

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862438
Frame : 160L Output : 18.5 kW Poles : 2 Frequency : 50 Hz Rated voltage : 400/690 V Rated current : 33.9/19.7 A L. R. Amperes : 292/169 A LRC : 8.6 No load current : 15.2/8.79 A Rated speed : 2945 rpm Slip : 1.83 % Rated torque : 6.12 kgfm Locked rotor torque : 310 % Breakdown torque : 370 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 0.0663 kgm ² Design : N	Locked rotor time : 10s (cold) 6s (hot) Temperature rise : 80 K Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : B5T Rotation ¹ : Both (CW and CCW) Noise level ² : 67.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 141 kg		
Output	50%	75%	100%
Efficiency (%)	91.5	92.3	92.6
Power Factor	0.69	0.80	0.85
Foundation loads		Max. traction : 272 kgf Max. compression : 413 kgf	
Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :		Drive end 6309 C3 Oil Seal 20000 h 13 g Mobil Polyrex EM	
		Non drive end 6209 Z C3 Oil Seal 20000 h 9 g	
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	26/06/2019		Page 1 / 3
		Revision	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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	26/06/2019				

VFD OPERATION CURVE

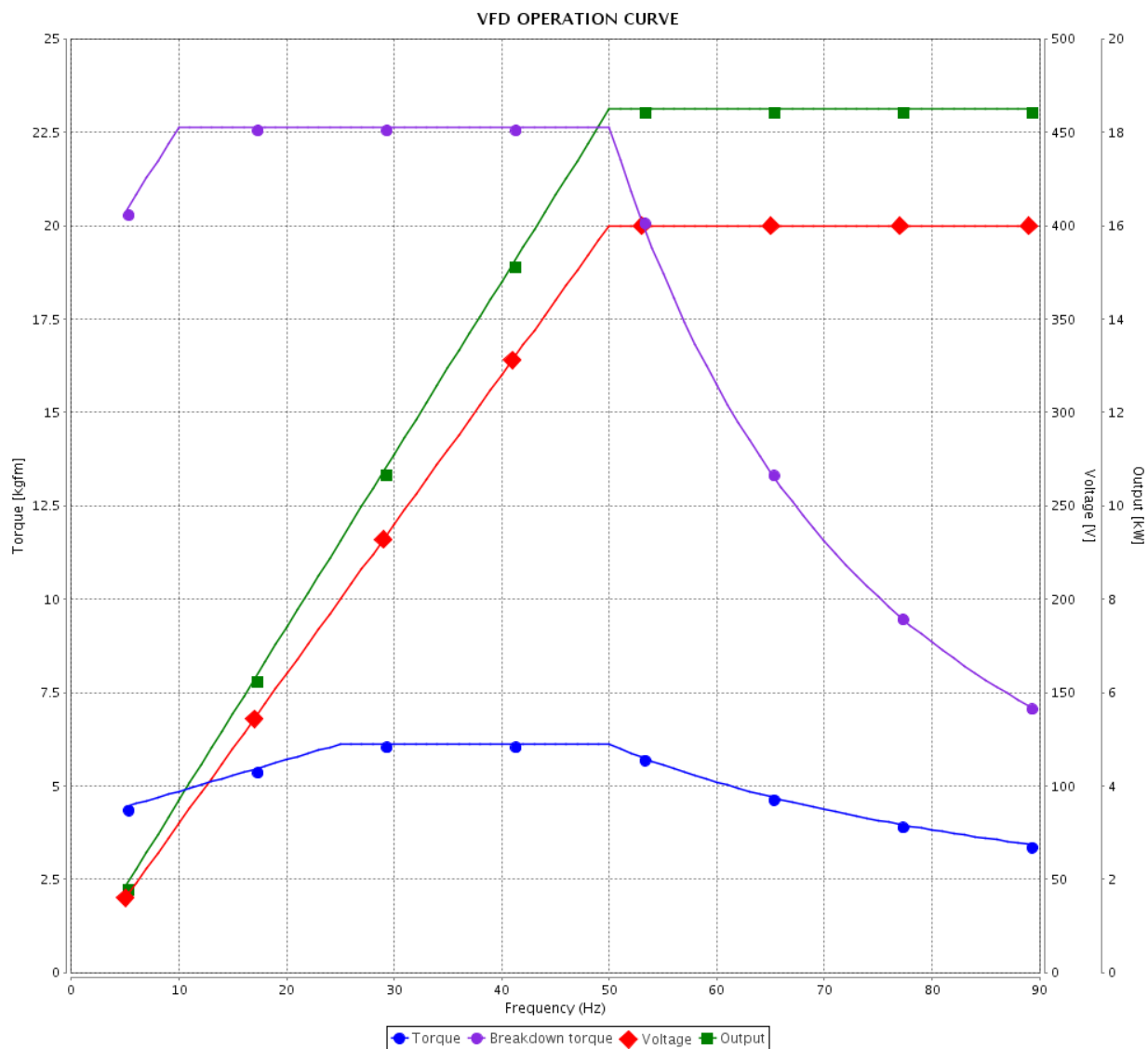
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862438



Performance : 400/690 V 50 Hz 2P

Rated current : 33.9/19.7 A
 LRC : 8.6
 Rated torque : 6.12 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 370 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.0663 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	26/06/2019			