

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862481
Frame	: 80	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 0.75 kW	Temperature rise	: 80 K
Poles	: 4	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	: 2.92/1.68 A	Protection degree	: IP55
L. R. Amperes	: 20.5/11.8 A	Cooling method	: IC411 - TEFC
LRC	: 7.0	Mounting	: B3T
No load current	: 1.91/1.10 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1430 rpm	Noise level <sup>2</sup>	: 44.0 dB(A)
Slip	: 4.67 %	Starting method	: Direct On Line
Rated torque	: 0.511 kgfm	Approx. weight <sup>3</sup>	: 16.7 kg
Locked rotor torque	: 320 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0032 kgm <sup>2</sup>		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	78.0	81.0	82.5
Power Factor	0.54	0.68	0.78
Foundation loads			
Max. traction		: 49 kgf	
Max. compression		: 66 kgf	
Bearing type		Drive end	Non drive end
:		6204 ZZ	6203 ZZ
Sealing		V'Ring	V'Ring
Lubrication interval		-	-
Lubricant amount		-	-
Lubricant type		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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# VFD OPERATION CURVE

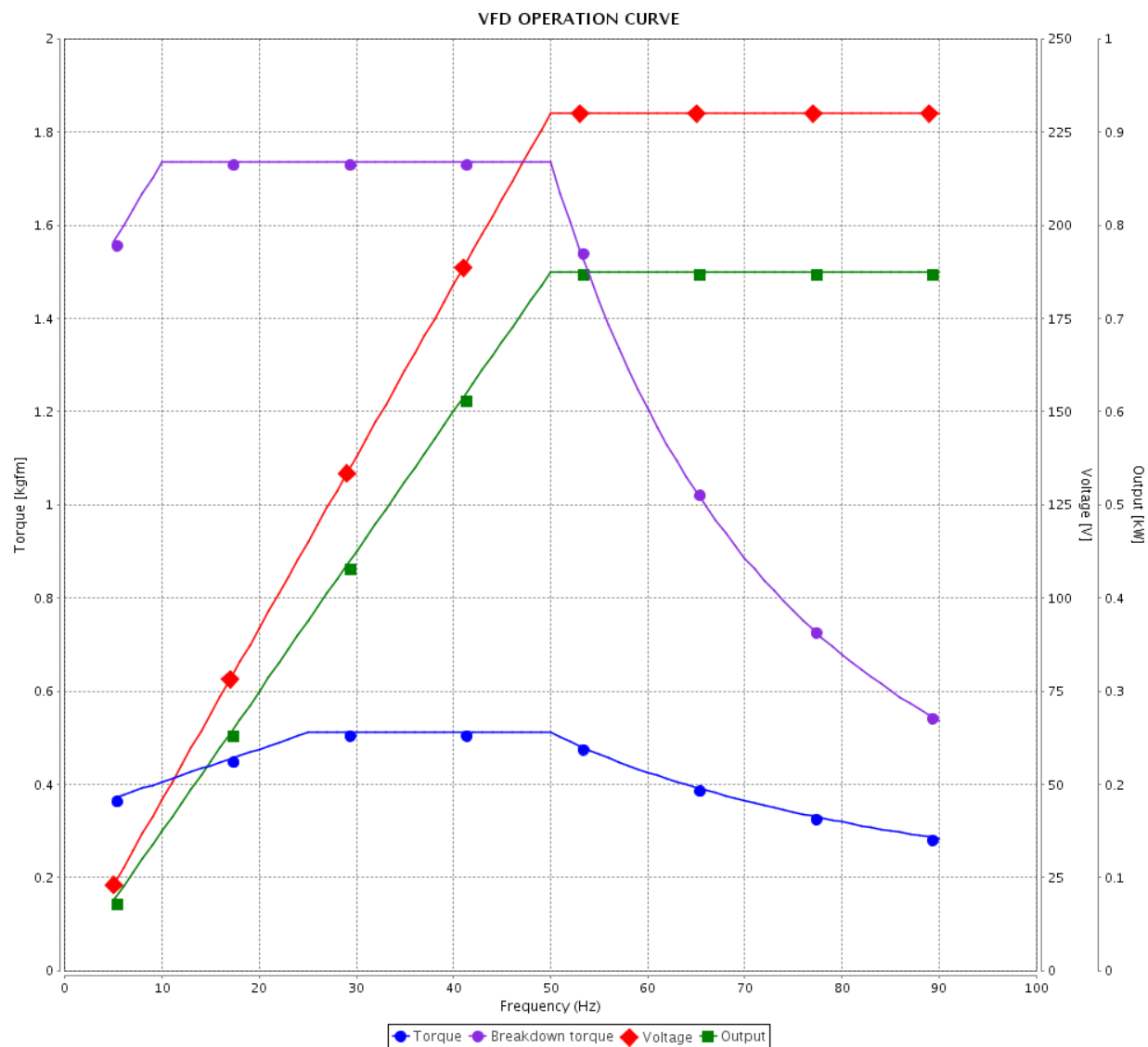
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862481



Performance : 230/400 V 50 Hz 4P

Rated current : 2.92/1.68 A  
 LRC : 7.0  
 Rated torque : 0.511 kgfm  
 Locked rotor torque : 320 %  
 Breakdown torque : 340 %  
 Rated speed : 1430 rpm

Moment of inertia (J) : 0.0032 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

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