

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : ### #####

Product line : W22Xdb IE3 Three-Phase Product code : 15546092

Frame	: 160M/L	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 11 kW (15 HP)	Temperature rise	: 80 K
Poles	: 4	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	: 20.9/12.1 A	Protection degree	: IP56
L. R. Amperes	: 167/96.8 A	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B3T
No load current	: 9.50/5.51 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1479 rpm	Noise level ²	: 61.0 dB(A)
Slip	: 1.40 %	Starting method	: VFD
Rated torque	: 71.1 Nm	Approx. weight ³	: 196 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1191 kgm ²		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	90.7	91.6	91.4	Max. traction	: 2386 N
Power Factor	0.00	0.65	0.77	0.83	Max. compression	: 4308 N

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
9.2	8.1	7.8	4.4	3.2	2.2	1.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6308 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	11 g
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	150 °C

Space heater information

Voltage: 200 - 240 V

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TORQUE AND CURRENT VS SPEED CURVE

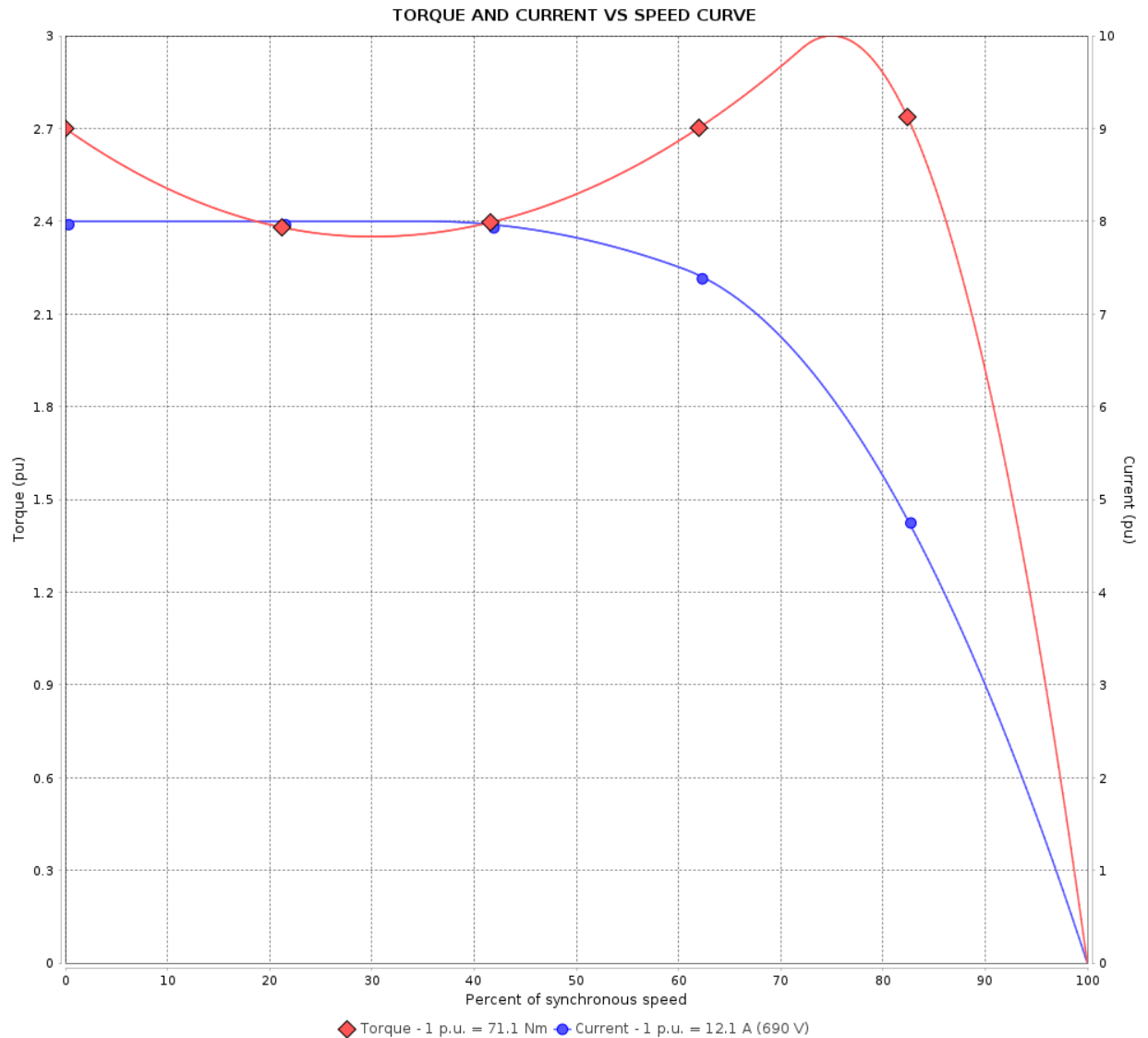
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Product code : 15546092



