

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12863054
Frame	: 112M	Locked rotor time	: 50s (cold) 28s (hot)
Output	: 1.5 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	: 3.98/2.31 A	Protection degree	: IP55
L. R. Amperes	: 19.9/11.5 A	Cooling method	: IC411 - TEFC
LRC	: 5.0	Mounting	: B3T
No load current	: 2.50/1.45 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 705 rpm	Noise level <sup>2</sup>	: 46.0 dB(A)
Slip	: 6.00 %	Starting method	: Direct On Line
Rated torque	: 2.07 kgfm	Approx. weight <sup>3</sup>	: 43.7 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0238 kgm <sup>2</sup>		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	79.0	79.5	79.9
Power Factor	0.45	0.59	0.68
Foundation loads			
Max. traction		: 96 kgf	
Max. compression		: 140 kgf	
Bearing type		: Drive end	: Non drive end
Sealing		: 6207 ZZ	: 6206 ZZ
Lubrication interval		: V'Ring	: V'Ring
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>			
<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.</p>			
Rev.	Changes Summary		Performed
Performed by			Checked
Checked by			Date
Date	27/06/2019		Page
			Revision
			1 / 2

# VFD OPERATION CURVE

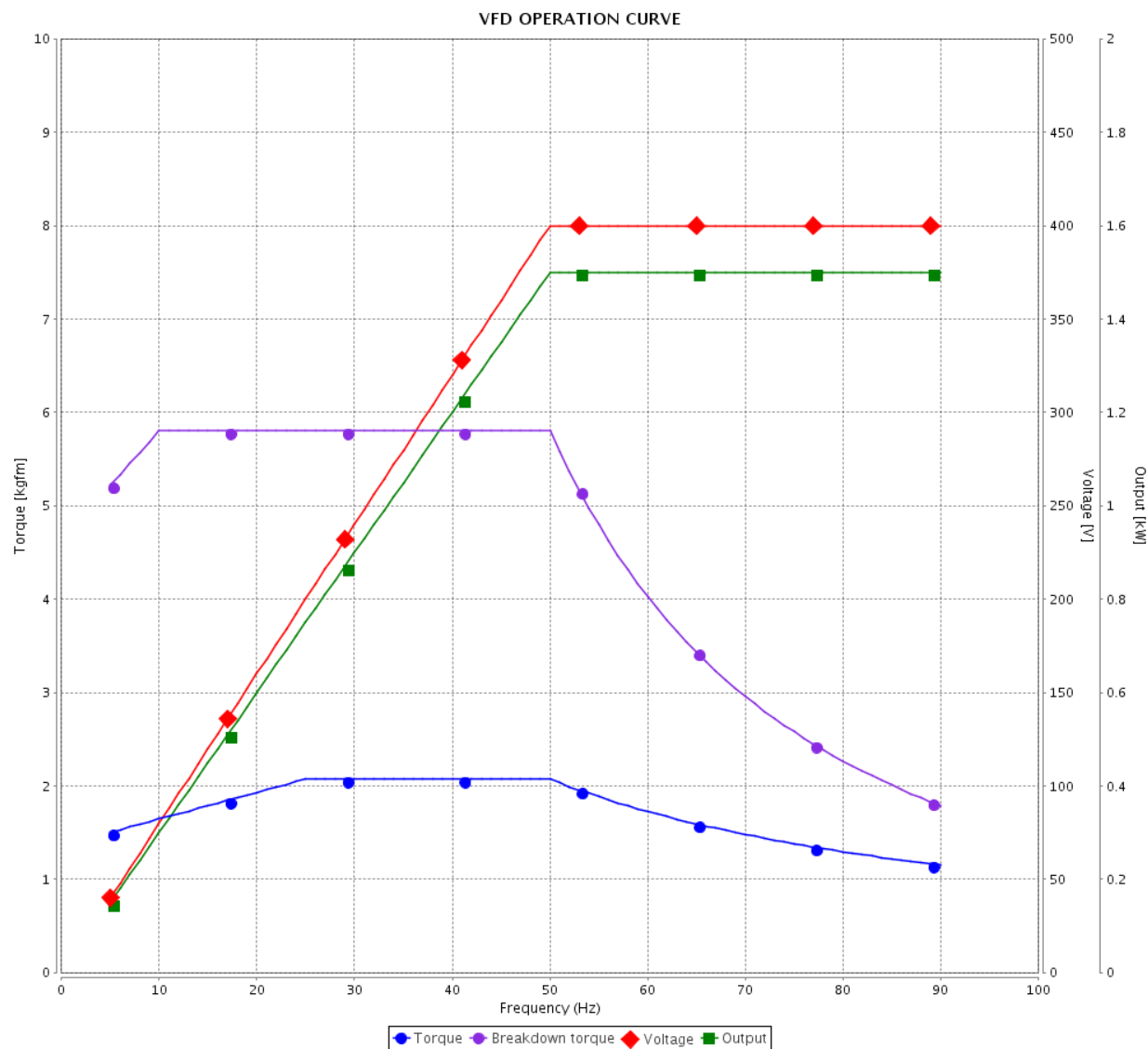
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12863054



Performance : 400/690 V 50 Hz 8P

Rated current : 3.98/2.31 A  
 LRC : 5.0  
 Rated torque : 2.07 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 280 %  
 Rated speed : 705 rpm

Moment of inertia (J) : 0.0238 kgm<sup>2</sup>  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2Revision		
Checked by				
Date	27/06/2019			