DATA SHEET

Single Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Special Motor
Product code	: 13985856

Frame	: 213/5T
Output	: 3 HP (2.2 kW)
Poles	: 6
Frequency	: 60 Hz
Rated voltage	: 208-115/230 V
Rated current	: 17.3-31.0/15.5 A
L. R. Amperes	: 82.7/164/82.2 A
LRC	: 5.3
No load current	: 6.50/13.2/6.60 A
Rated speed	: 1160 rpm
Slip	: 3.33 %
Rated torque	: 1.88 kgfm
Locked rotor torque	: 155 %
Pull up torque	: 130 %
Breakdown torque	: 160 %
Insulation class	: F
Service factor	: 1.00
Moment of inertia (J)	: 0.0541 kgm²

Locked rotor time	: 6 s (hot) 11 s (cold)
Duty cycle	: S1
Ambient temperature	: -20 °C to +40 °C
Altitude	: 1000 m.a.s.l
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: B3R(D)
Rotation[1]	: Both
Starting method	: Direct On Line
Approx. weight[3]	: 66.0 kg

Output	Start	50%	75%	100%
Efficiency (%)	-	60.7	68.8	70.6
Power Factor	0.00	0.81	0.88	0.9

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	

Foundation loads	
Max. traction	: -
Max. compression	: -

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00

Standards

Specification	: MG1 - Part 10	Vibration	:
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 without tolerance.
(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
				06/07/2020

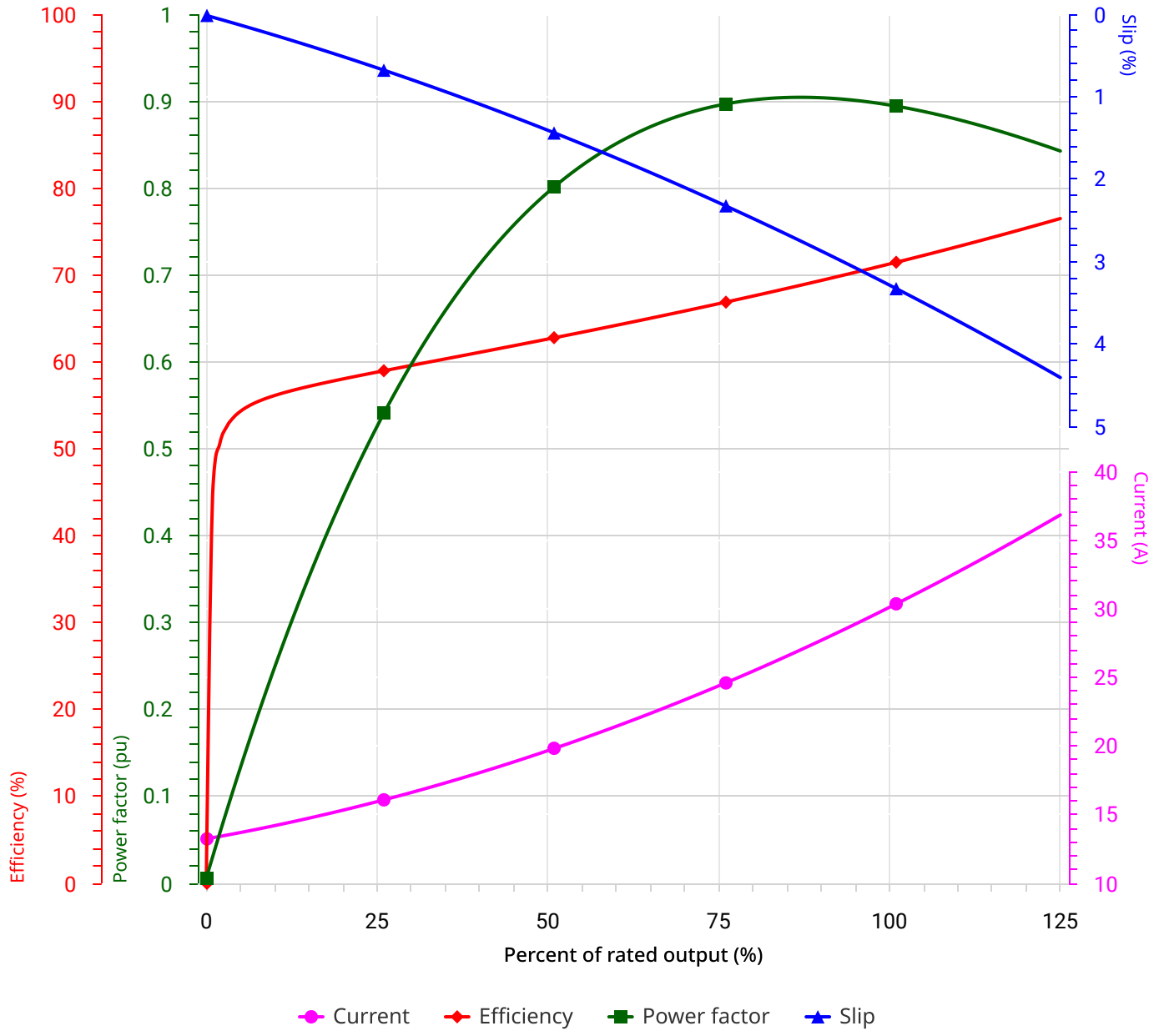
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Special Motor
Product code	: 13985856



Performance	: 3 HP (2.2 kW) 208/115/230V 60Hz 6P 213/5T

Rated current	: 17.3/31.0/15.5 A	Moment of inertia (J)	: 0.0541 kgm²
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 1.88 kgfm	Insulation class	: F
Locked rotor torque	: 155 %	Service factor	: 1.00
Breakdown torque	: 160 %	Temperature rise	: 105 K
Rated speed	: 1160 rpm		

Rev.	Changes Summary	Performed	Checked	Date
				06/07/2020

Performed by	marceloal		78643/2017	
Checked by	elianes		Page	Revision
Date	06/07/2020		2/2	5

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