

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: IDS					
Product line		: W22 IE3 Three-Phase		Product code : 12862395			
Frame		: 180M		Locked rotor time		: 10s (cold) 6s (hot)	
Output		: 22 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		: 39.7/23.0 A		Protection degree		: IP55	
L. R. Amperes		: 330/191 A		Cooling method		: IC411 - TEFC	
LRC		: 8.3		Mounting		: B3T	
No load current		: 16.9/9.81 A		Rotation ¹		: Both (CW and CCW)	
Rated speed		: 2950 rpm		Noise level ²		: 67.0 dB(A)	
Slip		: 1.67 %		Starting method		: Direct On Line	
Rated torque		: 7.26 kgfm		Approx. weight ³		: 169 kg	
Locked rotor torque		: 270 %					
Breakdown torque		: 360 %					
Insulation class		: F					
Service factor		: 1.00					
Moment of inertia (J)		: 0.0968 kgm²					
Design		: N					
Output		50%	75%	100%	Foundation loads		
Efficiency (%)		92.3	93.0	92.9	Max. traction : 270 kgf		
Power Factor		0.69	0.80	0.86	Max. compression : 438 kgf		
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type		:	6311 C3	6211 Z C3			
Sealing		:	V'Ring	V'Ring			
Lubrication interval		:	17000 h	20000 h			
Lubricant amount		:	18 g	11 g			
Lubricant type		:	Mobil Polyrex EM				
Notes							

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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	25/06/2019				

VFD OPERATION CURVE

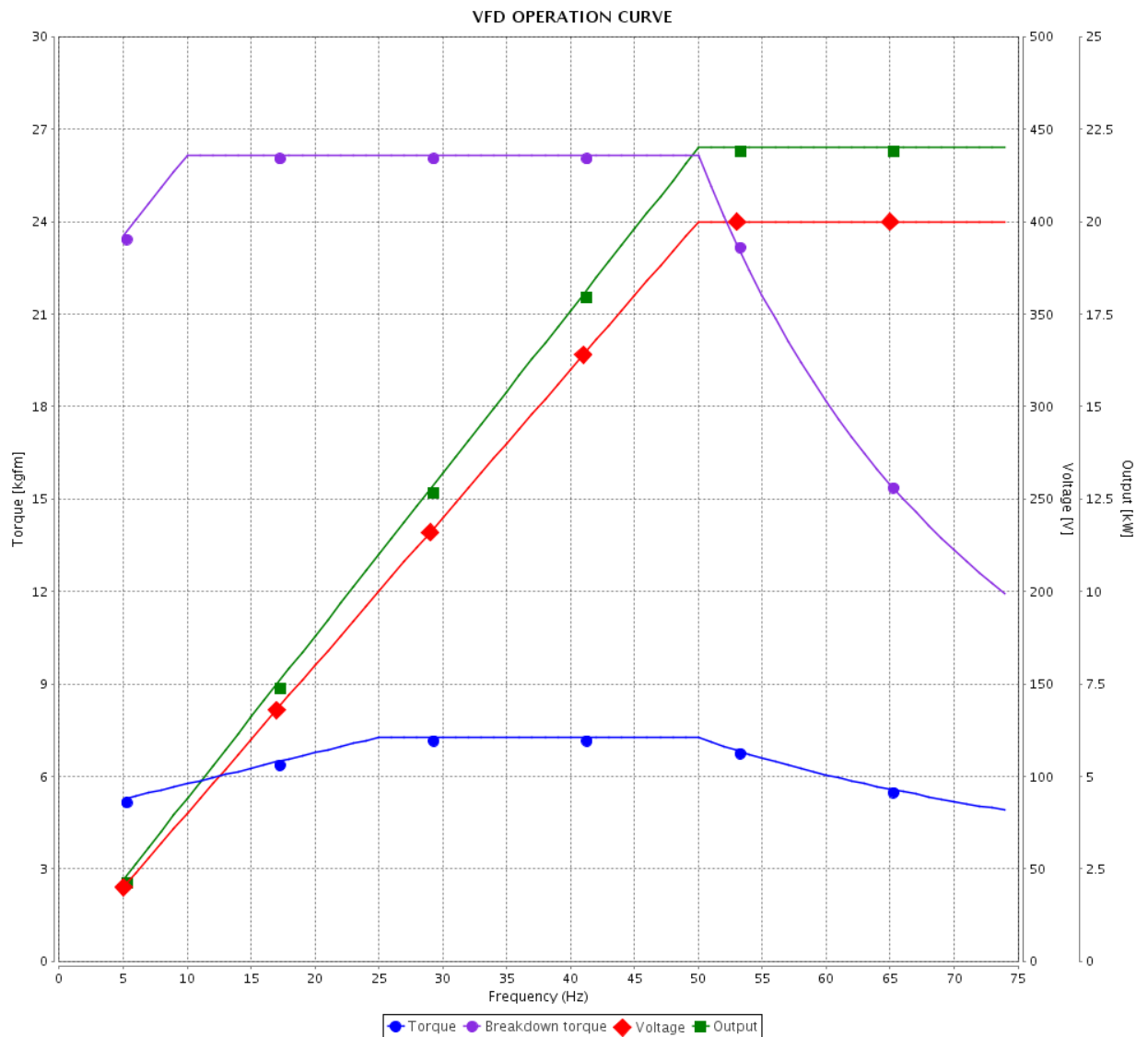
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Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862395



Performance : 400/690 V 50 Hz 2P

Rated current : 39.7/23.0 A
 LRC : 8.3
 Rated torque : 7.26 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 360 %
 Rated speed : 2950 rpm

Moment of inertia (J) : 0.0968 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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Performed by		Page 3 / 3		
Checked by				
Date	25/06/2019			
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