DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Special Motor
Product code	: 15686551

Frame	: 182LP
Output	: 3 HP (2.2 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 460-230 V
Rated current	: 3.76-7.51 A
L. R. Amperes	: 31.6-63.1 A
LRC	: 8.4
No load current	: 1.40-2.80 A
Rated speed	: 3515 rpm
Slip	: 2.36 %
Rated torque	: 0.619 kgfm
Locked rotor torque	: 260 %
Pull up torque	: 220 %
Breakdown torque	: 380 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.0059 kgm²

Locked rotor time	: 30 s (hot) 54 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
Noise level[2]	: 69 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 65.0 kg
Design	: B

Output	Start	50%	75%	100%
Efficiency (%)	-	78.5	84.0	86.5
Power Factor	0.48	0.72	0.81	0.85

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

	Drive end	Non drive end
Bearing type	6206	7306BECB
Bearing type #2	-	7306BECB
Lubrication interval	13463 h	8437 h
Lubricant amount	5 g	7 g
Lubricant amount #2	-	7 g
Lubricant type	MOBIL POLYREX EM	

Notes:
See notes on page 2.

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
				16/10/2020

Performed by	yasmim		333147/2020	
Checked by	AUTOMATICO		Page	Revision
Date	16/10/2020		1/3	2

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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Special Motor
Product code	: 15686551

Notes:
In Line Extra Thrust
NEMA Premium Efficiency

For use on PWM, VT 1000:1, CT: 20:1, 1.0SF, FDTF.

Standards				
	Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
	Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
	Noise	: MG1 - Part 9		

Rev.	Changes Summary	Performed	Checked	Date
				16/10/2020

Performed by	yasmim		333147/2020	
Checked by	AUTOMATICO		Page	Revision
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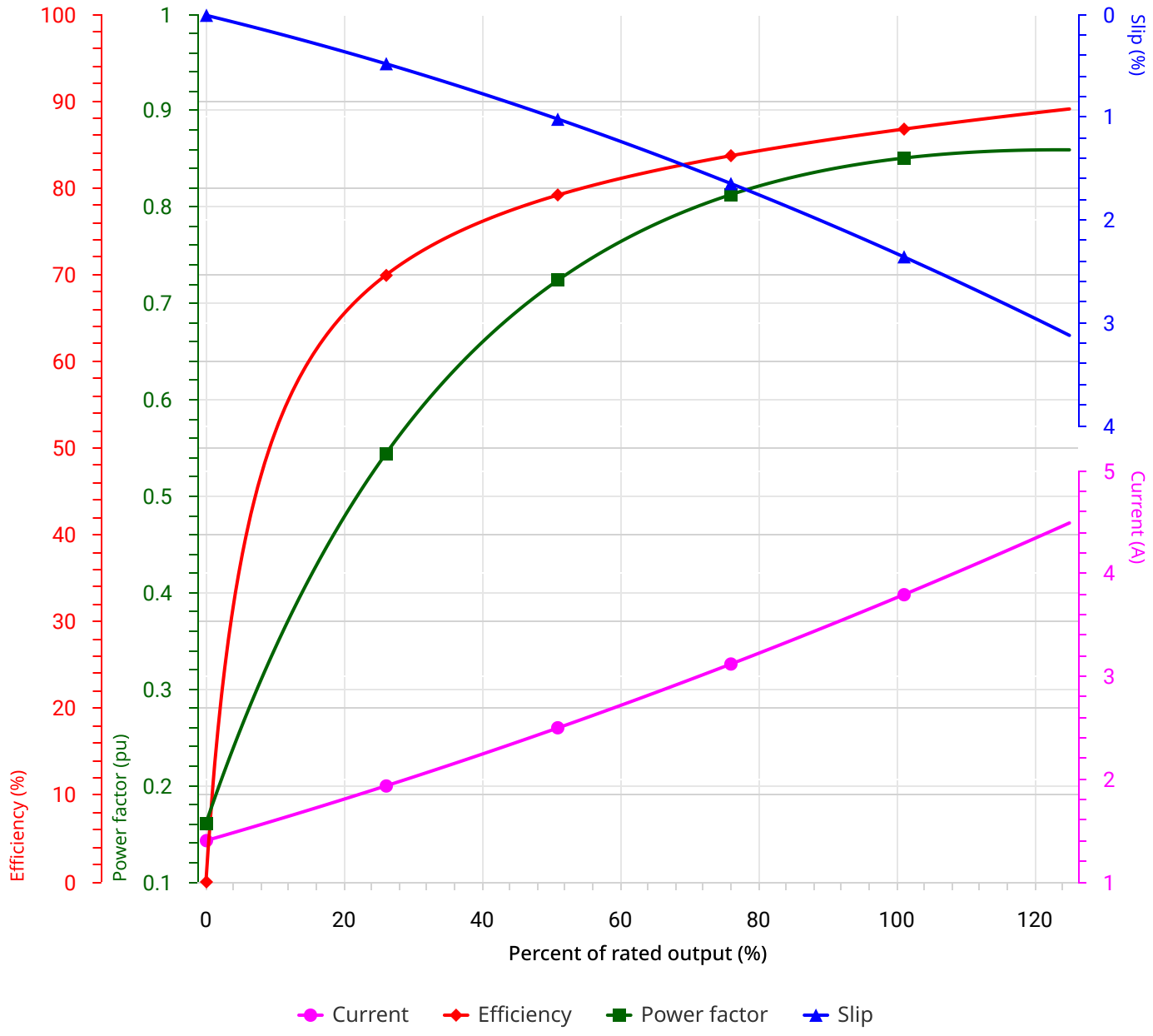
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Special Motor
Product code	: 15686551



Performance	: 3 HP (2.2 kW) 460/230/208V 60Hz 2P 182LP		
Rated current	: 3.76/7.51/8.31 A	Moment of inertia (J)	: 0.0059 kgm²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Performed by	yasmim		333147/2020	
Checked by	AUTOMATICO		Page	Revision
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