DATA SHEET

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer :

Product line : W40 High Efficiency
Product code : 16583197

Frame	: 324/6T
Output	: 50 HP (37 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 48.1 A
L. R. Amperes	: 289 A
LRC	: 6.0 Code G
No load current	: 17.2 A
Rated speed	: 1770 rpm
Slip	: 1.67 %
Rated torque	: 20.5 kgfm
Locked rotor torque	: 200 %
Pull up torque	: 170 %
Breakdown torque	: 220 %
Insulation class	: F
Service factor	: 1.15
Moment of inertia (J)	: 0.252 kgm²

Locked rotor time	: 15 s (hot) 27 s (cold)
Temperature rise[4]	: 80 K
Duty cycle	: S1
Ambient temperature	: -20 °C to +40 °C
Altitude	: 1000 m.a.s.l
Protection degree	: IP23
Cooling method	: IC01 - ODP
Mounting	: B3R(D)
Rotation[1]	: Both
Noise level[2]	: 66 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 226 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	92.4	93.0	93.0
Power Factor	0.45	0.67	0.78	0.83

Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

	Drive end	Non drive end
Bearing type	6312-Z-C3	6211-Z-C3
Lubrication interval	20000 h	20000 h
Lubrication amount	21 g	11 g
Lubrication type	MOBIL POLYREX EM	

Notes:

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)
7.35	6.28	5.69	3.26	2.30	1.42	1.00

Standards

Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
Noise	: MG1 - Part 9		

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 +0dB(A).
(3) Approximate weight, subject to be changed 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 1-12.

Rev.	Changes Summary	Performed	Checked	Date
				2026/10/22

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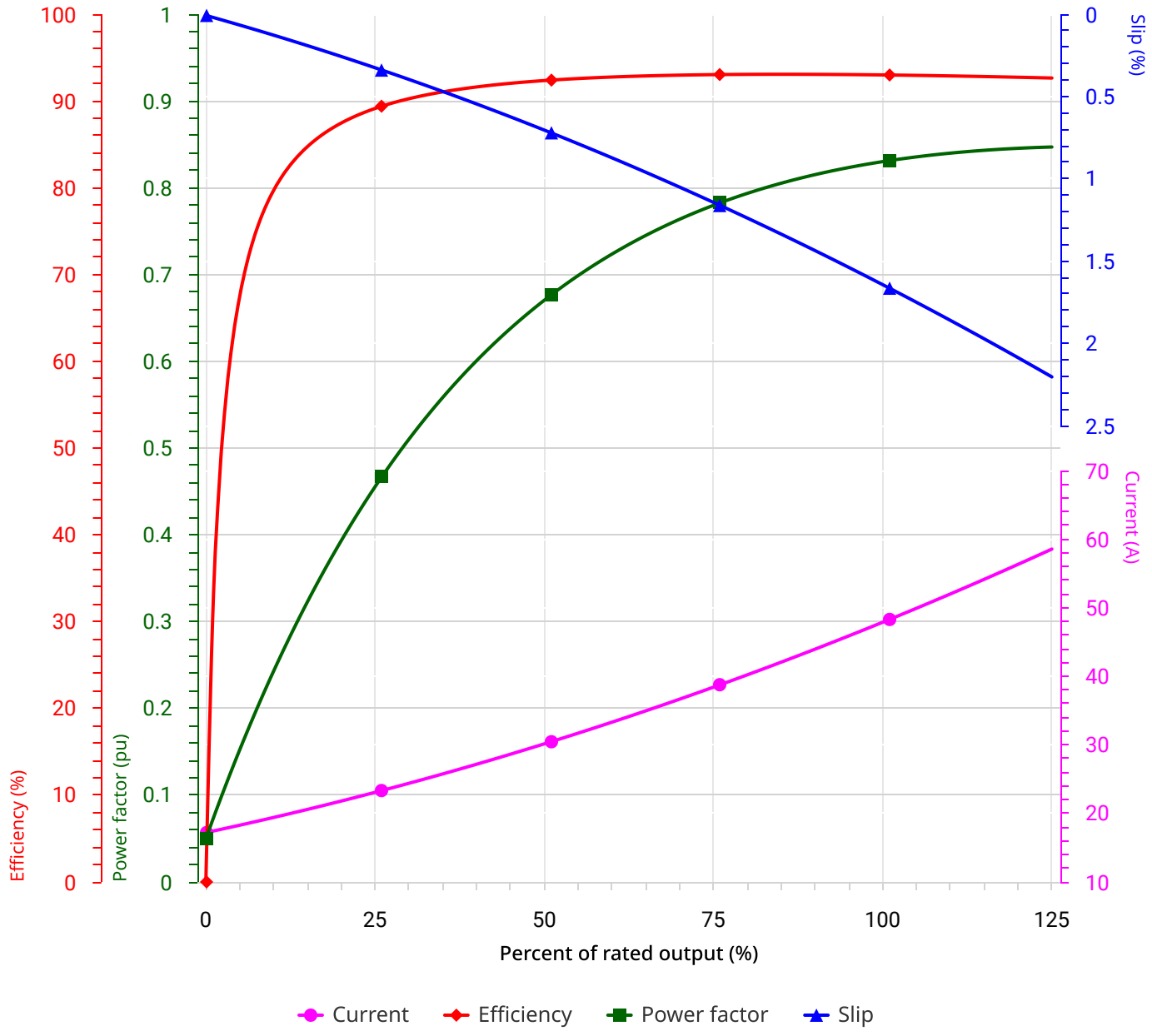
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Product code	: 16583197



Performance	: 50 HP (37 kW) 575V 60Hz 4P 324/6T		
Rated current	: 48.1 A	Moment of inertia (J)	: 0.252 kgm²
LRC	: 6.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 20.5 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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