DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Sales document	: -

Product line	: Special Motor
Product code	: 14022317

Frame	: 364/5LP	Locked rotor time	: 18 s (hot) 0 s (cold)
Output	: 75 HP (55 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	: 65.9 A	Protection degree	: IP55
L. R. Amperes	: 461 A	Cooling method	: IC411 - TEFC
LRC	: 7.0 Code G	Mounting	: V1
No load current	: 17.6 A	Rotation[1]	: Clockwise
Rated speed	: 3560 rpm	Noise level[2]	: 85 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 15.3 kgfm	Approx. weight[3]	: 458 kg
Locked rotor torque	: 230 %	Design	: B
Pull up torque	: 170 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.4198 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	93.0	94.1	94.1
Power Factor	0.00	0.81	0.87	0.89

	Drive end	Non drive end
Bearing type	6314	2x7311BECB
Lubrication interval	1802 h	1621 h
Lubricant amount	27 g	18 g
Lubricant type	MOBIL POLYREX EM	

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

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
				22/05/2017

Performed by	marletez	86104/2017	
Checked by	AUTOMATICO	Page	Revision
Date	22/05/2017	1/2	1

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LOAD PERFORMANCE CURVE

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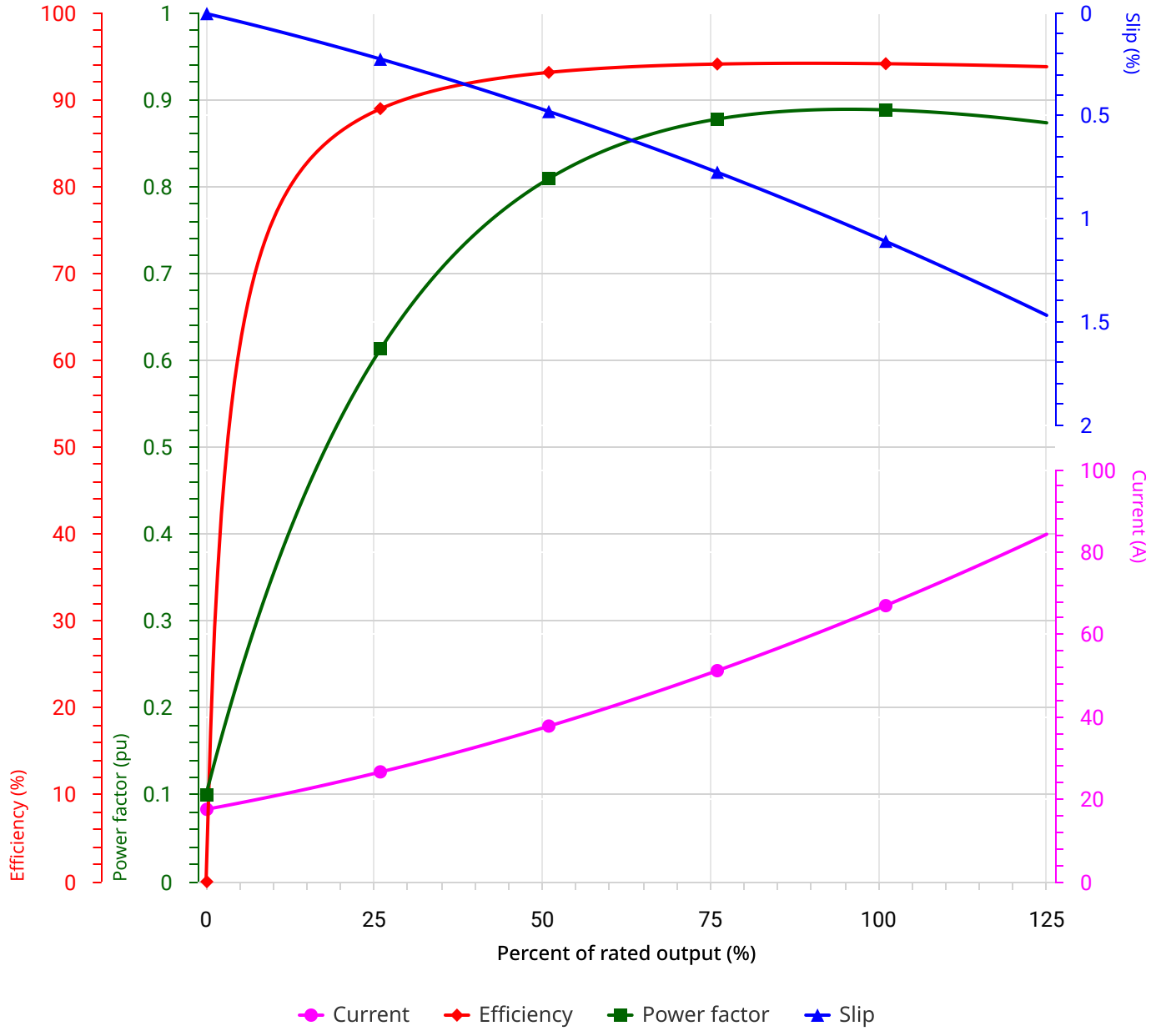
Product line	: Special Motor
Product code	: 14022317



Performance	: 75 HP (55 kW) 575V 60Hz 2P 364/5LP

Rated current	: 65.9 A	Moment of inertia (J)	: 0.4198 kgm²
LRC	: 7.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 15.3 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
				22/05/2017

Performed by	marletez		86104/2017	
Checked by	AUTOMATICO		Page	Revision
Date	22/05/2017		2/2	1

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