DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Special Motor
Product code	: 14643833

Frame	: 215LP
Output	: 7.5 HP (5.5 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 230/460 V
Rated current	: 17.1/8.57 A
L. R. Amperes	: 120/60.0 A
LRC	: 7.0 Code H
No load current	: 4.61/2.31 A
Rated speed	: 3530 rpm
Slip	: 1.94 %
Rated torque	: 1.54 kgfm
Locked rotor torque	: 220 %
Pull up torque	: 185 %
Breakdown torque	: 300 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.0198 kgm²

Locked rotor time	: 23 s (hot) 41 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]	: 72 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 109 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	85.5	88.5	89.5
Power Factor	0.00	0.78	0.87	0.9

Load type	: Parabolic torque
Load torque	: 1.54 kgfm
Load inertia (J=GD²/4)	: 0.0198 kgm²

	Drive end	Non drive end
Bearing type	6309	7306BECB
Bearing type #2	-	7306BECB
Lubrication interval	7898 h	8437 h
Lubricant amount	13 g	7 g
Lubricant amount #2	-	7 g
Lubricant type	MOBIL POLYREX EM	

Notes:
In Line Extra Thrust Motor
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
				08/05/2023

Performed by	eduardaa	488473/2018	
Checked by	kamer	Page	Revision
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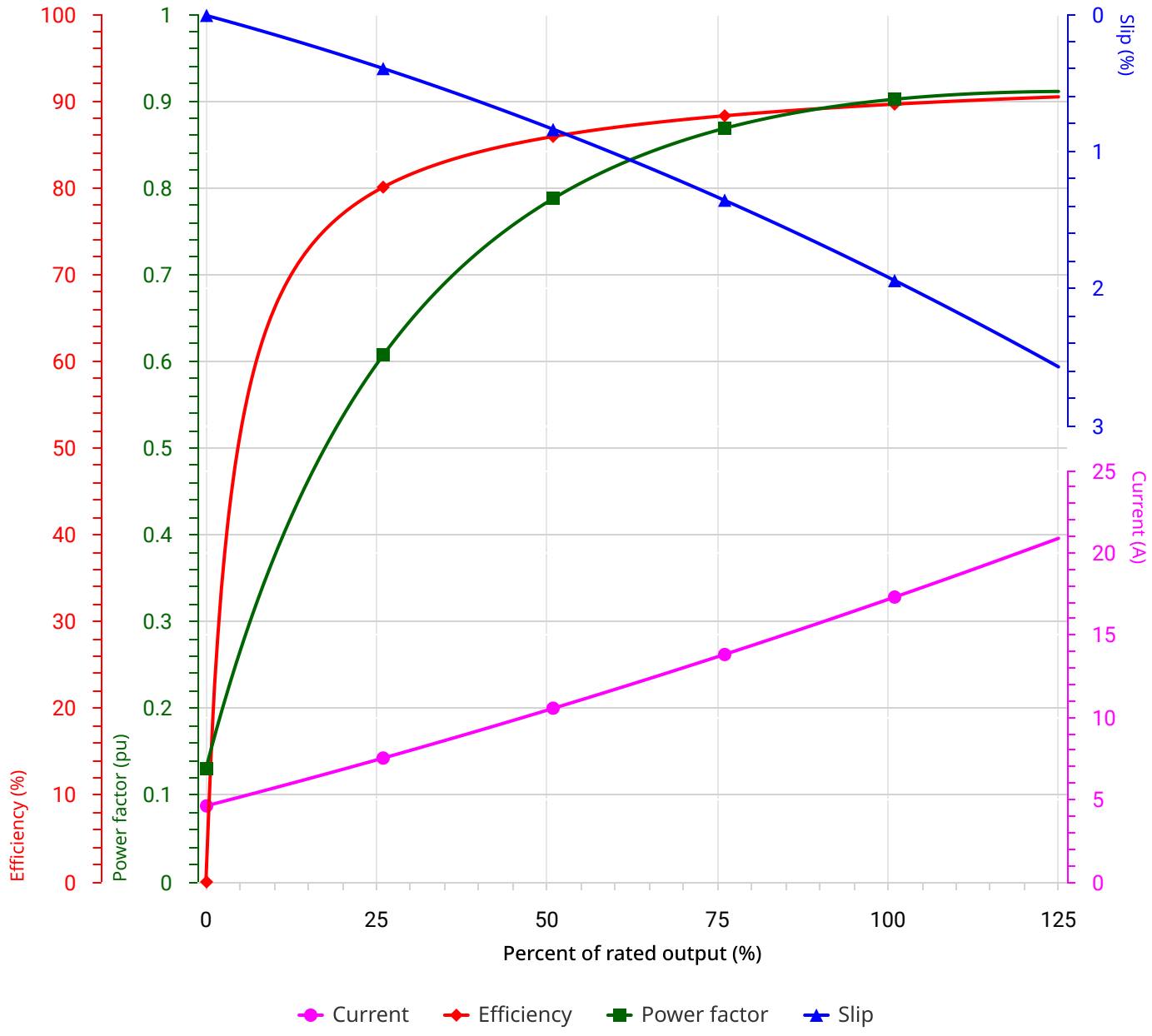
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Special Motor
Product code	: 14643833



Performance	: 7.5 HP (5.5 kW) 230/460V 60Hz 2P 215LP

Rated current	: 17.1/8.57 A	Moment of inertia (J)	: 0.0198 kgm²
LRC	: 7.0 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.54 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Performed by	eduardaa		488473/2018	
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