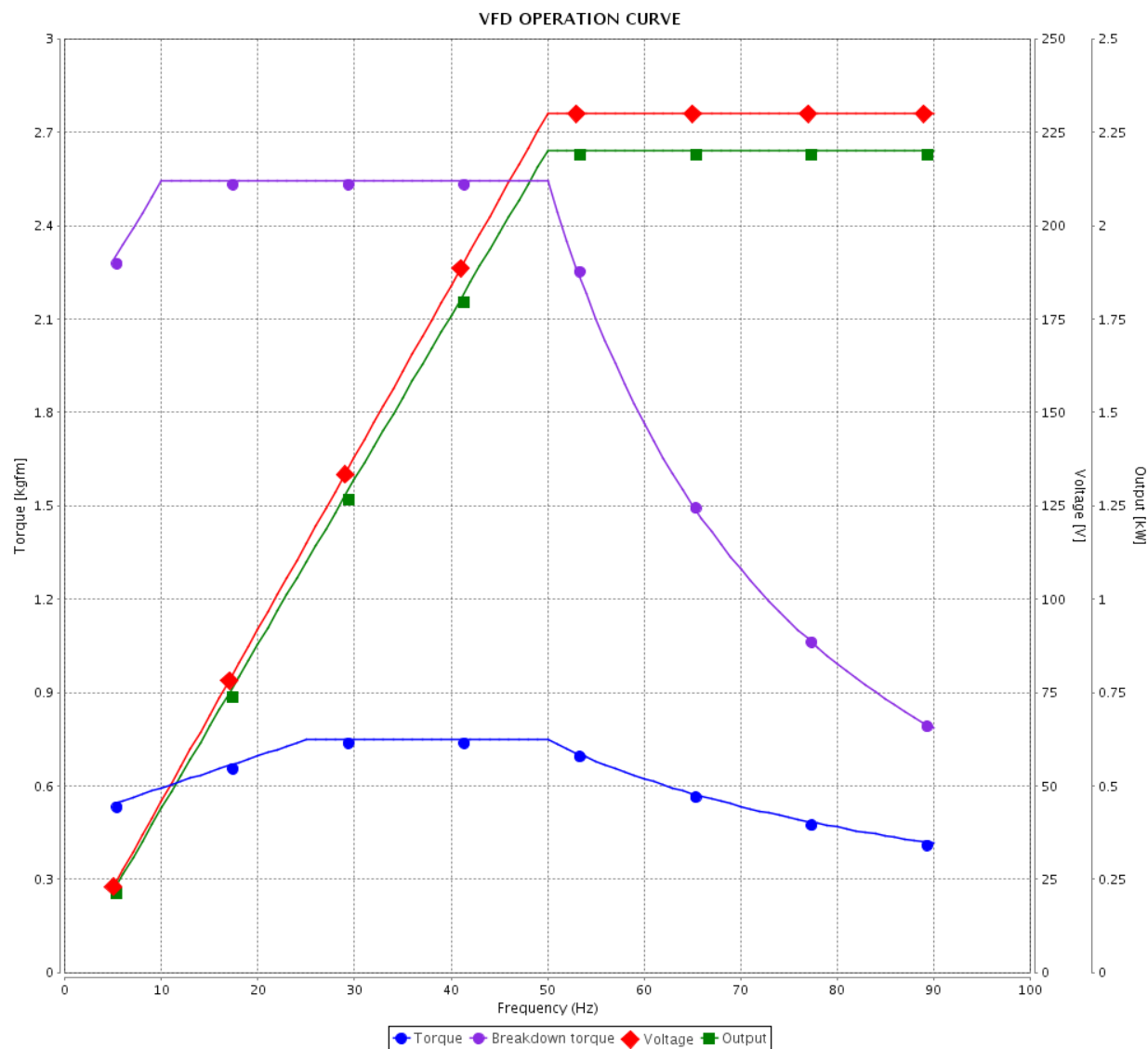
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862356



Performance : 230/400 V 50 Hz 2P

Rated current : 7.70/4.43 A  
 LRC : 7.5  
 Rated torque : 0.748 kgfm  
 Locked rotor torque : 310 %  
 Breakdown torque : 340 %  
 Rated speed : 2865 rpm

Moment of inertia (J) : 0.0026 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

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