DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating

Frame	: 213/5JM	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B34R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 72.7 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0197 kgm²
Design	: B		

Output		7.5 HP (5.5 kW)	7.5 HP (5.5 kW)
Poles		2	2
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		17.5/8.76 A	10.6 A
L. R. Amperes		126/63.1 A	60.5 A
LRC		7.2 Code H	5.7 Code F
No load current		5.80/2.90 A	2.90 A
Rated speed		3530 rpm	2910 rpm
Slip		1.94 %	3.00 %
Rated torque		1.54 kgfm	1.87 kgfm
Locked rotor torque		210 %	170 %
Breakdown torque		300 %	230 %
Service factor		1.25	1.25
Temperature rise		80 K	80 K
Noise level		68 dB(A)	63 dB(A)
Locked rotor time		18 s (hot) 32 s (cold)	15 s (hot) 27 s (cold)
Efficiency (%)	50%	87.5	88.5
	75%	89.5	88.5
	100%	89.5	87.5
Power Factor	Start	0.49	0.49
	50%	0.75	0.80
	75%	0.84	0.87
	100%	0.88	0.9
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		11.30	13.76
P2 (0,5;1,0)		9.20	11.20
P3 (0,25;1,0)		8.51	10.36
P4 (0,9;0,5)		5.77	7.02
P5 (0,5;0,5)		3.57	4.35
P6 (0,5;0,25)		2.33	2.84
P7 (0,25;0,25)		1.48	1.81

	Drive end	Non drive end
Bearing type	6309-Z-C3	6207-ZZ
Lubrication interval	19000 h	-
Lubricant amount	13 g	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 48 kgf
Max. compression : 121 kgf

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/12

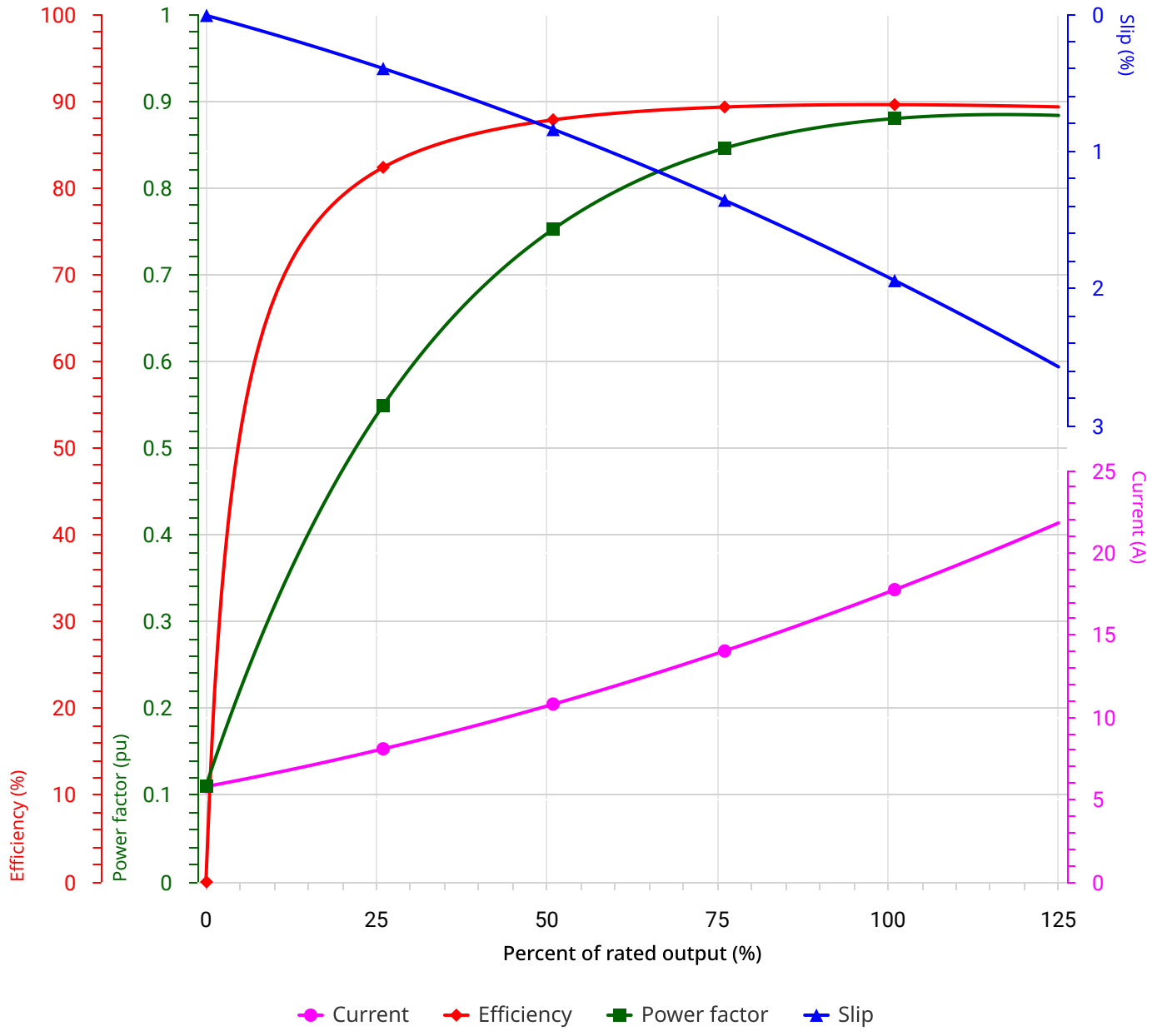
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 2P 213/5JM

