

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862432
Frame	: 112M	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 4 kW	Temperature rise	: 80 K
Poles	: 2	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	: 7.59/4.40 A	Protection degree	: IP55
L. R. Amperes	: 58.4/33.9 A	Cooling method	: IC411 - TEFC
LRC	: 7.7	Mounting	: B5T
No load current	: 3.10/1.80 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 2900 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 1.34 kgfm	Approx. weight ³	: 43.7 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0081 kgm ²		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	88.0	88.4	88.4
Power Factor	0.69	0.80	0.86
Foundation loads			
Max. traction		: 78 kgf	
Max. compression		: 122 kgf	
Drive end Non drive end			
Bearing type	: 6207 ZZ	6206 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
Performed by			
Checked by			
Date	26/06/2019		
		Page	Revision
		1 / 2	

VFD OPERATION CURVE

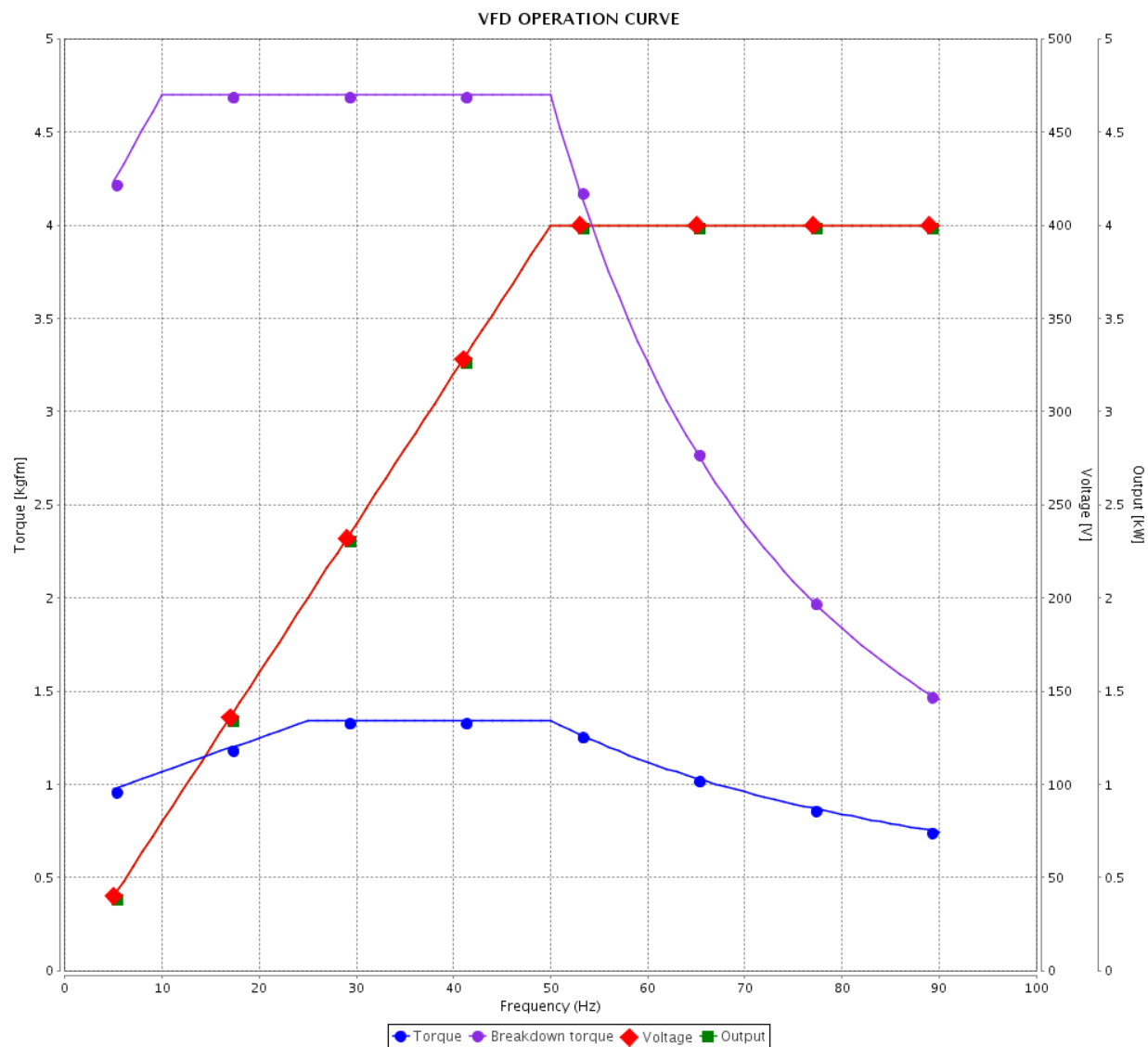
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862432



Performance : 400/690 V 50 Hz 2P

Rated current : 7.59/4.40 A
 LRC : 7.7
 Rated torque : 1.34 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 350 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0081 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					