DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Special Motor

Frame	: 586/7TZ	Locked rotor time	: 29 s (hot) 52 s (cold)
Output	: 400 HP (300 kW)	Temperature rise[4]	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l
Rated current	: 489 A	Protection degree	: IP55
L. R. Amperes	: 3179 A	Cooling method	: IC411 - TEFC
LRC	: 6.5	Mounting	: B3R(D)
No load current	: 220 A	Rotation[1]	: Both
Rated speed	: 1193 rpm	Noise level[2]	: 77 dB(A)
Slip	: 0.58 %	Starting method	: Direct On Line
Rated torque	: 243 kgfm	Approx. weight[3]	: 1866 kg
Locked rotor torque	: 220 %		
Pull up torque	: 185 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 15.5 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	95.4	95.8	96.2
Power Factor	0.00	0.66	0.75	0.8

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

	Drive end	Non drive end
Bearing type	NU-324-C3	6319-C3
Lubrication interval	6000 h	13000 h
Lubricant amount	72 g	45 g
Lubricant type	MOBIL POLYREX EM	

Notes:
The vibration and noise level informed are valid when motor is operating with roller bearings respecting their minimum radial load. Thus, WEG reserves the right to test the motor with ball bearings.

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00

Standards

Specification	: MG1 - Part 20	Vibration	: MG1 - Part 7
Test	: MG1 - Part 20	Tolerance	:
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 1-20.

Rev.	Changes Summary	Performed	Checked	Date
				23/04/2021

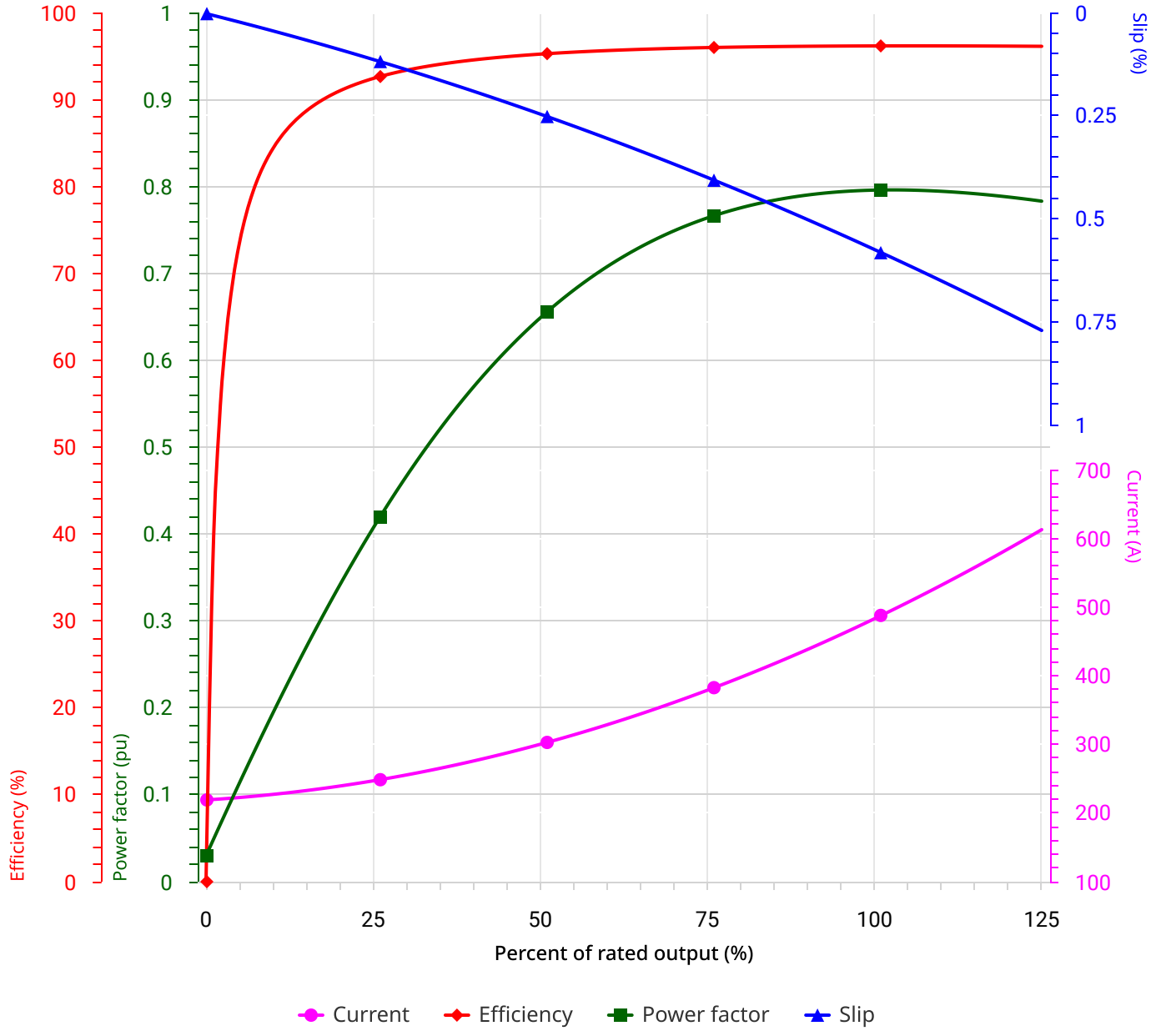
Performed by	fvaleria	12252/2016	
Checked by	matheusgreft	Page	Revision
Date	23/04/2021	1/2	3

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	: Special Motor



Performance	: 400 HP (300 kW) 460V 60Hz 6P 586/7TZ

Rated current	: 489 A	Moment of inertia (J)	: 15.5 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 243 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1193 rpm		

Rev.	Changes Summary	Performed	Checked	Date
				23/04/2021

Performed by	fvaleria		12252/2016	
Checked by	matheusgreft		Page	Revision
Date	23/04/2021		2/2	3

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