DATA SHEET

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer	:

Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 14004826

Frame	: 364/5HP	Locked rotor time	: 18 s (hot) 32 s (cold)
Output	: 50 HP (37 kW)	Temperature rise[4]	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l
Rated current	: 45.9 A	Protection degree	: IP55
L. R. Amperes	: 294 A	Cooling method	: IC411 - TEFC
LRC	: 6.4 Code G	Mounting	: V1
No load current	: 16.0 A	Rotation[1]	: Both
Rated speed	: 1183 rpm	Noise level[2]	: 66 dB(A)
Slip	: 1.42 %	Starting method	: Direct On Line
Rated torque	: 30.7 kgfm	Approx. weight[3]	: 394 kg
Locked rotor torque	: 200 %	Design	: B
Pull up torque	: 160 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.37 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	93.6	94.1	94.1
Power Factor	0.39	0.74	0.83	0.86

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

	Drive end	Non drive end
Bearing type	6316-C3	6314-C3
Lubrication interval	8000 h	8000 h
Lubrication amount	34 g	27 g
Lubricant 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)
6.16	5.16	4.57	2.77	1.89	1.16	0.79

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

Performed by	
Checked by	
Date	2026/10/19

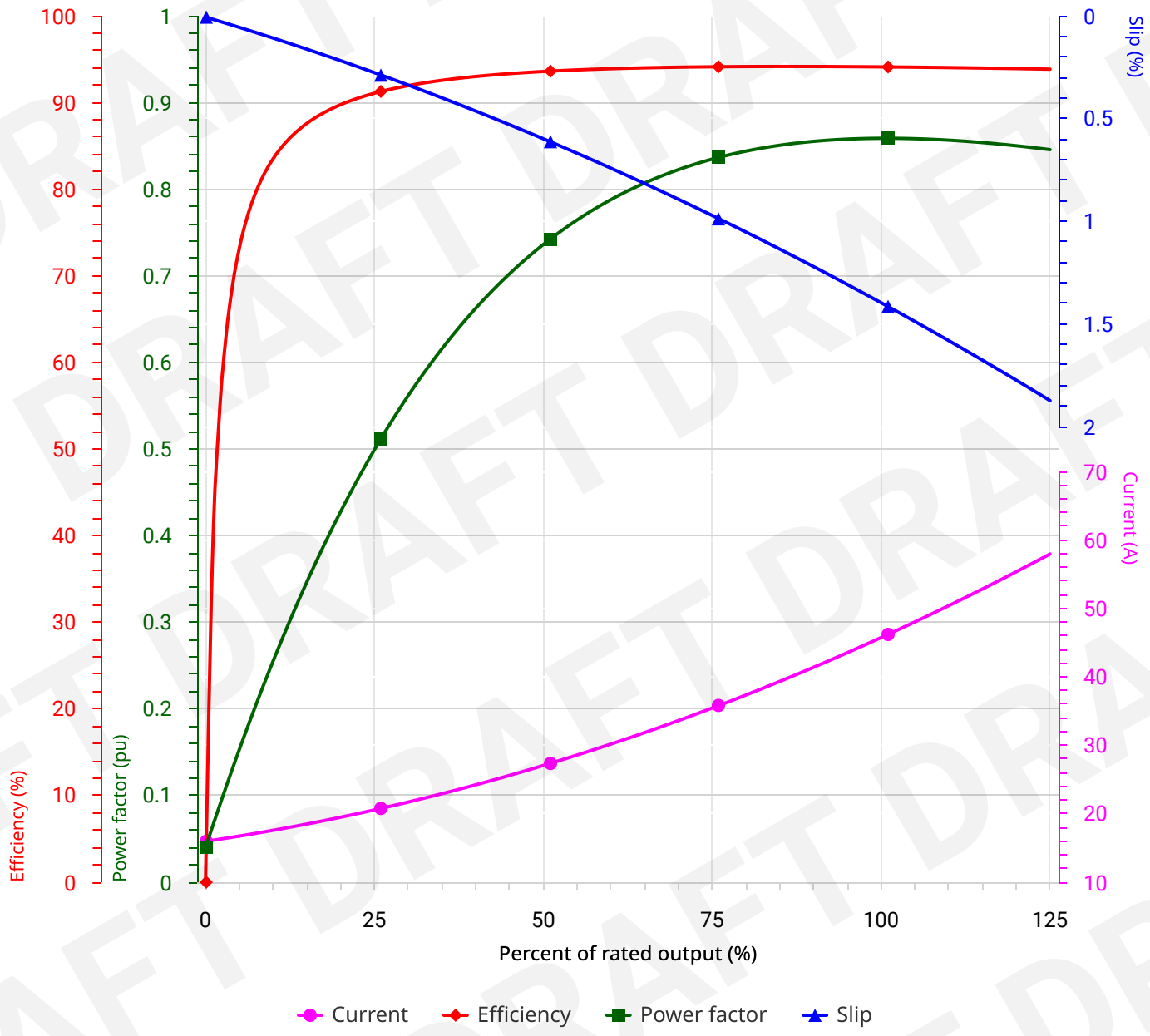
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LOAD PERFORMANCE CURVE

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PRELIMINARY DOCUMENT

Customer	:
Product line	: W22 P-base - Nema Premium Efficiency
Product code	: 14004826



Performance	: 50 HP (37 kW) 575V 60Hz 6P 364/5HP

Rated current	: 45.9 A	Moment of inertia (J)	: 1.37 kgm²
LRC	: 6.4 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 30.7 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1183 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	2026/10/19		2/2	0

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