

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		: IDS	
Product line		: W22 IE3 Three-Phase	Product code : 12862899
Frame	: 160M	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 7.5 kW	Temperature rise	: 80 K
Poles	: 6	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	: 14.8/8.58 A	Protection degree	: IP55
L. R. Amperes	: 93.2/54.1 A	Cooling method	: IC411 - TEFC
LRC	: 6.3	Mounting	: B5T
No load current	: 7.20/4.17 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 975 rpm	Noise level ²	: 57.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 7.49 kgfm	Approx. weight ³	: 123 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1404 kgm ²		
Design	: N		
Output	50%	75%	100%
Efficiency (%)	88.5	89.3	89.3
Power Factor	0.64	0.76	0.82
Foundation loads			
Max. traction		: 250 kgf	
Max. compression		: 373 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			
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>			
This revision replaces and cancel the previous one, which must be eliminated.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.	
Rev.	Changes Summary		Date
Performed by	Checked		Page
Checked by	Revision		1 / 3
Date	27/06/2019		

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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	27/06/2019				

VFD OPERATION CURVE

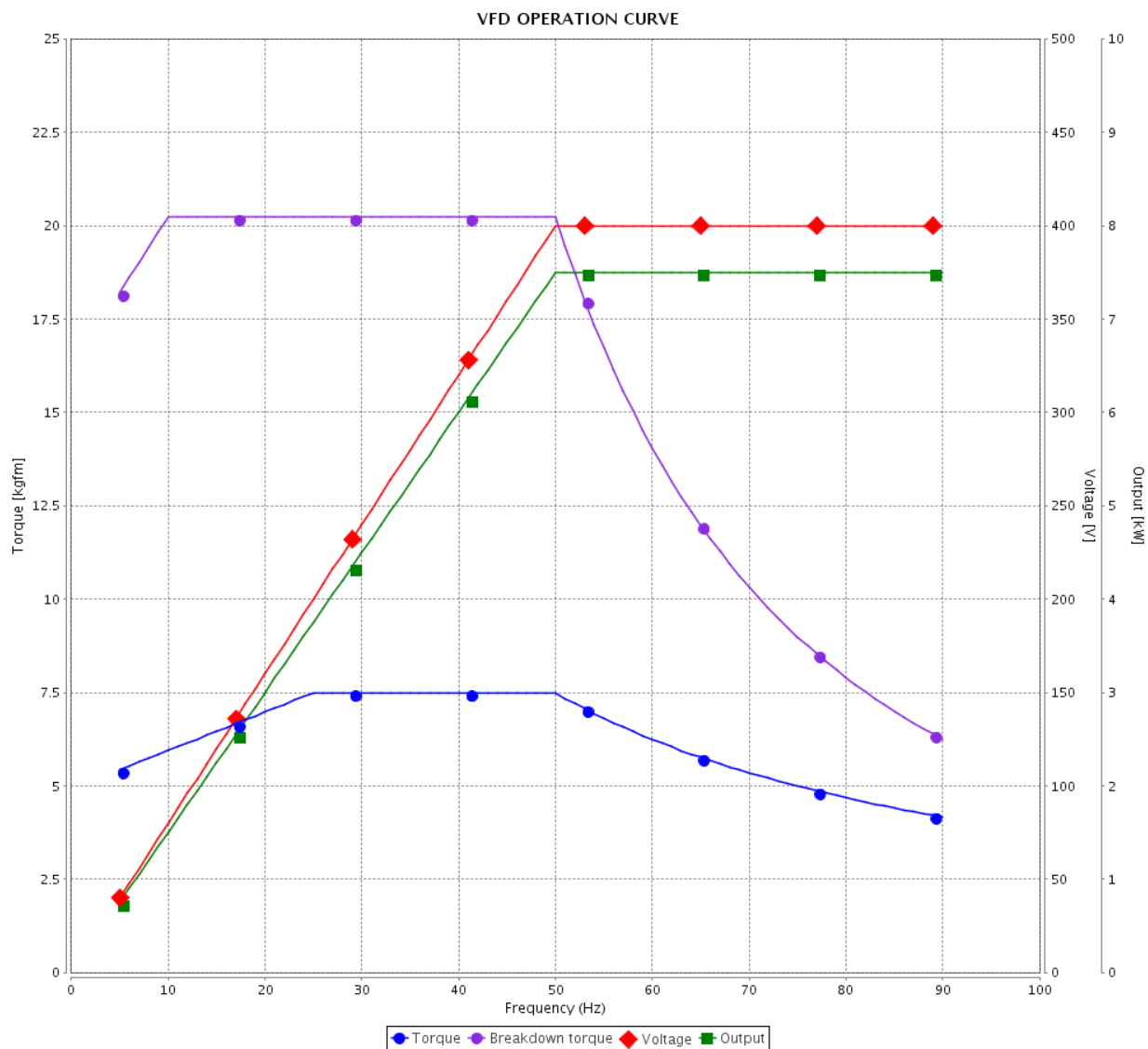
Three Phase Induction Motor - Squirrel Cage



Customer : IDS

Product line : W22 IE3 Three-Phase

Product code : 12862899



Performance : 400/690 V 50 Hz 6P

Rated current : 14.8/8.58 A
 LRC : 6.3
 Rated torque : 7.49 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 270 %
 Rated speed : 975 rpm

Moment of inertia (J) : 0.1404 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	27/06/2019			
		Revision		