DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 - Nema Premium Efficiency
Product code	: 14739636

Frame	: 324/6TD
Output	: 50 HP (37 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 47.4 A
L. R. Amperes	: 294 A
LRC	: 6.2 Code G
No load current	: 18.8 A
Rated speed	: 1775 rpm
Slip	: 1.39 %
Rated torque	: 20.4 kgfm
Locked rotor torque	: 230 %
Pull up torque	: 180 %
Breakdown torque	: 270 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.3861 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	: IP55
Cooling method	: IC411 - TEFC
Mounting	: B35R(D)
Rotation[1]	: Both
Noise level[2]	: 70 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 243 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	93.0	94.1	94.5
Power Factor	0.42	0.66	0.77	0.83

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

	Drive end	Non drive end
Bearing type	6312-C3	6212-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	21 g	13 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 565 kgf
Max. compression	: 808 kgf

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)
5.68	4.86	4.74	2.68	1.90	1.22	0.86

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
				2026/11/14

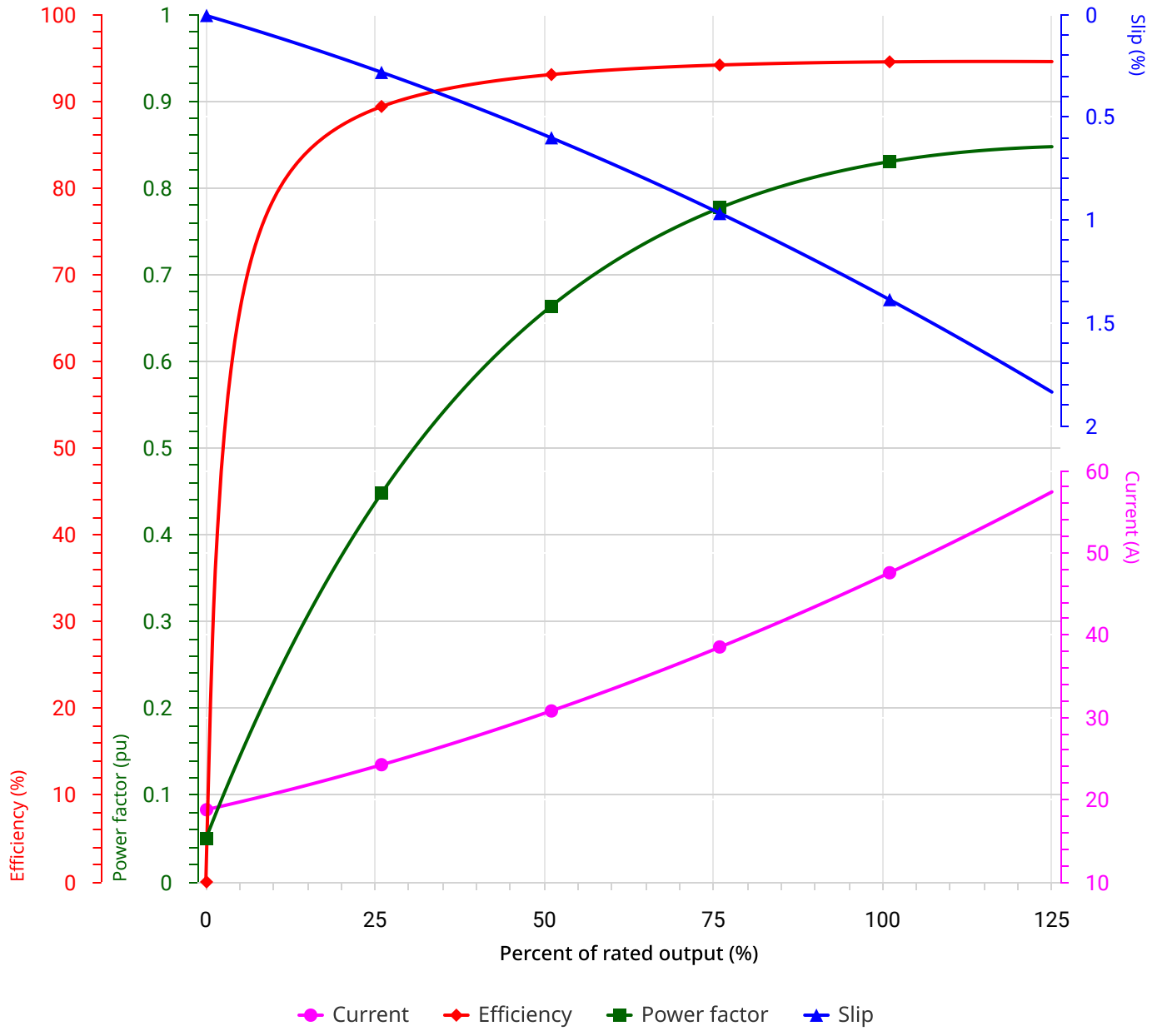
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 14739636



Performance	: 50 HP (37 kW) 575V 60Hz 4P 324/6TD

Rated current	: 47.4 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 6.2 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 20.4 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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