

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 IE3 Three-Phase		Product code : 12863316				
Frame	: 160L	Locked rotor time	: 39s (cold) 22s (hot)			
Output	: 7.5 kW	Temperature rise	: 80 K			
Poles	: 8	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	: 18.0/10.4 A	Protection degree	: IP55			
L. R. Amperes	: 99.0/57.4 A	Cooling method	: IC411 - TEFC			
LRC	: 5.5	Mounting	: B5T			
No load current	: 12.0/6.96 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 731 rpm	Noise level ²	: 51.0 dB(A)			
Slip	: 2.53 %	Starting method	: Direct On Line			
Rated torque	: 98.0 Nm	Approx. weight ³	: 157 kg			
Locked rotor torque	: 220 %					
Breakdown torque	: 250 %					
Insulation class	: F					
Service factor	: 1.00					
Moment of inertia (J)	: 0.2199 kgm ²					
Design	: N					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	86.5	88.0	88.4	Max. traction	: 3313 N	
Power Factor	0.46	0.59	0.68	Max. compression	: 4856 N	
		<u>Drive end</u>	<u>Non drive end</u>			
Bearing type	:	6309 ZZ C3	6209 ZZ C3			
Sealing	:	Oil Seal	Lip Seal			
Lubrication interval	:	-	-			
Lubricant amount	:	-	-			
Lubricant type	:	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.			
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Thermal protection

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

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TORQUE AND CURRENT VS SPEED CURVE

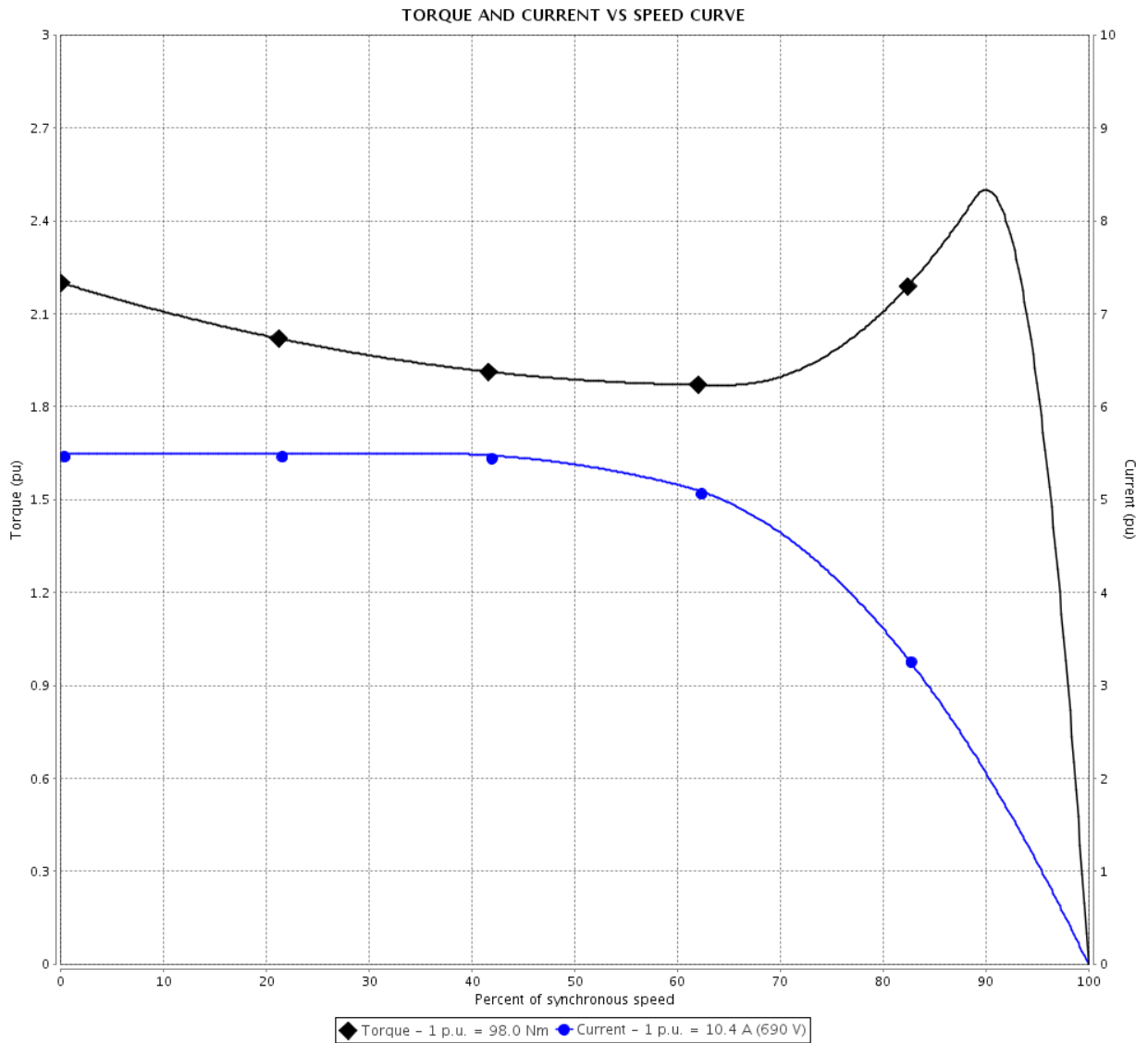
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase

Product code : 12863316



Performance : 400/690 V 50 Hz 8P

Rated current	: 18.0/10.4 A	Moment of inertia (J)	: 0.2199 kgm ²
LRC	: 5.5	Duty cycle	: S1
Rated torque	: 98.0 Nm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 731 rpm	Design	: N

Locked rotor time : 39s (cold) 22s (hot)

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