DATA SHEET

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM
Product code	: 13506324

Frame	: 254/6	Locked rotor time	: 8 s (hot) 14 s (cold)
Output	: 25 HP (18.5 kW)	Temperature rise[4]	: 80 K
Poles	: 2	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	: 22.8 A	Protection degree	: IP55
L. R. Amperes	: 189 A	Cooling method	: IC411 - TEFC
LRC	: 8.3 Code J	Mounting	: F-1/B34R(D)
No load current	: 8.03 A	Rotation[1]	: Both
Rated speed	: 3530 rpm	Noise level[2]	: 75 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 5.14 kgfm	Approx. weight[3]	: 100 kg
Locked rotor torque	: 240 %	Design	: A
Pull up torque	: 180 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0551 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	91.0	91.7	91.7
Power Factor	0.49	0.77	0.85	0.89

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

	Drive end	Non drive end
Bearing type	6309-Z-C3	6208-Z-C3
Lubrication interval	15797 h	20000 h
Lubricant amount	13 g	8 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)
8.92	7.43	6.71	4.63	3.11	2.12	1.46

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

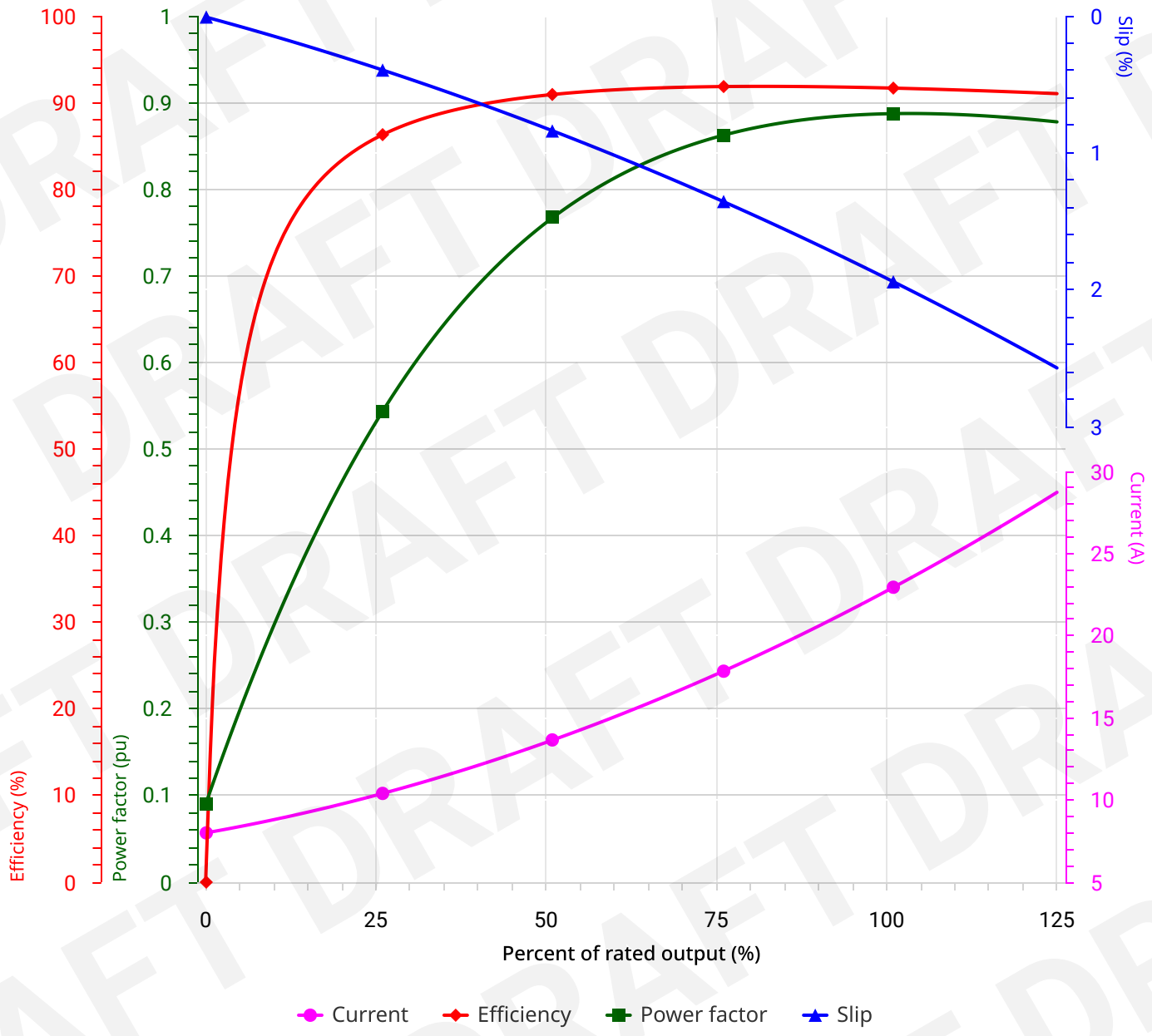
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM
Product code	: 13506324



Performance	: 25 HP (18.5 kW) 575V 60Hz 2P 254/6

Rated current	: 22.8 A	Moment of inertia (J)	: 0.0551 kgm²
LRC	: 8.3 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 5.14 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: A

Rev.	Changes Summary	Performed	Checked	Date

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

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