DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14490990

Frame	: 324TS	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 50 HP (37 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 47.3 A	Protection degree	: IP23
L. R. Amperes	: 288 A	Cooling method	: IC01 - ODP
LRC	: 6.1x(Code G)	Mounting	: F-1
No load current	: 16.0 A	Rotation¹	: Both (CW and CCW)
Rated speed	: 3555 rpm	Vibration	: A
Slip	: 1.25 %	Starting method	: Direct On Line
Rated torque	: 10 kgfm	Approx. weight³	: 204 kg
Locked rotor torque	: 170 %		: 203A (ISO 12944 - C3)
Breakdown torque	: 200 %		: RAL 3002
Insulation class	: F	Design	: B
Service factor	: 1.15		
Moment of inertia (J)	: 0.1269 kgm²		

Output	50%	75%	100%
Efficiency (%)	91.7	92.4	92.4
Power Factor	0.74	0.82	0.85

Foundation loads

Max. traction	: 0 kgf
Max. compression	: 0 kgf

		Drive end	Non drive end
Bearing type	:	6312 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	19658 h	20000 h
Lubricant amount	:	21 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 NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

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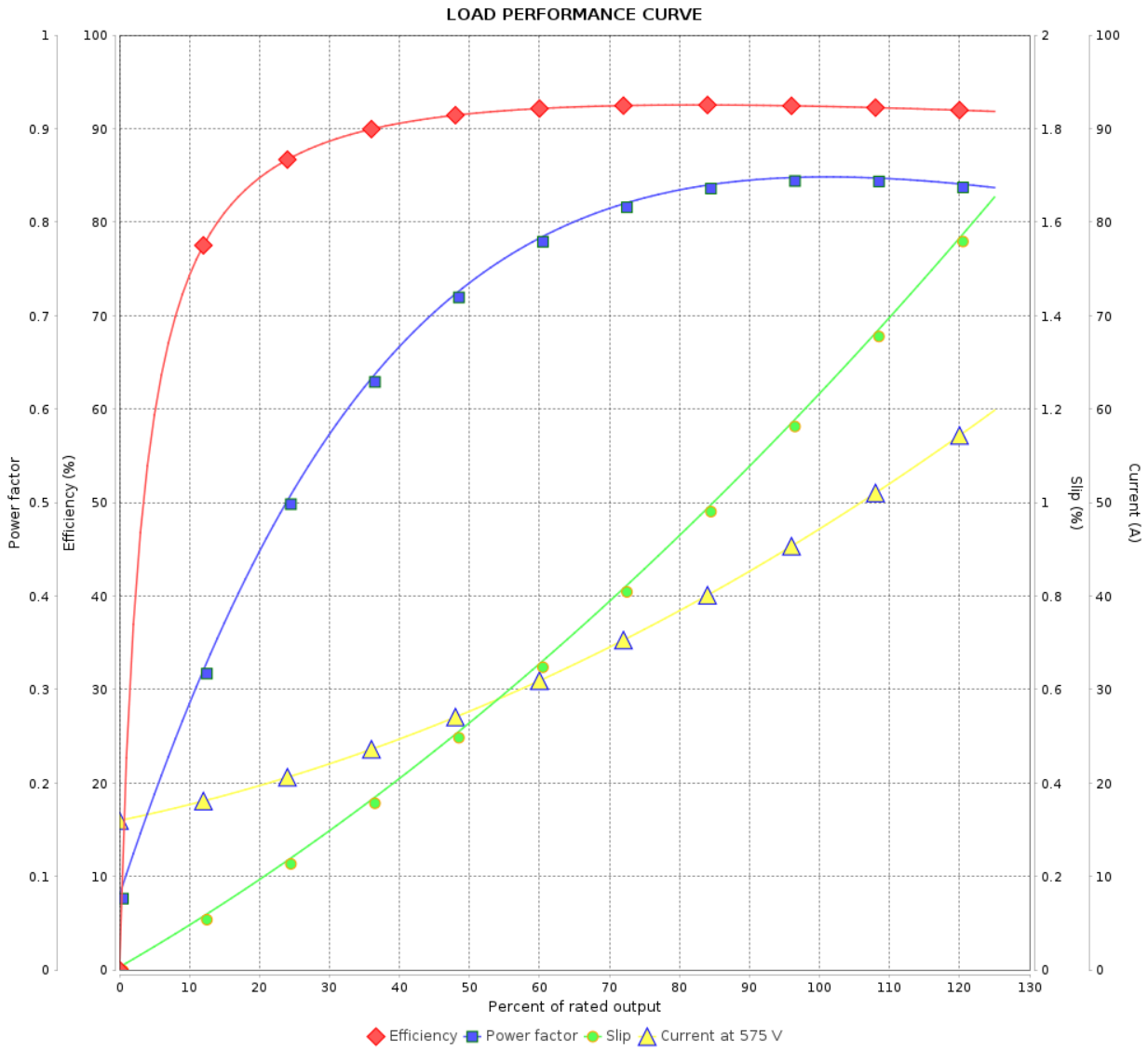

Performance	: 575 V 60 Hz 2P		
Rated current	: 47.3 A	Moment of inertia (J)	: 0.1269 kgm²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 10 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 3555 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

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