DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Sales document	: 52072228-000010

Product line	: Special Motor
Product code	: 17182672

Frame	: 404/5LP
Output	: 100 HP (75 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 88.1 A
L. R. Amperes	: 573 A
LRC	: 6.5 Code G
No load current	: 20.0 A
Rated speed	: 3550 rpm
Slip	: 1.39 %
Rated torque	: 20.4 kgfm
Locked rotor torque	: 250 %
Pull up torque	: 160 %
Breakdown torque	: 280 %
Insulation class	: F
Service factor	: 1.15
Moment of inertia (J)	: 0.5561 kgm²

Locked rotor time	: 21 s (hot) 38 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	: V1
Rotation[1]	: Both
Noise level[2]	: 85 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 547 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	93.6	95.0	95.0
Power Factor	0.00	0.85	0.89	0.9

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

	Drive end	Non drive end
Bearing type	6314-C3	7311BECB
Bearing type #2	-	7311BECB
Lubrication interval	1802 h	1621 h
Lubricant amount	27 g	18 g
Lubricant amount #2	-	18 g
Lubricant type	MOBIL POLYREX EM	

Notes:
IN LINE EXTRA THRUST
NEMA PREMIUM EFFICIENCY

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 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
				22/03/2023

Performed by	lcorrea		80036/2023	
Checked by	AUTOMATICO		Page	Revision
Date	22/03/2023		1/2	0

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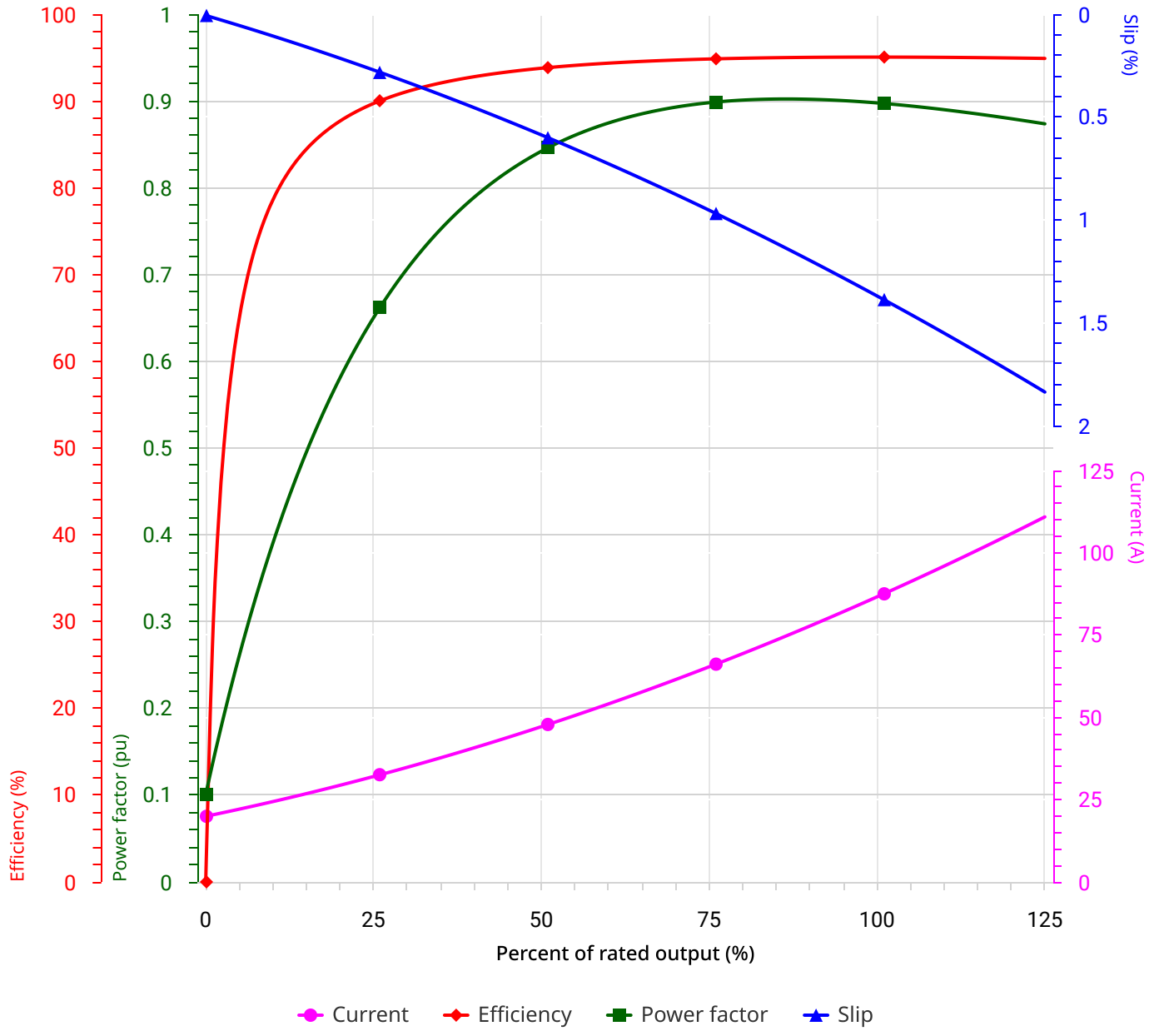

Performance	: 100 HP (75 kW) 575V 60Hz 2P 404/5LP

Rated current	: 88.1 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 20.4 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: B

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Performed by	lcorrea		80036/2023	
Checked by	AUTOMATICO		Page	Revision
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