DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Special Motor

Frame	: 254/6JM	Locked rotor time	: 18 s (hot) 32 s (cold)
Output	: 25 HP (18.5 kW)	Temperature rise[4]	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l
Rated current	: 22.5 A	Protection degree	: IP55
L. R. Amperes	: 144 A	Cooling method	: IC411 - TEFC
LRC	: 6.4 Code G	Mounting	: B34R(D)
No load current	: 5.00 A	Rotation[1]	: Both
Rated speed	: 3515 rpm	Noise level[2]	: 72 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 5.16 kgfm	Approx. weight[3]	: 148 kg
Locked rotor torque	: 180 %	Design	: B
Pull up torque	: 150 %		
Breakdown torque	: 230 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0804 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	91.0	91.7	91.7
Power Factor	0.00	0.83	0.88	0.9

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

	Drive end	Non drive end
Bearing type	6309-C3	6209-C3
Lubrication interval	19000 h	20000 h
Lubricant amount	13 g	9 g
Lubricant type	MOBIL POLYREX EM	

Notes:
W22 - 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
				13/02/2023

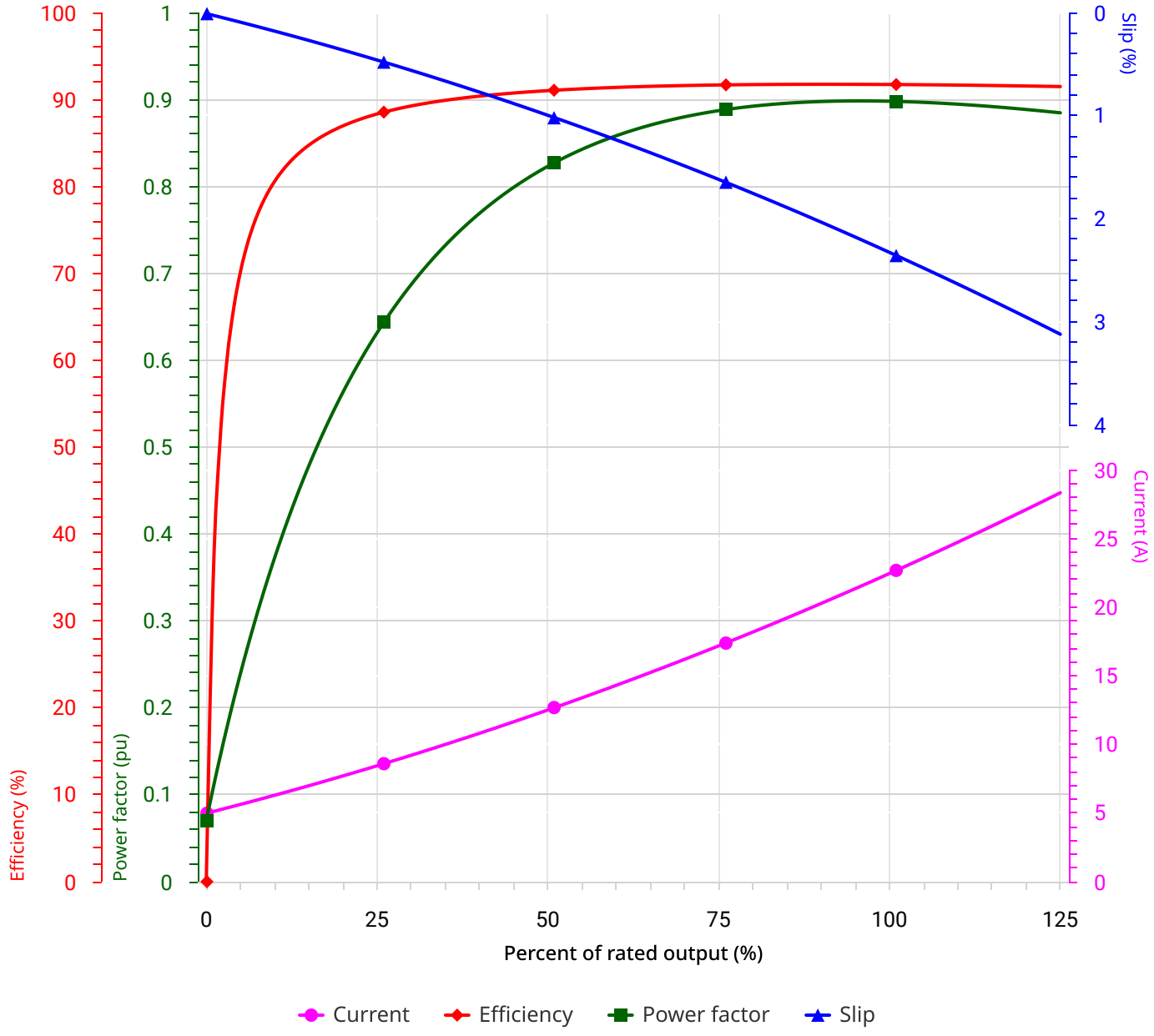
Performed by	sheylane	28091/2017	
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Special Motor



Performance	: 25 HP (18.5 kW) 575V 60Hz 2P 254/6JM

Rated current	: 22.5 A	Moment of inertia (J)	: 0.0804 kgm²
LRC	: 6.4 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 5.16 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Performed by	sheylane		28091/2017	
Checked by	elianes		Page	Revision
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