

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862485
Frame	: L100L	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 3 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	: 10.7/6.15 A	Protection degree	: IP55
L. R. Amperes	: 83.4/48.0 A	Cooling method	: IC411 - TEFC
LRC	: 7.8	Mounting	: B3T
No load current	: 5.74/3.30 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1440 rpm	Noise level ²	: 53.0 dB(A)
Slip	: 4.00 %	Starting method	: Direct On Line
Rated torque	: 2.03 kgfm	Approx. weight ³	: 40.3 kg
Locked rotor torque	: 390 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0120 kgm ²		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	87.0	88.0	88.0
Power Factor	0.60	0.73	0.80
Foundation loads			
Max. traction		: 143 kgf	
Max. compression		: 183 kgf	
Bearing type		Drive end	Non drive end
Sealing		6206 ZZ	6205 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

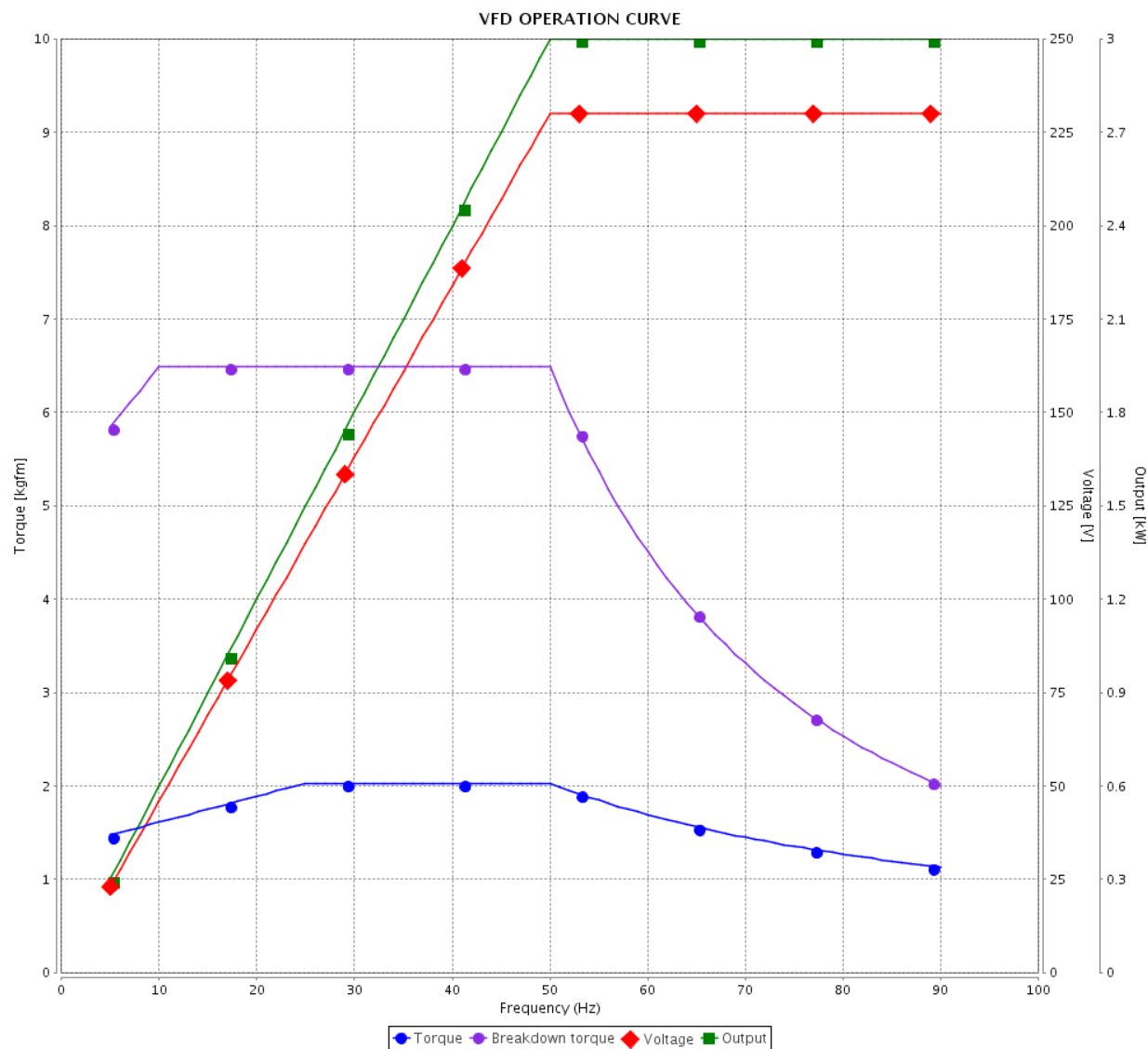
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862485



Performance : 230/400 V 50 Hz 4P

Rated current : 10.7/6.15 A
 LRC : 7.8
 Rated torque : 2.03 kgfm
 Locked rotor torque : 390 %
 Breakdown torque : 320 %
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0120 kgm²
 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	Revision
Checked by				2 / 2	
Date					