Performance : 400/690 V 50 Hz 4P

Rated current : 20.9/12.1 A
LRC : 8.0
Rated torque : 71.1 Nm
Locked rotor torque : 270 %
Breakdown torque : 300 %
Rated speed : 1479 rpm

Moment of inertia (J) : 0.1191 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

Locked rotor time : 19s (cold) 11s (hot)

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LOAD PERFORMANCE CURVE

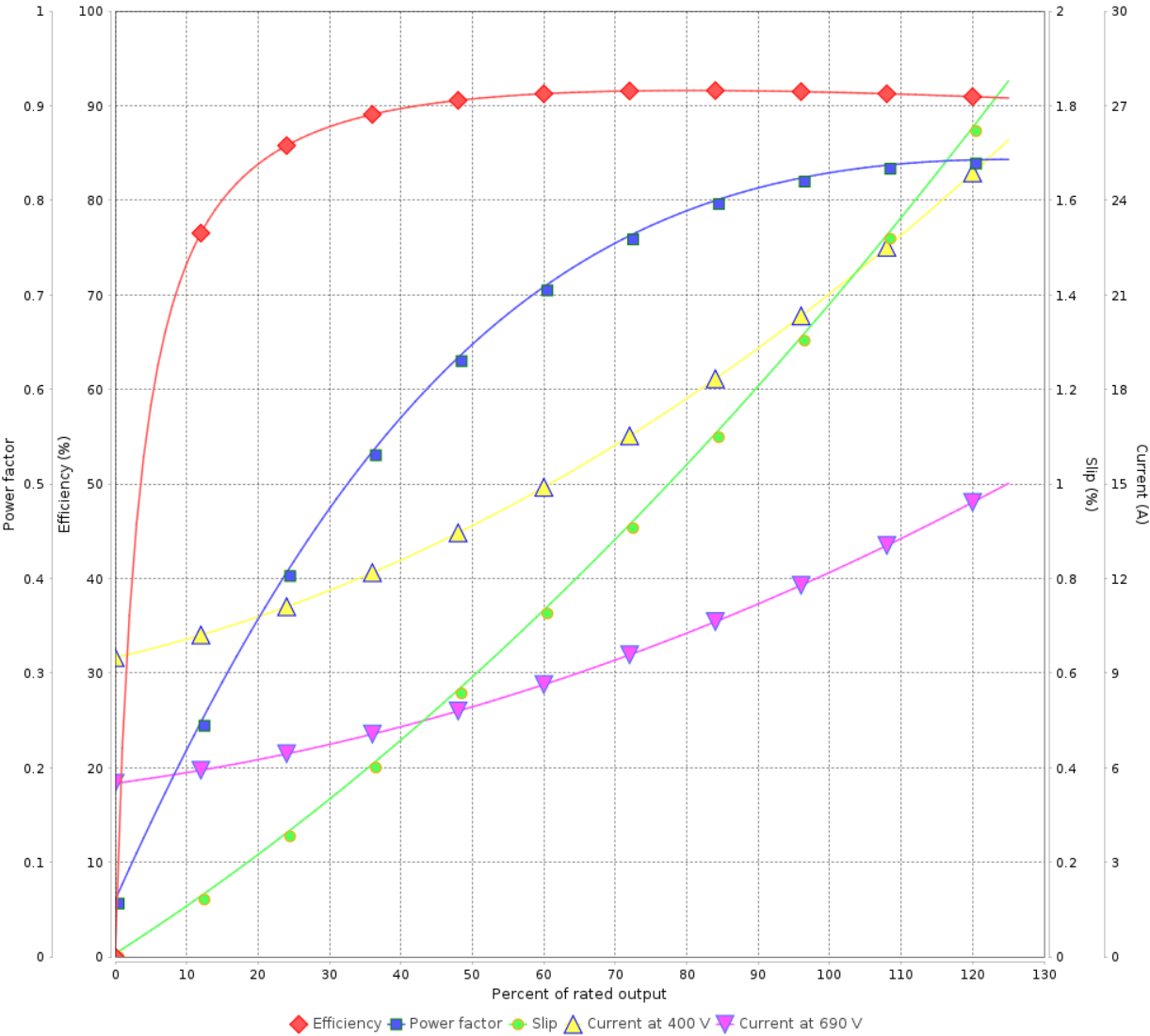
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