

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 EXd IIB T4

Product code : 11706343

Frame : 280S/M
 Output : 75 kW
 Poles : 4
 Frequency : 50 Hz
 Rated voltage : 380/660 V
 Rated current : 137/78.9 A
 L. R. Amperes : 918/528 A
 LRC : 6.7
 No load current : 32.0/18.4 A
 Rated speed : 1480 rpm
 Slip : 1.33 %
 Rated torque : 49.4 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 220 %
 Insulation class : F
 Service factor : 1.00
 Moment of inertia (J) : 1.85 kgm²
 Design : N

Locked rotor time : 55s (cold) 31s (hot)
 Temperature rise : 80 K
 Duty cycle : S1
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP55
 Cooling method : IC411 - TEFC
 Mounting : B3T
 Rotation¹ : Both (CW and CCW)
 Noise level² : 76.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 785 kg

Output	50%	75%	100%
Efficiency (%)	91.0	92.5	92.8
Power Factor	0.82	0.87	0.89

Foundation loads
 Max. traction : 577 kgf
 Max. compression : 1362 kgf

	Drive end	Non drive end
Bearing type	6316 C3	6316 C3
Sealing	Lip Seal	Lip Seal
Lubrication interval	10421 h	10421 h
Lubricant amount	34 g	34 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

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TORQUE AND CURRENT VS SPEED CURVE

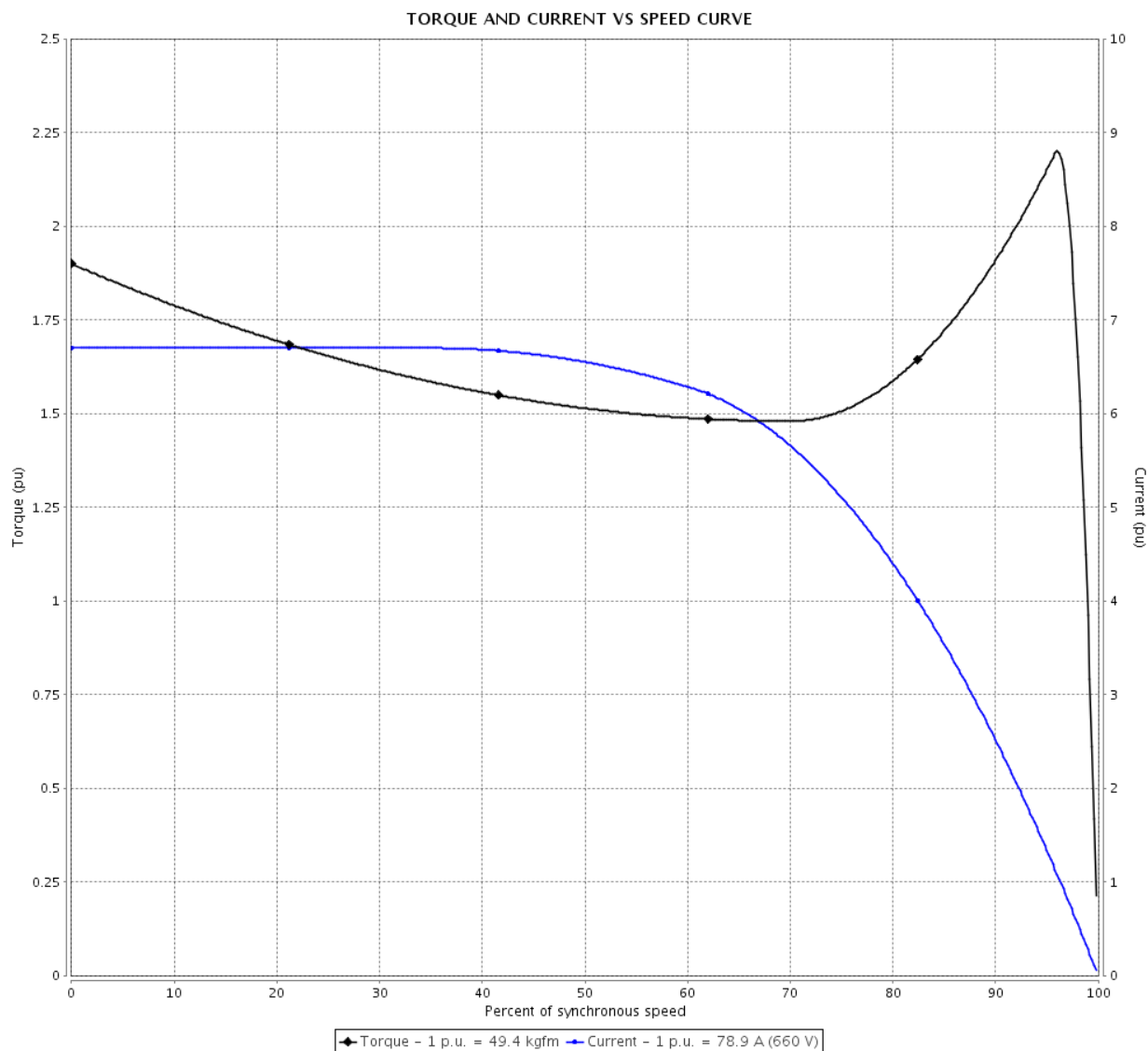
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LOAD PERFORMANCE CURVE

