DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Special Motor
Product code	: 19552940

Frame	: 145HP
Output	: 1.5 HP (1.1 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 208/416 V
Rated current	: 4.84/2.42 A
L. R. Amperes	: 42.1/21.0 A
LRC	: 8.6
No load current	: 3.07/1.53 A
Rated speed	: 1755 rpm
Slip	: 2.50 %
Rated torque	: 0.620 kgfm
Locked rotor torque	: 310 %
Pull up torque	: 290 %
Breakdown torque	: 350 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.004 kgm²

Locked rotor time	: 8 s (hot) 14 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]	: 51 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 24.0 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	82.2	84.9	86.5
Power Factor	0.71	0.50	0.64	0.73

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

	Drive end	Non drive end
Bearing type	6307-ZZ	6204-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Notes:

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)
14.63	12.00	11.97	9.13	6.42	5.31	3.94

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
				08/07/2026

Performed by	msapatini	206631/2026	
Checked by	AUTOMATICO	Page	Revision
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LOAD PERFORMANCE CURVE

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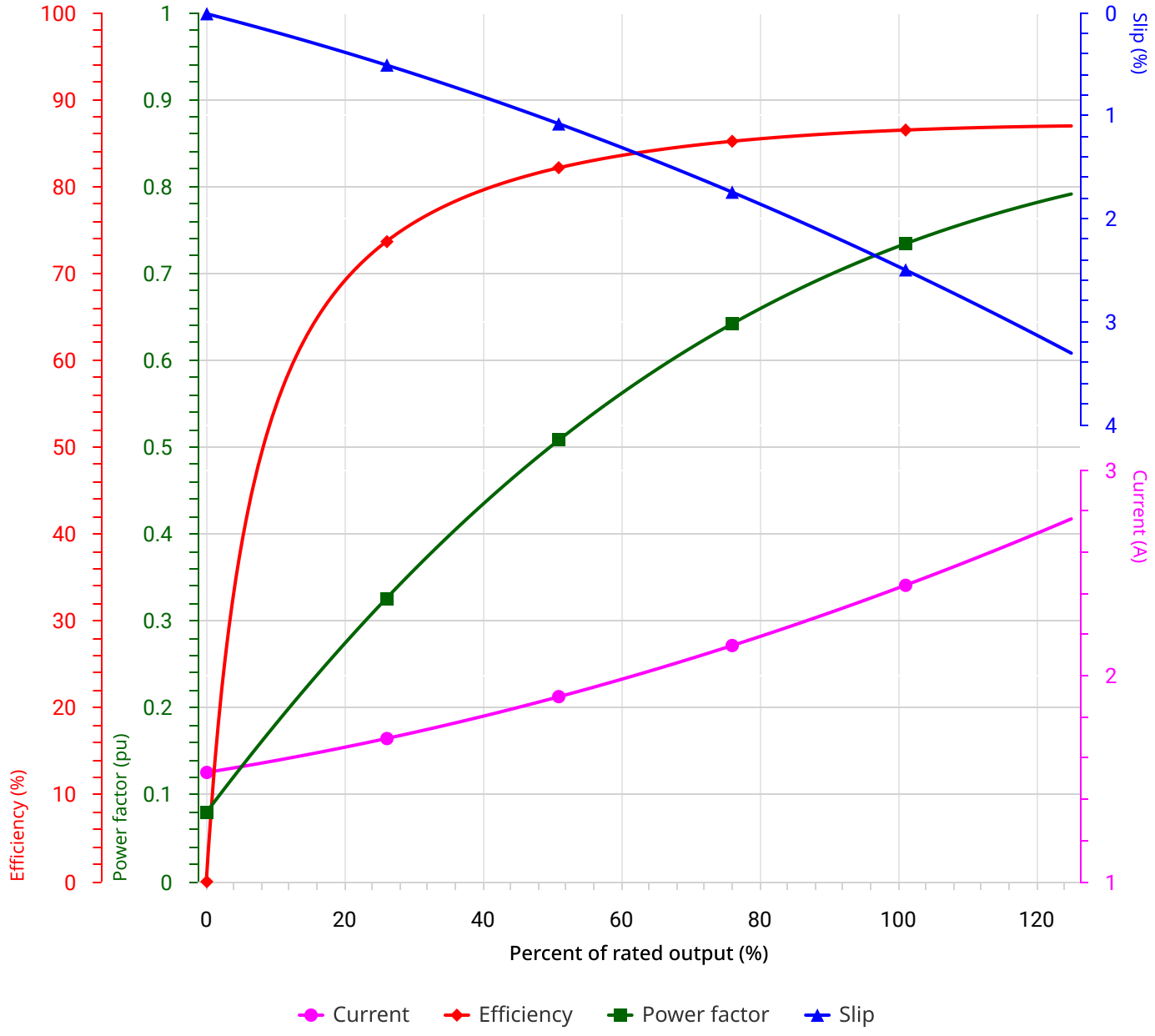
Customer	:
Product line	: Special Motor
Product code	: 19552940



Performance	: 1.5 HP (1.1 kW) 208/416V 60Hz 4P 145HP

Rated current	: 4.84/2.42 A	Moment of inertia (J)	: 0.004 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.620 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm	Design	: B

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Performed by	msapatini		206631/2026	
Checked by	AUTOMATICO		Page	Revision
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