DATA SHEET

Single Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Bomba JM
Product code	: 14184284

Frame	: 143/5JM	Locked rotor time	: 7 s (hot) 13 s (cold)
Output	: 3 HP (2.2 kW)	Duty cycle	: S1
Poles	: 2	Ambient temperature	: -20 °C to +40 °C
Frequency	: 60 Hz	Altitude	: 1000 m.a.s.l
Rated voltage	: 115/208-230 V	Protection degree	: IP55
Rated current	: 25.0/13.6-12.5 A	Cooling method	: IC411 - TEFC
L. R. Amperes	: 180/90.0 A	Mounting	: B34R(D)
LRC	: 7.2 Code H	Rotation[1]	: Both
No load current	: 5.80/2.90 A	Noise level[2]	: 69 dB(A)
Rated speed	: 3515 rpm	Starting method	: Direct On Line
Slip	: 2.36 %	Approx. weight[3]	: 27.5 kg
Rated torque	: 0.619 kgfm	Design	:
Locked rotor torque	: 220 %		
Pull up torque	: 185 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0028 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	72.5	76.0	78.5
Power Factor	0.80	0.96	0.97	0.97

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

	Drive end	Non drive end
Bearing type	6206-ZZ	6203-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

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

Notes:

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 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
				2026/11/20

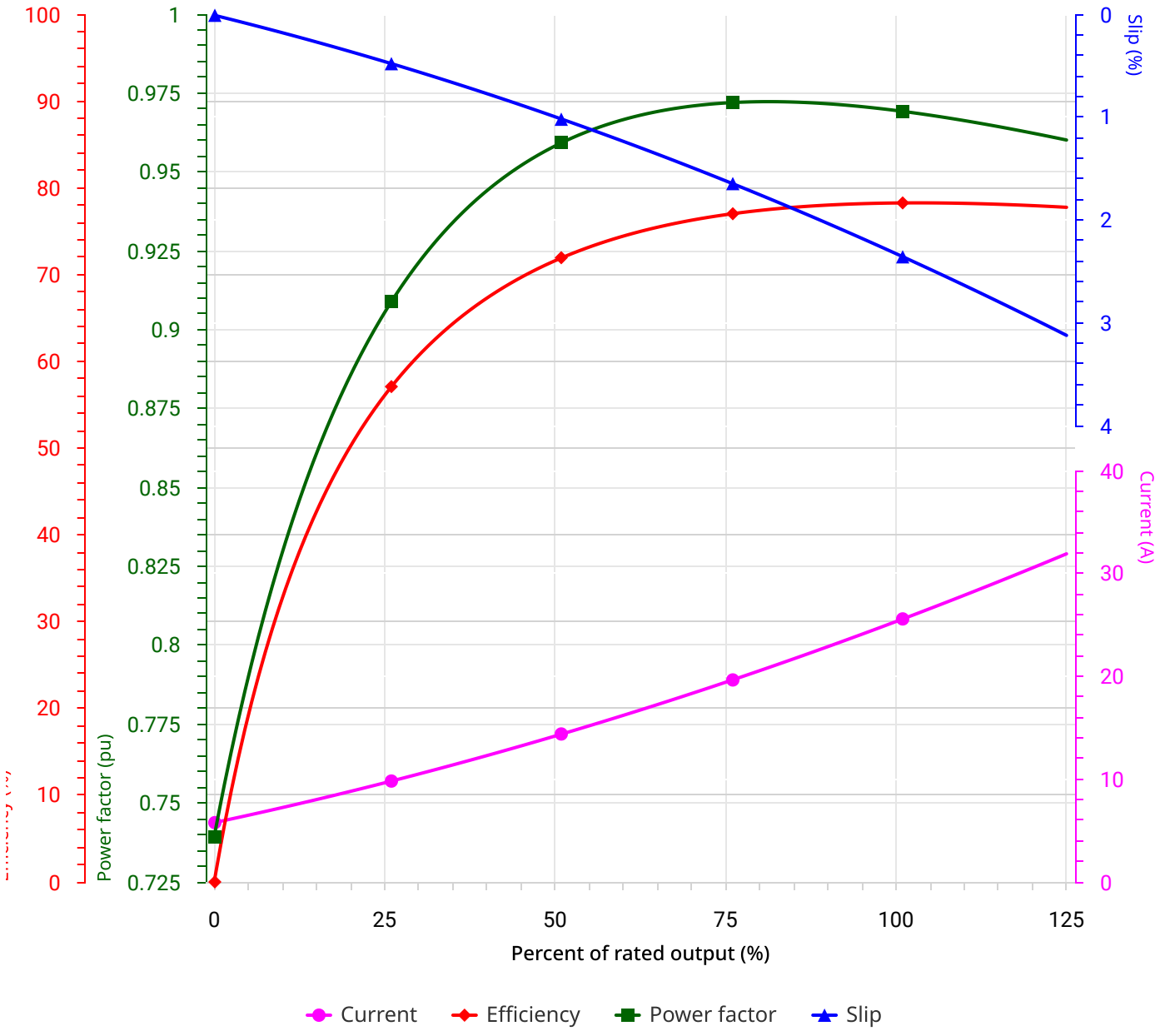
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Bomba JM
Product code	: 14184284



Performance	: 3 HP (2.2 kW) 115/208/230V 60Hz 2P 143/5JM

Rated current	: 25.0/13.6/12.5 A	Moment of inertia (J)	: 0.0028 kgm²
LRC	: 7.2 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm		

Rev.	Changes Summary	Performed	Checked	Date
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