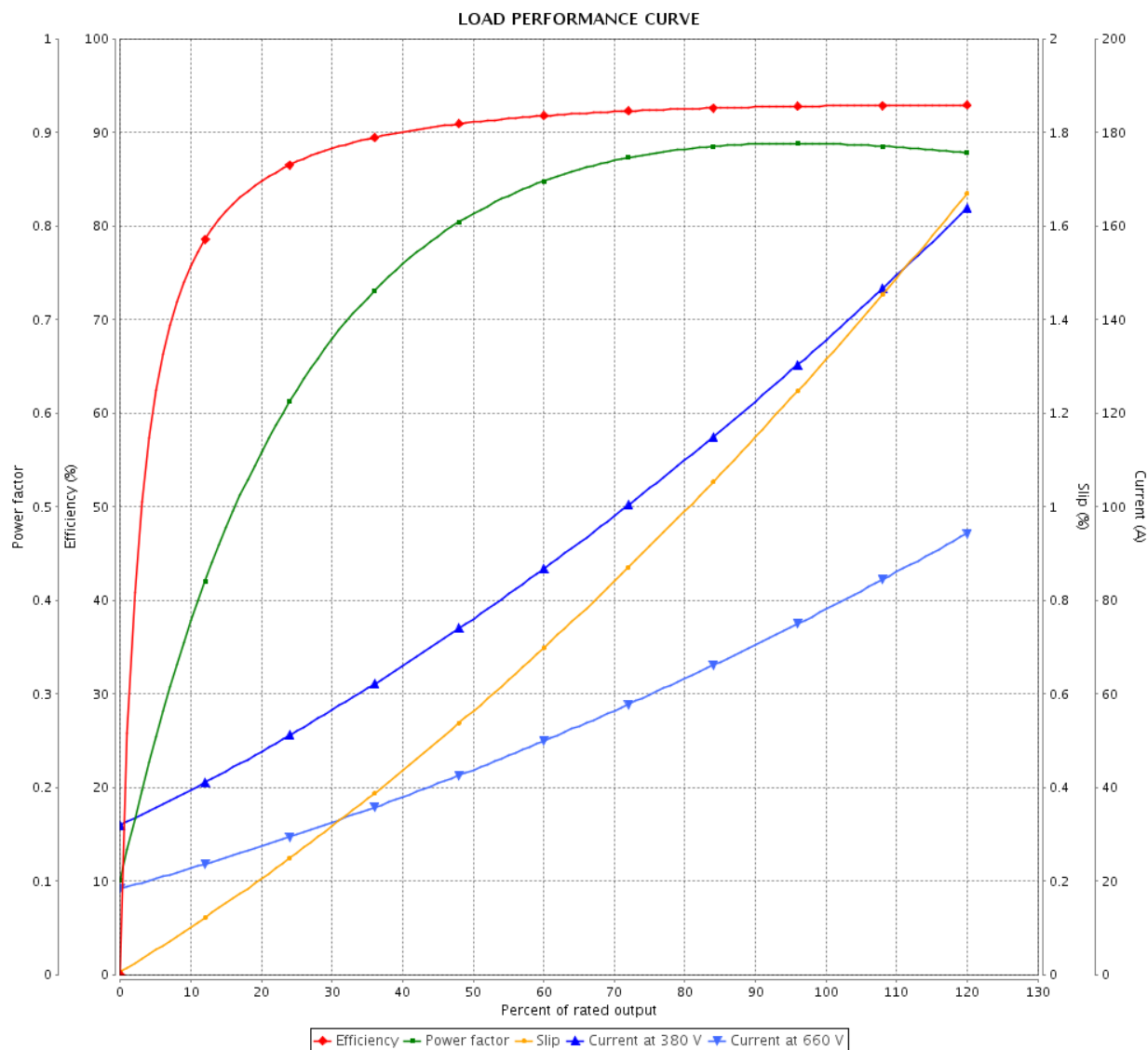
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