

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862533
Frame	: 160M	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 11 kW	Temperature rise	: 80 K
Poles	: 4	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	: 20.9/12.1 A	Protection degree	: IP55
L. R. Amperes	: 157/90.9 A	Cooling method	: IC411 - TEFC
LRC	: 7.5	Mounting	: B5T
No load current	: 10.0/5.80 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1470 rpm	Noise level ²	: 61.0 dB(A)
Slip	: 2.00 %	Starting method	: Direct On Line
Rated torque	: 7.29 kgfm	Approx. weight ³	: 129 kg
Locked rotor torque	: 280 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1191 kgm ²		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	91.1	91.8	91.6
Power Factor	0.65	0.77	0.83
Foundation loads			
Max. traction		: 286 kgf	
Max. compression		: 416 kgf	
Bearing type		Drive end	Non drive end
Sealing		6309 C3	6209 Z C3
Lubrication interval		Oil Seal	Oil Seal
Lubricant amount		20000 h	20000 h
Lubricant type		13 g	9 g
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
Performed by			Checked
Checked by			Date
Date	27/06/2019		
Page		Revision	
1 / 3			

Customer : IDS

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 3	
Date	27/06/2019				

VFD OPERATION CURVE

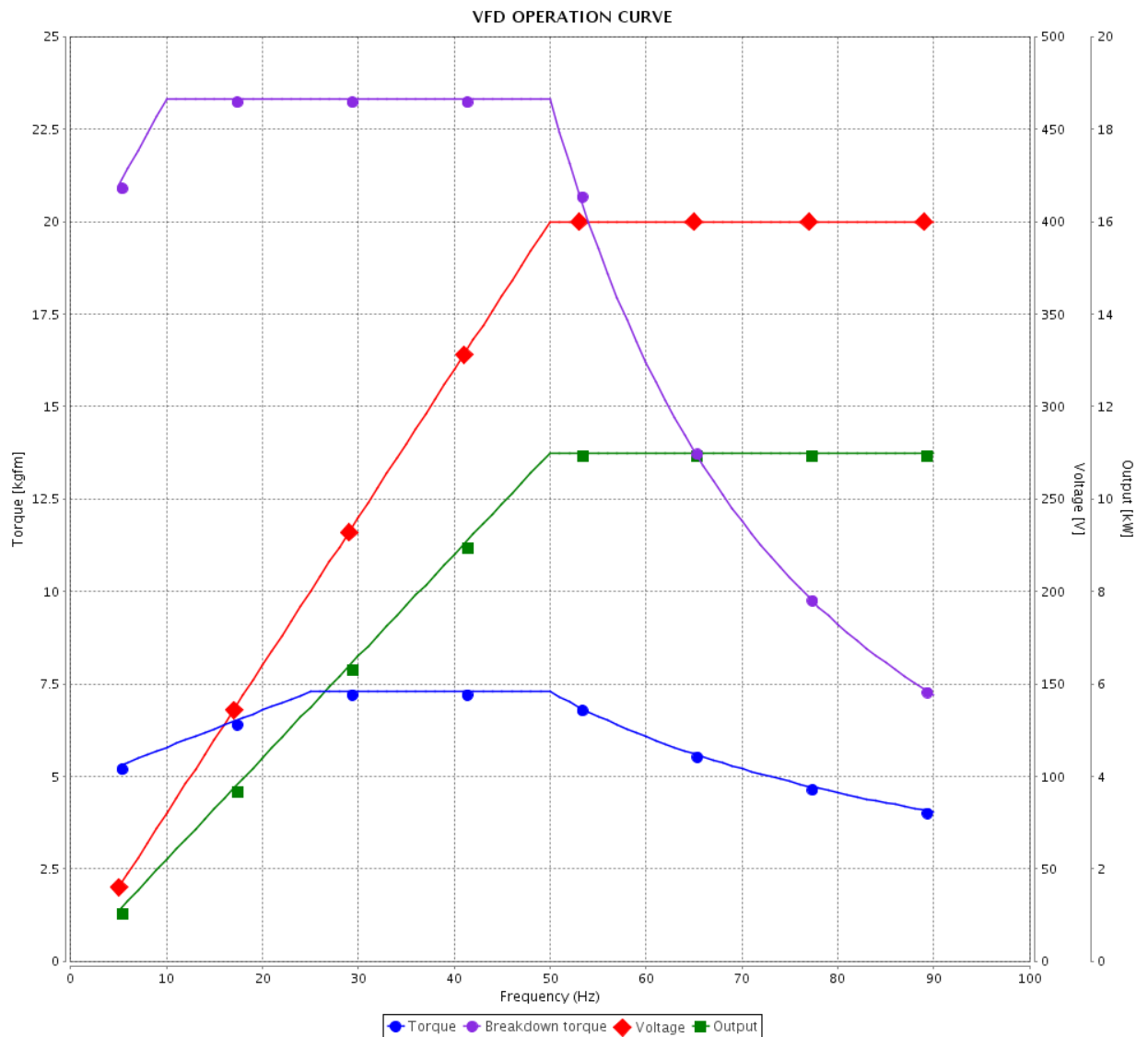
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862533



Performance : 400/690 V 50 Hz 4P

Rated current : 20.9/12.1 A
 LRC : 7.5
 Rated torque : 7.29 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 320 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.1191 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 3 / 3Revision		
Checked by				
Date	27/06/2019			