Rated current	: 19.4/17.5/8.76 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 7.2 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.54 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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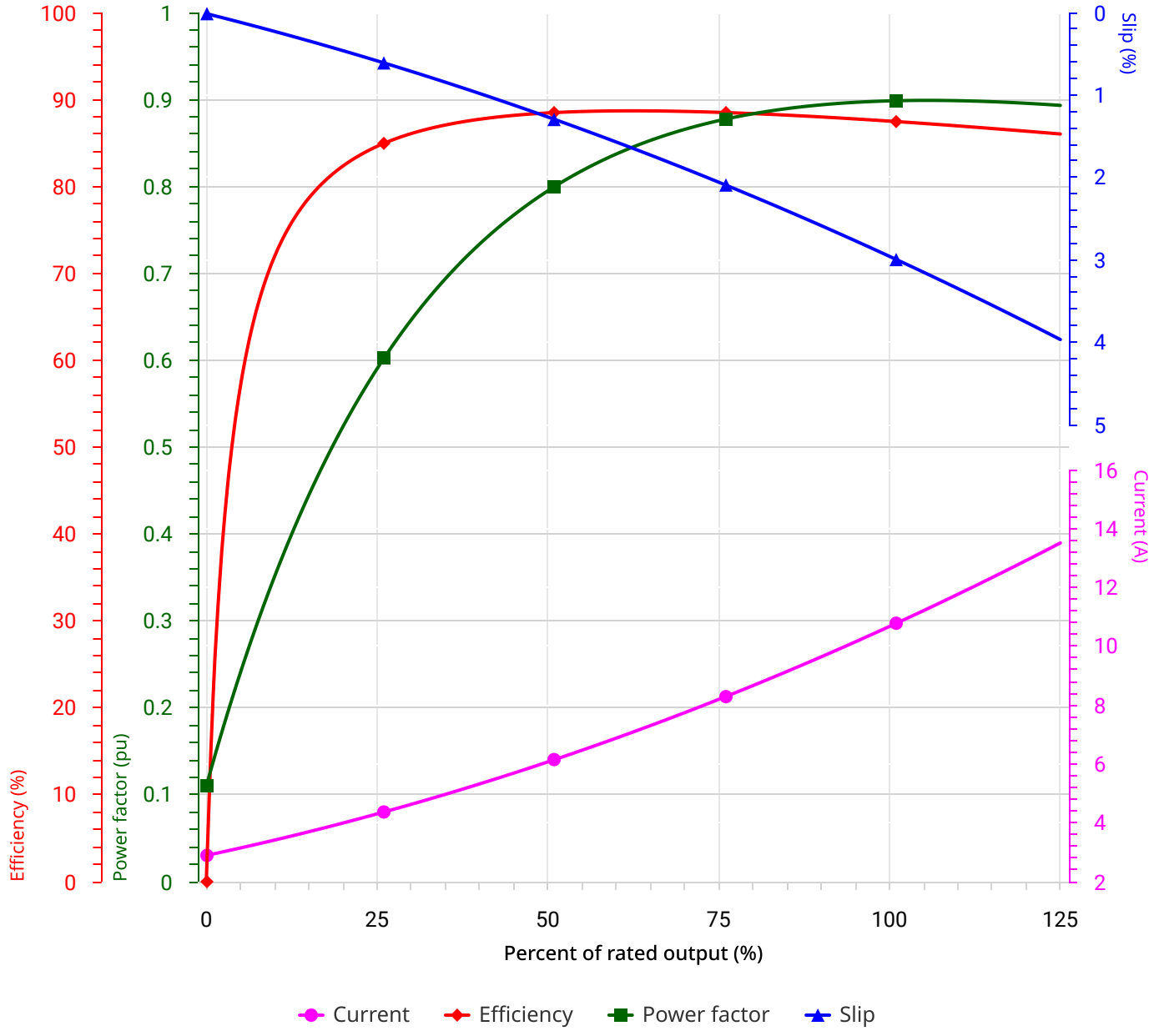
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating



Performance	: 7.5 HP (5.5 kW) 380V 50Hz 2P 213/5JM

Rated current	: 10.6 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 5.7 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 1.87 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.25
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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