DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - TEFC - Nema Premium Efficiency
Product code	: 12789105

Frame	: 254/6T
Output	: 20 HP (15 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 18.2 A
L. R. Amperes	: 120 A
LRC	: 6.6 Code G
No load current	: 5.50 A
Rated speed	: 3515 rpm
Slip	: 2.36 %
Rated torque	: 4.13 kgfm
Locked rotor torque	: 200 %
Pull up torque	: 150 %
Breakdown torque	: 290 %
Insulation class	: F
Service factor	: 1.15
Moment of inertia (J)	: 0.0514 kgm²

Locked rotor time	: 12 s (hot) 22 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	: F-1/B3R(D)
Rotation[1]	: Both
Noise level[2]	: 75 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 95.8 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	90.0	91.0	91.0
Power Factor	0.49	0.81	0.88	0.91

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)
8.83	7.32	6.67	4.48	2.93	1.93	1.31

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
				2026/11/02

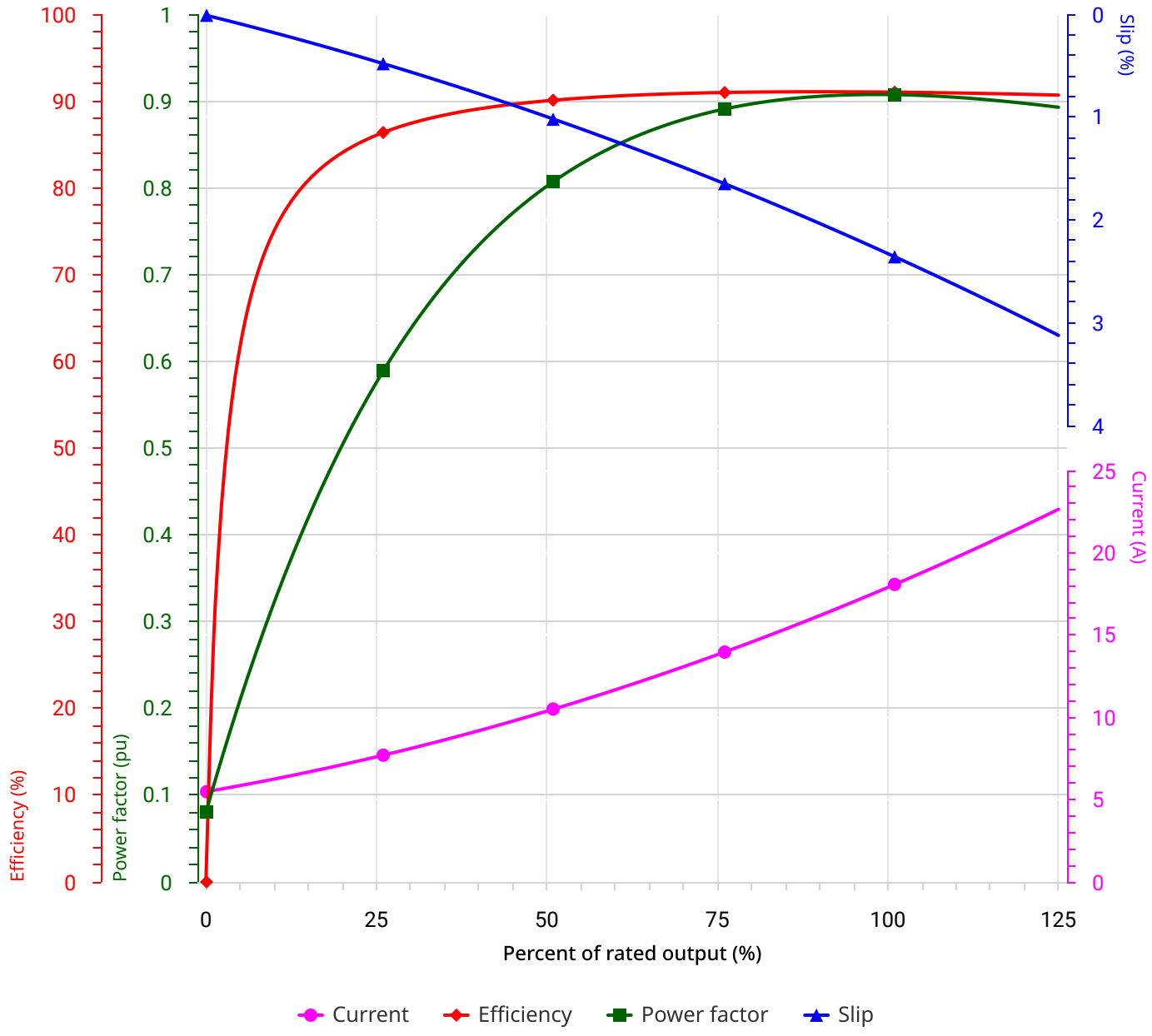
Performed by				
Checked by			Page	Revision
Date	2026/11/02		1/2	0

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

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency
Product code	: 12789105



Performance	: 20 HP (15 kW) 575V 60Hz 2P 254/6T

Rated current	: 18.2 A	Moment of inertia (J)	: 0.0514 kgm²
LRC	: 6.6 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 4.13 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/02

Performed by				
Checked by			Page	Revision
Date	2026/11/02		2/2	0

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