DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Sales document	: 4453312-10

Product line	: Special Motor
Product code	: 13954310

Frame	: 182/4HP
Output	: 5 HP (3.7 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 4.72 A
L. R. Amperes	: 35.9 A
LRC	: 7.6 Code J
No load current	: 1.60 A
Rated speed	: 3485 rpm
Slip	: 3.19 %
Rated torque	: 1.04 kgfm
Locked rotor torque	: 230 %
Pull up torque	: 195 %
Breakdown torque	: 350 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.0094 kgm²

Locked rotor time	: 25 s (hot) 45 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	: V15R(D)
Rotation[1]	: Both
Noise level[2]	: 69 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 47.0 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	86.5	88.5	88.5
Power Factor	0.55	0.76	0.85	0.89

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

	Drive end	Non drive end
Bearing type	6308-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Notes:
W22 P.Base
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
				03/10/2018

Performed by	aboaventura	53674/2017	
Checked by	diegofm	Page	Revision
Date	27/09/2018	1/2	4

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LOAD PERFORMANCE CURVE

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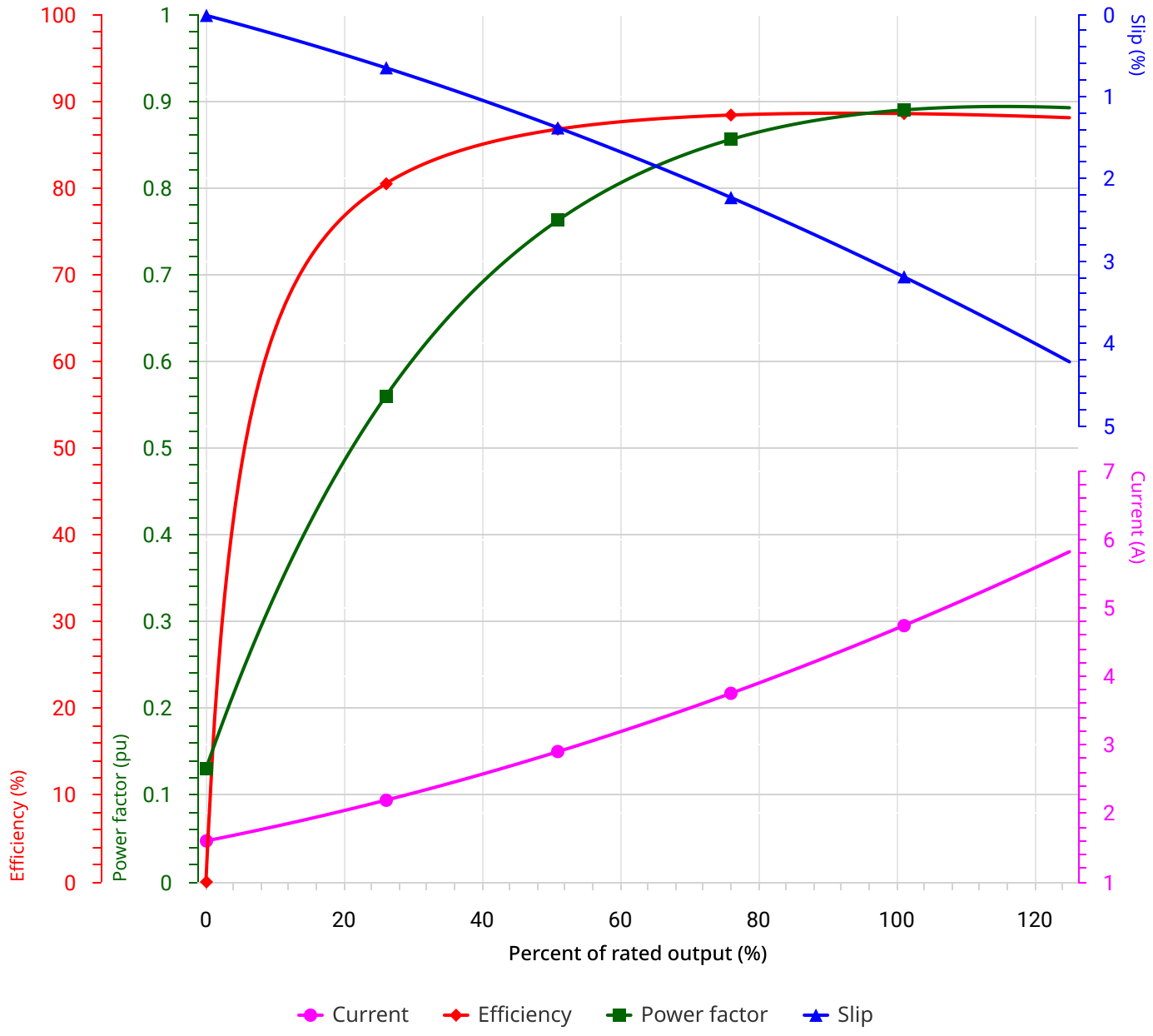

Performance	: 5 HP (3.7 kW) 575V 60Hz 2P 182/4HP		
Rated current	: 4.72 A	Moment of inertia (J)	: 0.0094 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.04 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3485 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Performed by	aboaventura		53674/2017	
Checked by	diegofm		Page	Revision
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