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	Rotation¹	: Both (CW and CCW)
Rated speed	: 731 rpm	Noise level²	: 51.0 dB(A)
Slip	: 2.53 %	Starting method	: Direct On Line
Rated torque	: 98.0 Nm	Approx. weight³	: 157 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.2199 kgm²		
Design	: N		

Output	50%	75%	100%
Efficiency (%)	86.5	88.0	88.4
Power Factor	0.46	0.59	0.68

Foundation loads	
Max. traction	: 3313 N
Max. compression	: 4856 N

		Drive end	Non drive end
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.

Rev.	Changes Summary	Performed	Checked	Date

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Customer :

Thermal protection

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

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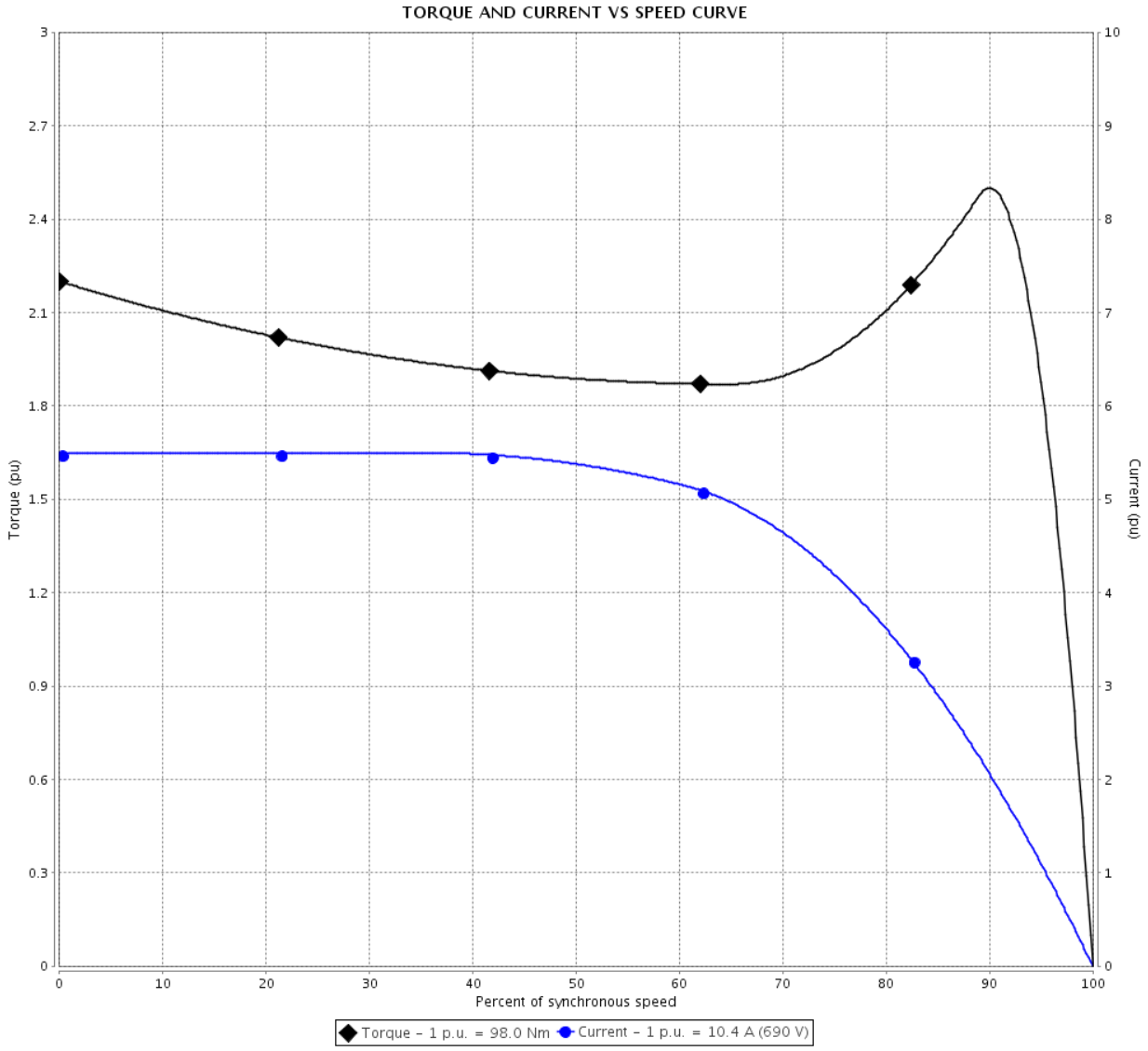
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TORQUE AND CURRENT VS SPEED CURVE

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 kgm²
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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