

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 12868138

Frame	: 132S	Locked rotor time	: 16s (cold) 9s (hot)
Output	: 7.5 kW (10 HP)	Temperature rise	: 80 K
Frequency	: 50 Hz	Duty cycle	: S1
Rated voltage	: 400/690 V	Ambient temperature	: -20°C to +40°C
Poles	: 2	Altitude	: 1000 m.a.s.l.
Rated current	: 14.1/8.19 A	Protection degree	: IP55
LRC	: 8.5	Cooling method	: IC411 - TEFC
Rated speed	: 2940 rpm	Mounting	: B5T
Rated torque	: 24.4 Nm	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 63.0 dB(A)
Service factor	: 1.00	Starting method	: Direct On Line
Moment of inertia (J)	: 0.0234 kgm ²	Approx. weight ³	: 71.1 kg
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	88.5	89.8	90.2	Max. traction	: 1034 N
Power Factor	0.68	0.80	0.85	Max. compression	: 1731 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)
10.6	9.2	8.8	5.1	3.5	2.3	1.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6207 ZZ
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

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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Customer :

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

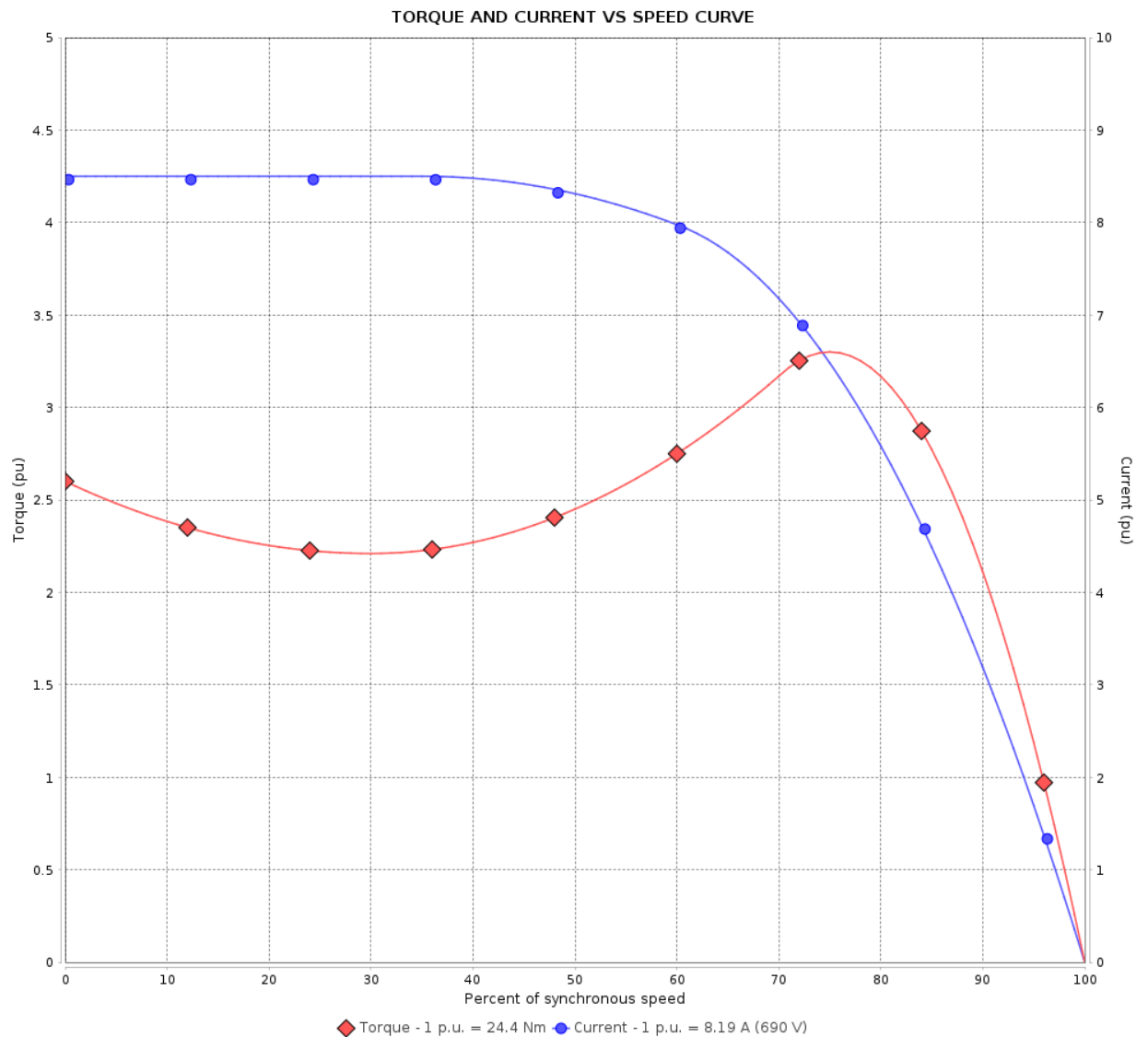
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase

