DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Jet Pump Motors JP - Nema Premium Efficiency - Derating
Product code	: 12377085

Frame	: 284/6JP	Locked rotor time	: 12 s (hot) 22 s (cold)
Output	: 20 HP (15 kW)	Temperature rise[4]	: 105 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l
Rated current	: 29.9 A	Protection degree	: IP55
L. R. Amperes	: 141 A	Cooling method	: IC411 - TEFC
LRC	: 4.7 Code E	Mounting	: B3R(D)
No load current	: 9.40 A	Rotation[1]	: Both
Rated speed	: 965 rpm	Noise level[2]	: 56 dB(A)
Slip	: 3.50 %	Starting method	: Direct On Line
Rated torque	: 15.0 kgfm	Approx. weight[3]	: 193 kg
Locked rotor torque	: 170 %	Design	: B
Pull up torque	: 155 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.3861 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	90.2	90.2	88.5
Power Factor	0.50	0.76	0.83	0.86

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

	Drive end	Non drive end
Bearing type	6311-C3	6211-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	18 g	11 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 329 kgf
Max. compression	: 522 kgf

Notes:

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
				30/10/2025

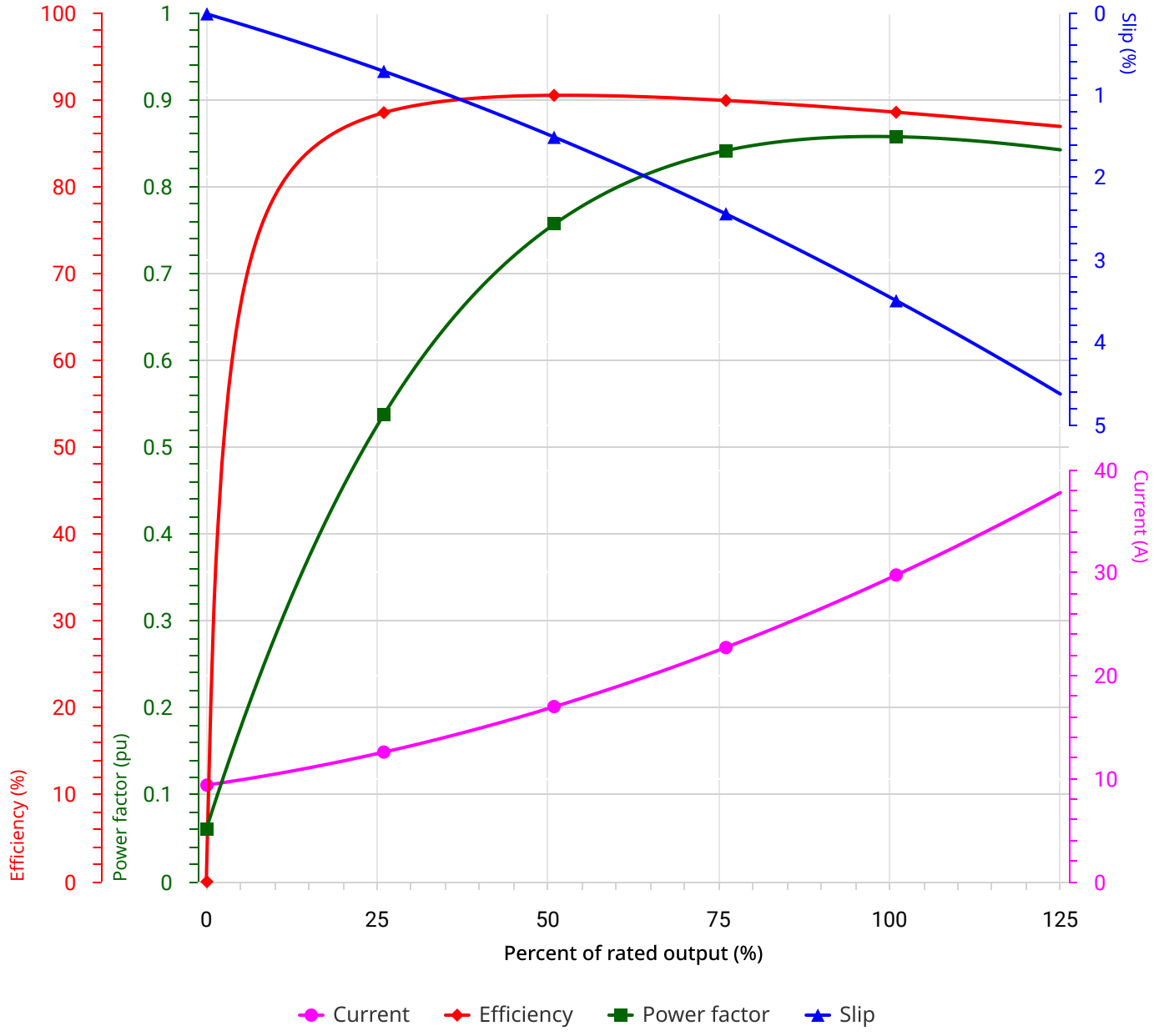
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JP - Nema Premium Efficiency - Derating
Product code	: 12377085



Performance	: 20 HP (15 kW) 380V 50Hz 6P 284/6JP

Rated current	: 29.9 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 4.7 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 15.0 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 965 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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