DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14272520

Frame	: 364/5TC	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 75 HP (55 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 68.4 A	Protection degree	: IP23
L. R. Amperes	: 465 A	Cooling method	: IC01 - ODP
LRC	: 6.8x(Code G)	Mounting	: F-1
No load current	: 24.4 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level[2]	: 69.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 30.6 kgfm	Approx. weight[3]	: 364 kg
Locked rotor torque	: 220 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.7059 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	94.5	95.0	95.0
Power Factor	0.73	0.82	0.85

Foundation loads

Max. traction : 712 kgf

Max. compression : 1076 kgf

		Drive end	Non drive end
Bearing type	:	6314 C3	6212 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	27 g	13 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 NEMA MG-1.

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LOAD PERFORMANCE CURVE

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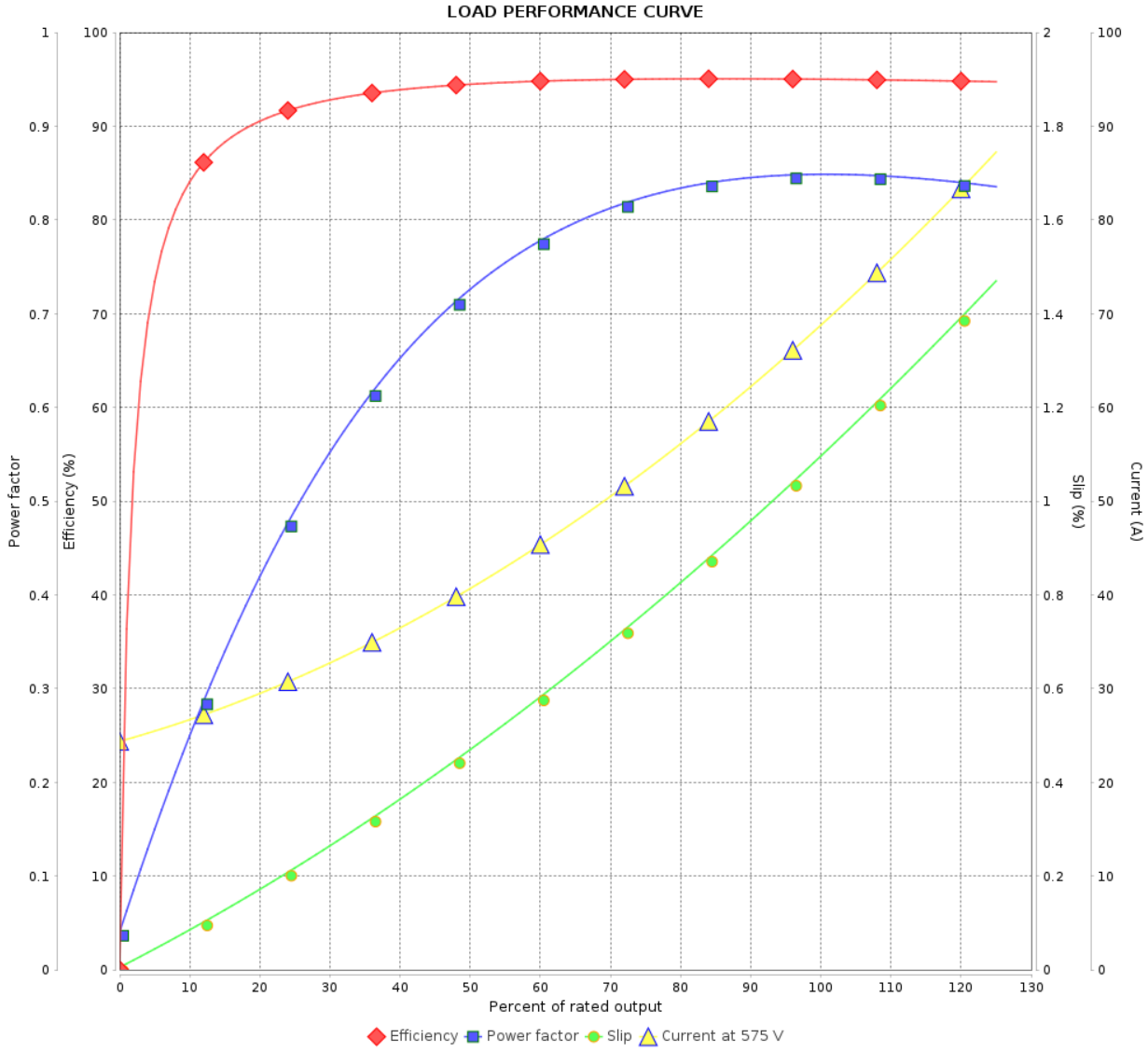

Performance	: 575 V 60 Hz 4P		
Rated current	: 68.4 A	Moment of inertia (J)	: 0.7059 kgm²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 30.6 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

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