Product code : 12868138



Performance : 400/690 V 50 Hz 2P

Rated current : 14.1/8.19 A
LRC : 8.5
Rated torque : 24.4 Nm
Locked rotor torque : 260 %
Breakdown torque : 330 %
Rated speed : 2940 rpm

Moment of inertia (J) : 0.0234 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.00
Duty cycle : S1

Locked rotor time : 16s (cold) 9s (hot)

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LOAD PERFORMANCE CURVE

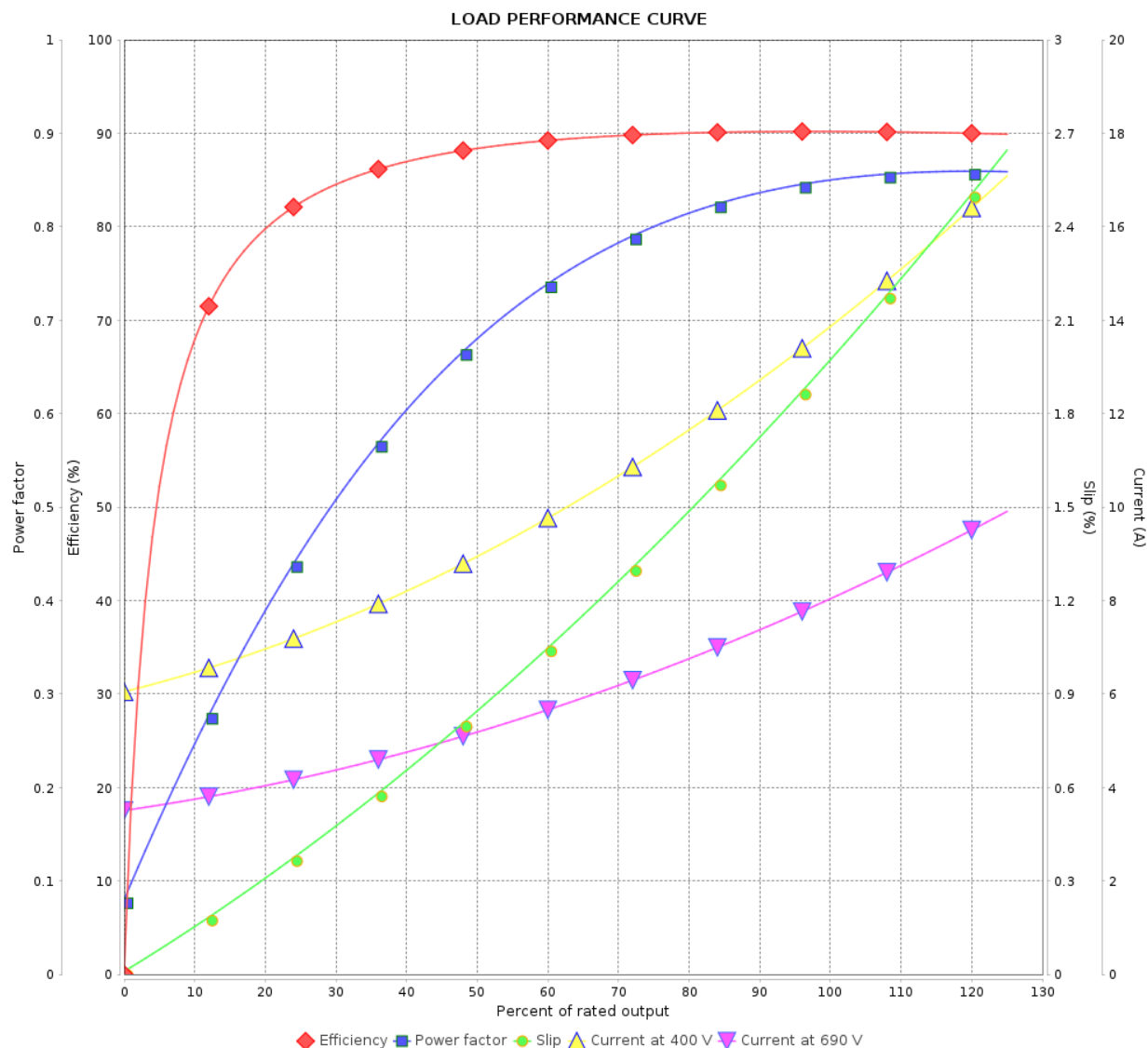
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Product line : W22 IE3 Three-Phase

