

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862426
Frame	: 71	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 0.550 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	: 2.07/1.19 A	Protection degree	: IP55
L. R. Amperes	: 12.2/7.02 A	Cooling method	: IC411 - TEFC
LRC	: 5.9	Mounting	: B5T
No load current	: 1.04/0.600 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 2770 rpm	Noise level <sup>2</sup>	: 56.0 dB(A)
Slip	: 7.67 %	Starting method	: Direct On Line
Rated torque	: 0.189 kgfm	Approx. weight <sup>3</sup>	: 11.2 kg
Locked rotor torque	: 300 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0005 kgm <sup>2</sup>		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	75.0	76.0	77.8
Power Factor	0.68	0.81	0.86
Foundation loads			
Max. traction		: 16 kgf	
Max. compression		: 27 kgf	
		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6202 ZZ	6202 ZZ
Sealing	:	Oil Seal	Oil Seal
Lubrication interval	:	-	-
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.			
Rev.	Changes Summary		Performed
			Checked
			Date
Performed by			
Checked by			
Date	26/06/2019		
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# VFD OPERATION CURVE

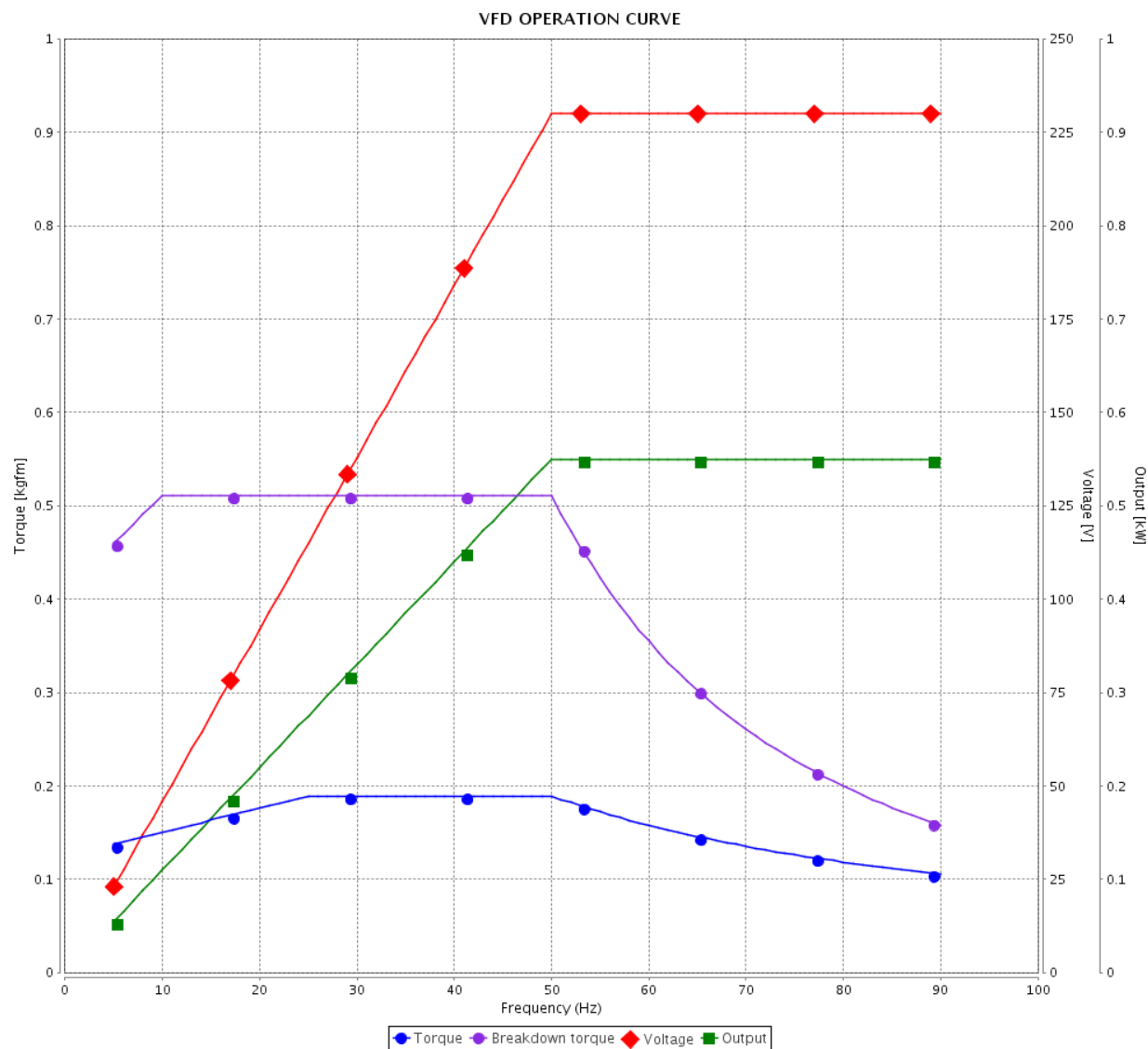
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862426



Performance : 230/400 V 50 Hz 2P

Rated current : 2.07/1.19 A  
 LRC : 5.9  
 Rated torque : 0.189 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 300 %  
 Rated speed : 2770 rpm

Moment of inertia (J) : 0.0005 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

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