

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862430
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	: B5T
No load current	: 3.30/1.90 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2865 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 4.50 %	Starting method	: Direct On Line
Rated torque	: 0.748 kgfm	Approx. weight ³	: 24.7 kg
Locked rotor torque	: 310 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0026 kgm ²		
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		: 86 kgf	
		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	6204 ZZ
Sealing	:	Oil Seal	Oil Seal
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>			
<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
			Checked
			Date
Performed by			
Checked by			
Date	26/06/2019		
		Page	Revision
		1 / 2	

VFD OPERATION CURVE

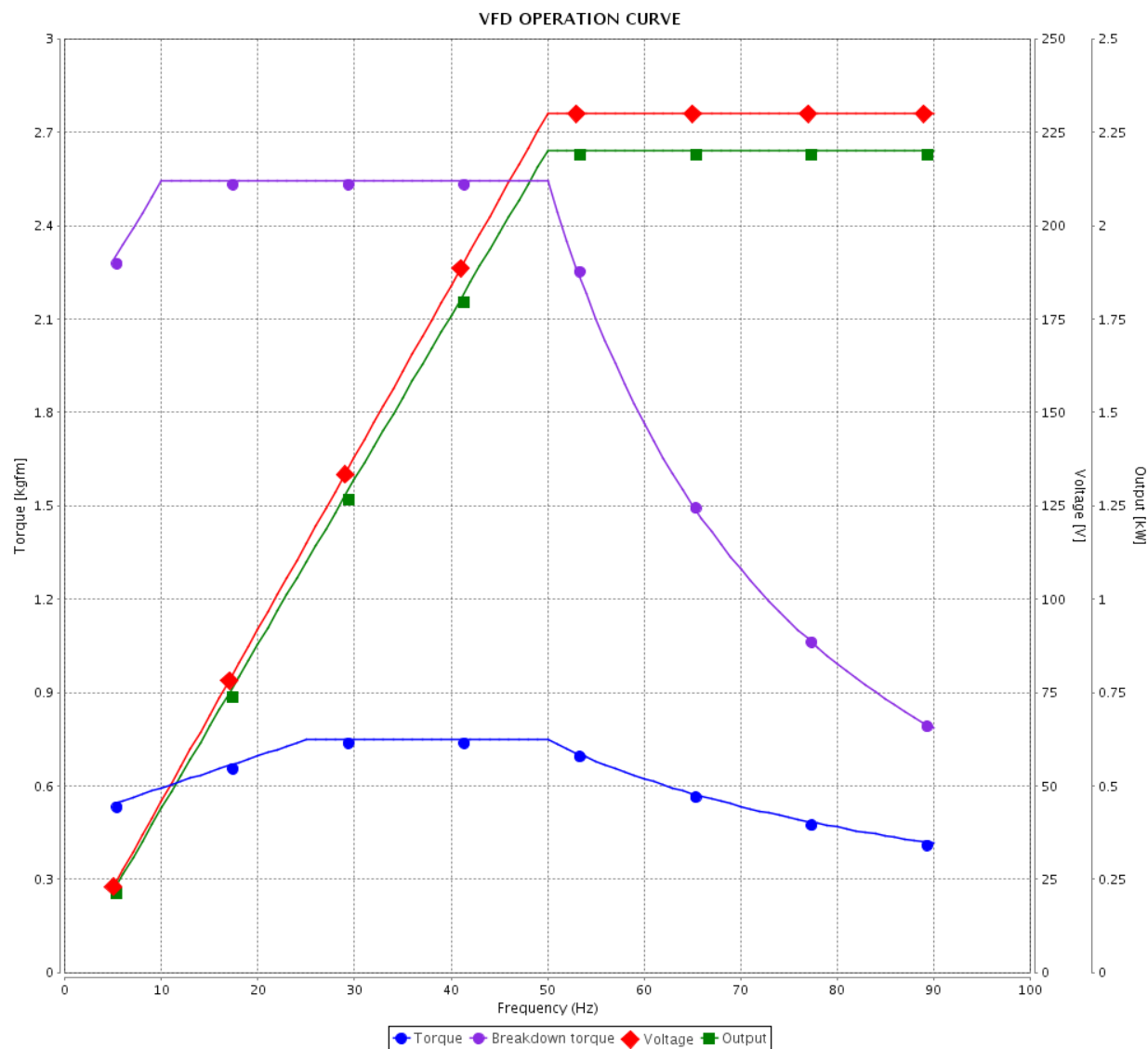
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862430



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 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					