

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE1 Three-Phase Product code : 11162392

Frame	: 355M/L	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 315 kW	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380/660 V	Altitude	: 1000 m.a.s.l.
Rated current	: 580/334 A	Protection degree	: IP55
L. R. Amperes	: 4176/2404 A	Cooling method	: IC411 - TEFC
LRC	: 7.2	Mounting	: B3T
No load current	: 183/105 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1490 rpm	Noise level ²	: 76.0 dB(A)
Slip	: 0.67 %	Starting method	: Direct On Line
Rated torque	: 206 kgfm	Approx. weight ³	: 1826 kg
Locked rotor torque	: 210 %		
Breakdown torque	: 210 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 8.95 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.8	94.9	94.9	Max. traction	: 2009 kgf
Power Factor	0.77	0.84	0.87	Max. compression	: 3835 kgf

	Drive end	Non drive end
Bearing type	: 6322 C3	6319 C3
Sealing	: WSeal	WSeal
Lubrication interval	: 9000 h	11000 h
Lubricant amount	: 60 g	45 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	155 °C

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TORQUE AND CURRENT VS SPEED CURVE

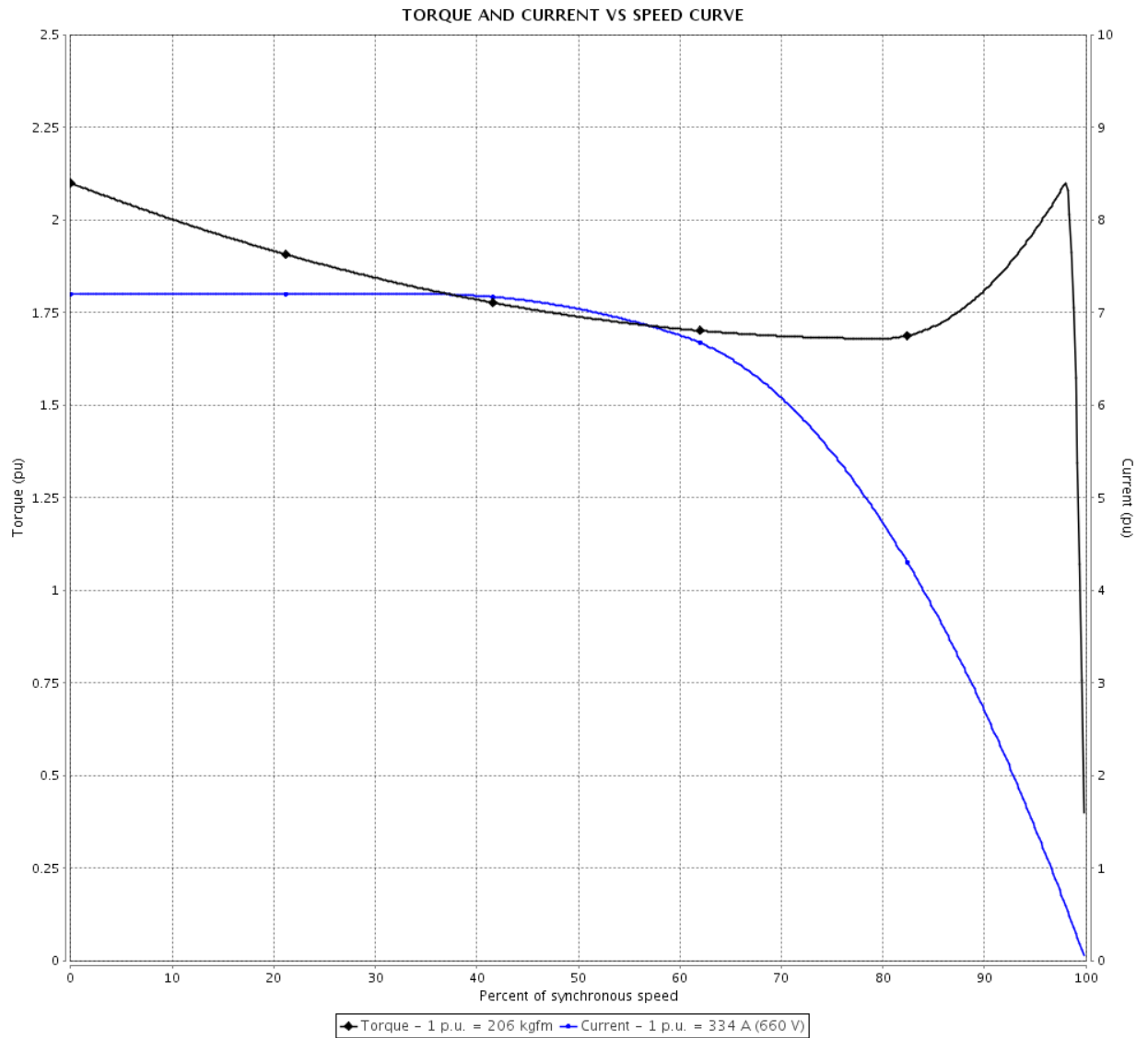
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Breakdown torque : 210 %
Rated speed : 1490 rpm

