

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer		: IDS			
Product line		: W22 IE3 Three-Phase		Product code :	12862393
Frame	:	160M	Locked rotor time	:	14s (cold) 8s (hot)
Output	:	15 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	:	27.7/16.1 A	Protection degree	:	IP55
L. R. Amperes	:	230/133 A	Cooling method	:	IC411 - TEFC
LRC	:	8.3	Mounting	:	B3T
No load current	:	12.8/7.45 A	Rotation ¹	:	Both (CW and CCW)
Rated speed	:	2945 rpm	Noise level ²	:	67.0 dB(A)
Slip	:	1.83 %	Starting method	:	Direct On Line
Rated torque	:	4.96 kgfm	Approx. weight ³	:	121 kg
Locked rotor torque	:	280 %			
Breakdown torque	:	350 %			
Insulation class	:	F			
Service factor	:	1.00			
Moment of inertia (J)	:	0.0551 kgm²			
Design	:	N			
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	90.9	91.8	92.1	Max. traction	: 205 kgf
Power Factor	0.67	0.79	0.85	Max. compression	: 326 kgf
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6309 C3	6209 Z C3		
Sealing	:	V'Ring	V'Ring		
Lubrication interval	:	20000 h	20000 h		
Lubricant amount	:	13 g	9 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 2 / 3	Revision
Checked by					
Date	25/06/2019				

VFD OPERATION CURVE

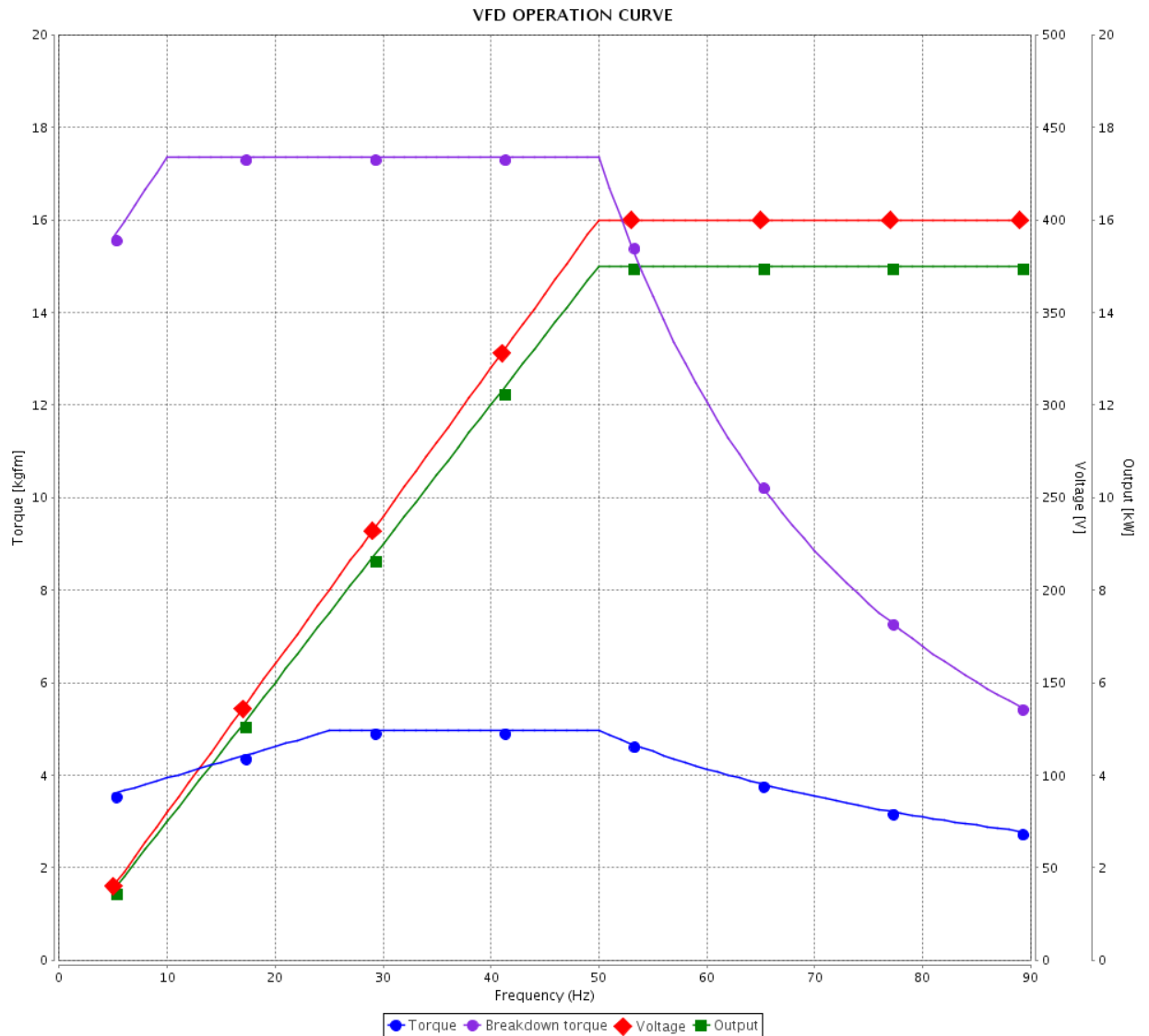
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Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862393



Performance : 400/690 V 50 Hz 2P

Rated current : 27.7/16.1 A
 LRC : 8.3
 Rated torque : 4.96 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 350 %
 Rated speed : 2945 rpm

Moment of inertia (J) : 0.0551 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 / 3		
Checked by				
Date	25/06/2019			
		Revision		