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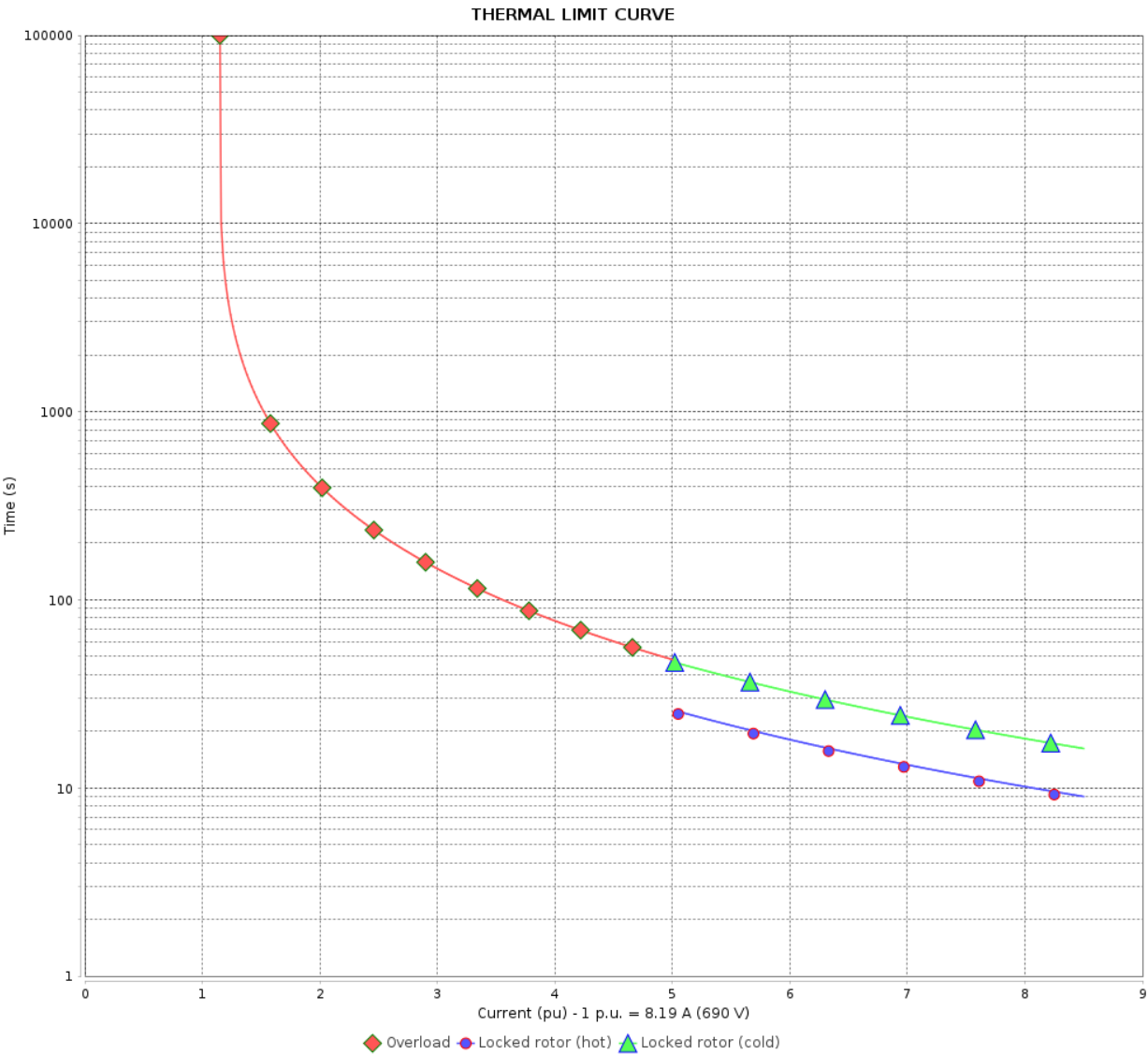
THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

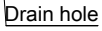
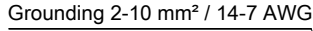
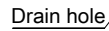
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Heating constant

Cooling constant

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AScale 2 : 13HYBRISUSER

PREVIEW



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Dimensions in mm

A3