DATA SHEET

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer :

Product line : W22 Brake - Nema Premium Efficiency
Product code : 14103840

Frame	: 143/5T
Output	: 2 HP (1.5 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 2.29 A
L. R. Amperes	: 19.0 A
LRC	: 8.3 Code L
No load current	: 1.38 A
Rated speed	: 1750 rpm
Slip	: 2.78 %
Rated torque	: 0.829 kgfm
Locked rotor torque	: 280 %
Pull up torque	: 235 %
Breakdown torque	: 350 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.0066 kgm²

Locked rotor time	: 10 s (hot) 18 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	: B3R(D)
Rotation[1]	: Both
Noise level[2]	: 51 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 27.7 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	85.0	86.0	86.5
Power Factor	0.70	0.55	0.68	0.76

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

	Drive end	Non drive end
Bearing type	6205-ZZ	6204-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads
Max. traction : 68 kgf
Max. compression : 96 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)
16.86	13.36	12.05	12.11	8.73	7.94	5.92

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			Page	Revision
Date	2026/10/20		1/2	0

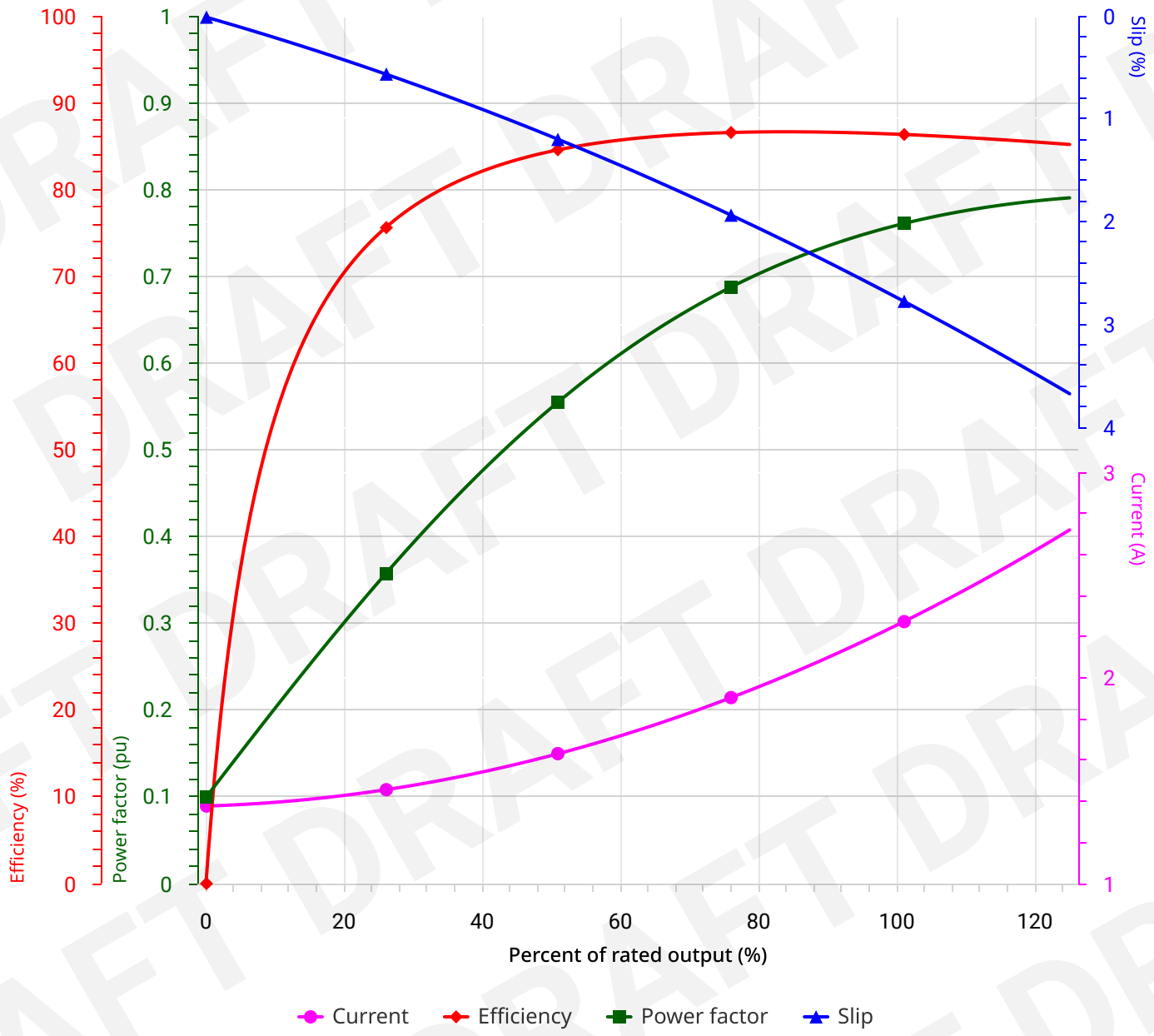
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer	:
Product line	: W22 Brake - Nema Premium Efficiency
Product code	: 14103840



Performance	: 2 HP (1.5 kW) 575V 60Hz 4P 143/5T

Rated current	: 2.29 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 8.3 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 0.829 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	2026/10/20		2/2	0

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.