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Duty cycle : S1
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : N

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LOAD PERFORMANCE CURVE

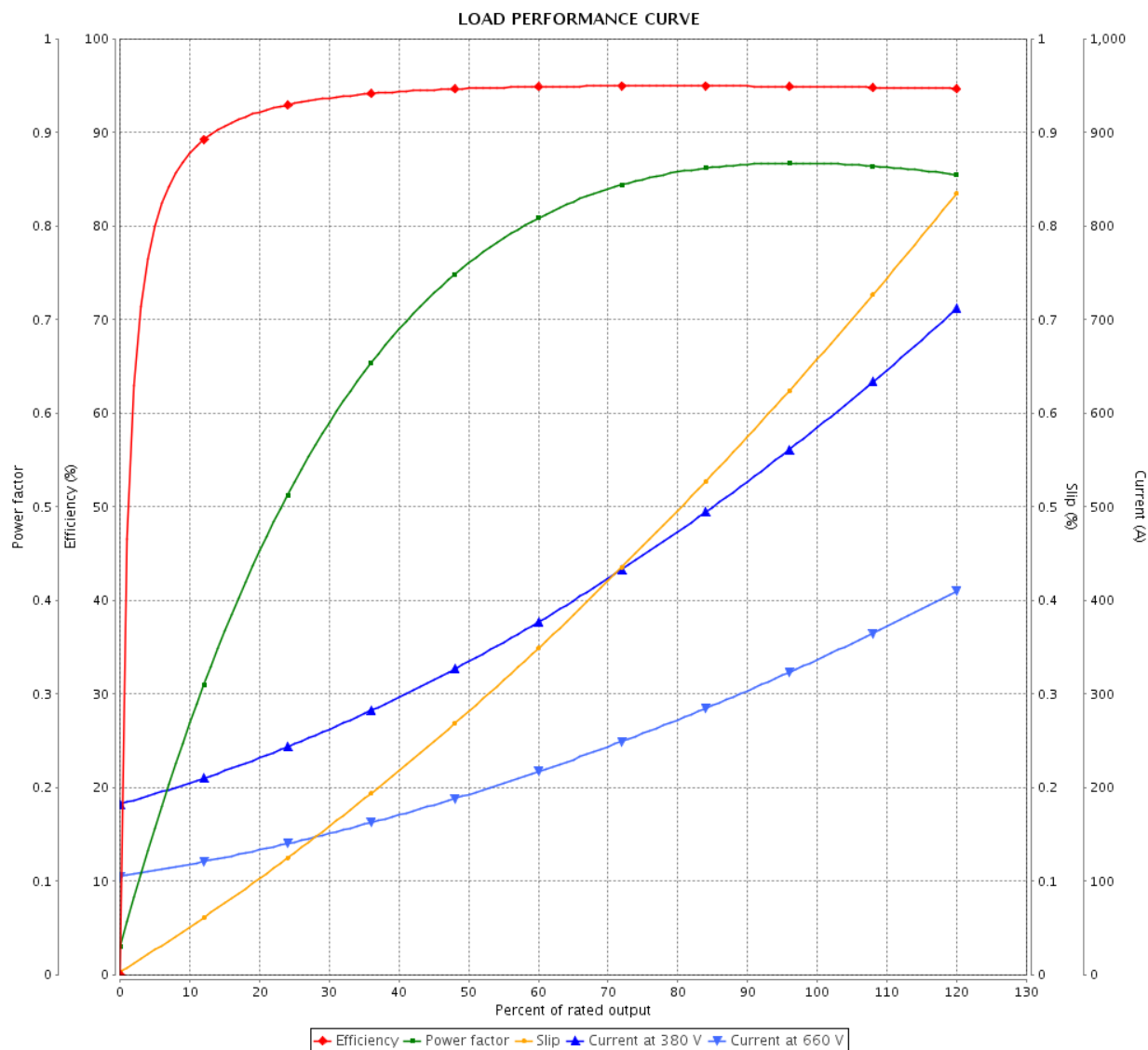
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