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	: 83.7 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0637 kgm²
Design	: B		

Output		10 HP (7.5 kW)	10 HP (7.5 kW)
Poles		4	4
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		25.3/12.7 A	15.1 A
L. R. Amperes		162/81.1 A	90.9 A
LRC		6.4 Code H	6.0 Code G
No load current		11.6/5.80 A	5.60 A
Rated speed		1765 rpm	1450 rpm
Slip		1.94 %	3.33 %
Rated torque		4.11 kgfm	5.01 kgfm
Locked rotor torque		240 %	165 %
Breakdown torque		295 %	220 %
Service factor		1.25	1.15
Temperature rise		80 K	80 K
Noise level		58 dB(A)	56 dB(A)
Locked rotor time		17 s (hot) 31 s (cold)	14 s (hot) 25 s (cold)
Efficiency (%)	50%	91.0	88.0
	75%	91.7	88.5
	100%	91.7	88.5
Power Factor	Start	0.43	0.51
	50%	0.65	0.72
	75%	0.76	0.81
	100%	0.81	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		8.78	12.61
P2 (0,5;1,0)		7.32	10.51
P3 (0,25;1,0)		7.08	10.17
P4 (0,9;0,5)		4.57	6.57
P5 (0,5;0,5)		3.16	4.54
P6 (0,5;0,25)		2.23	3.20
P7 (0,25;0,25)		1.55	2.22

	Drive end	Non drive end
Bearing type	6309-Z-C3	6207-ZZ
Lubrication interval	20000 h	-
Lubricant amount	13 g	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 180 kgf
Max. compression : 264 kgf

Notes:

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

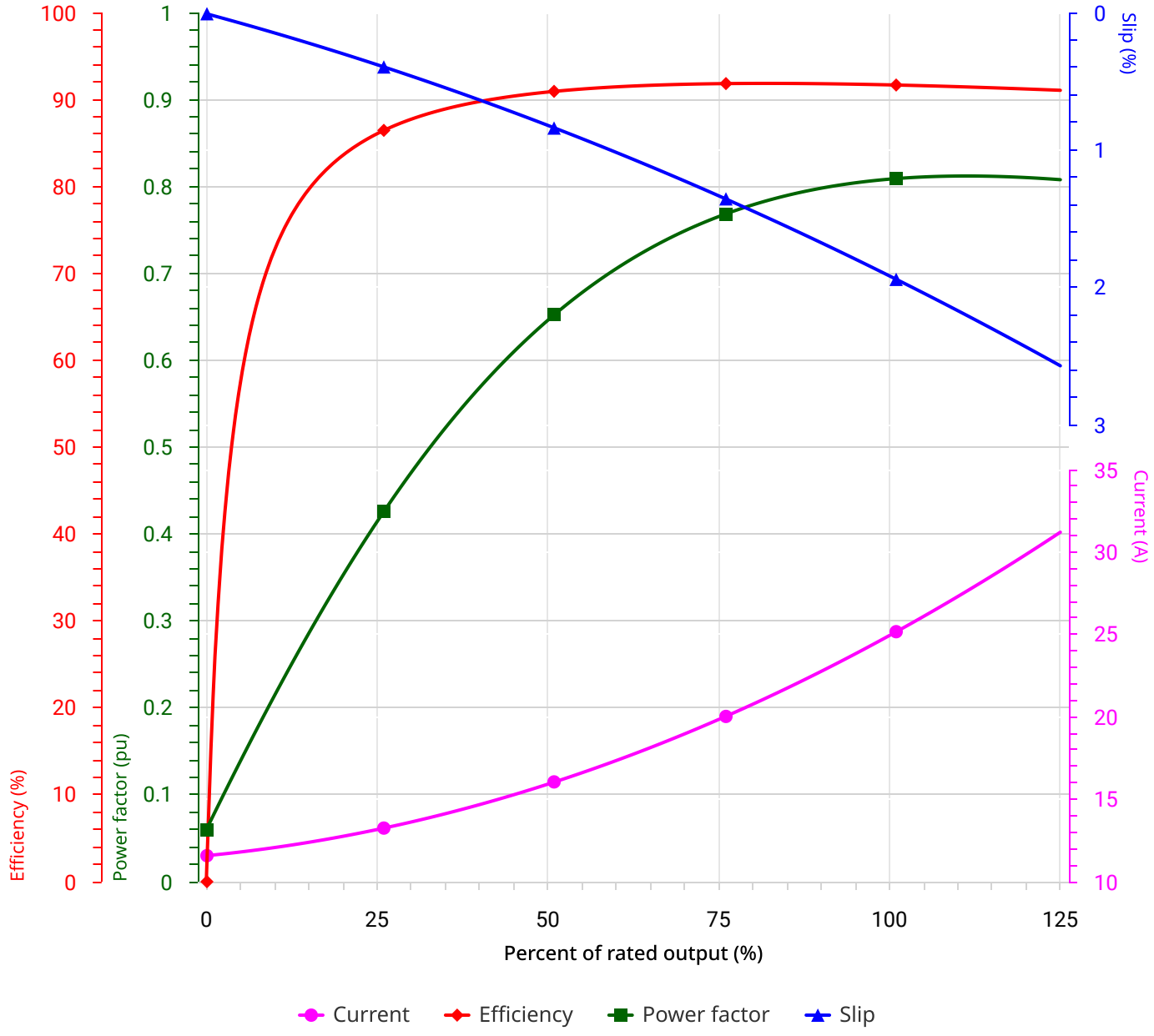
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 10 HP (7.5 kW) 208/230/460V 60Hz 4P 213/5JM

Rated current	: 27.4/25.3/12.7 A	Moment of inertia (J)	: 0.0637 kgm²
LRC	: 6.4 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 4.11 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 295 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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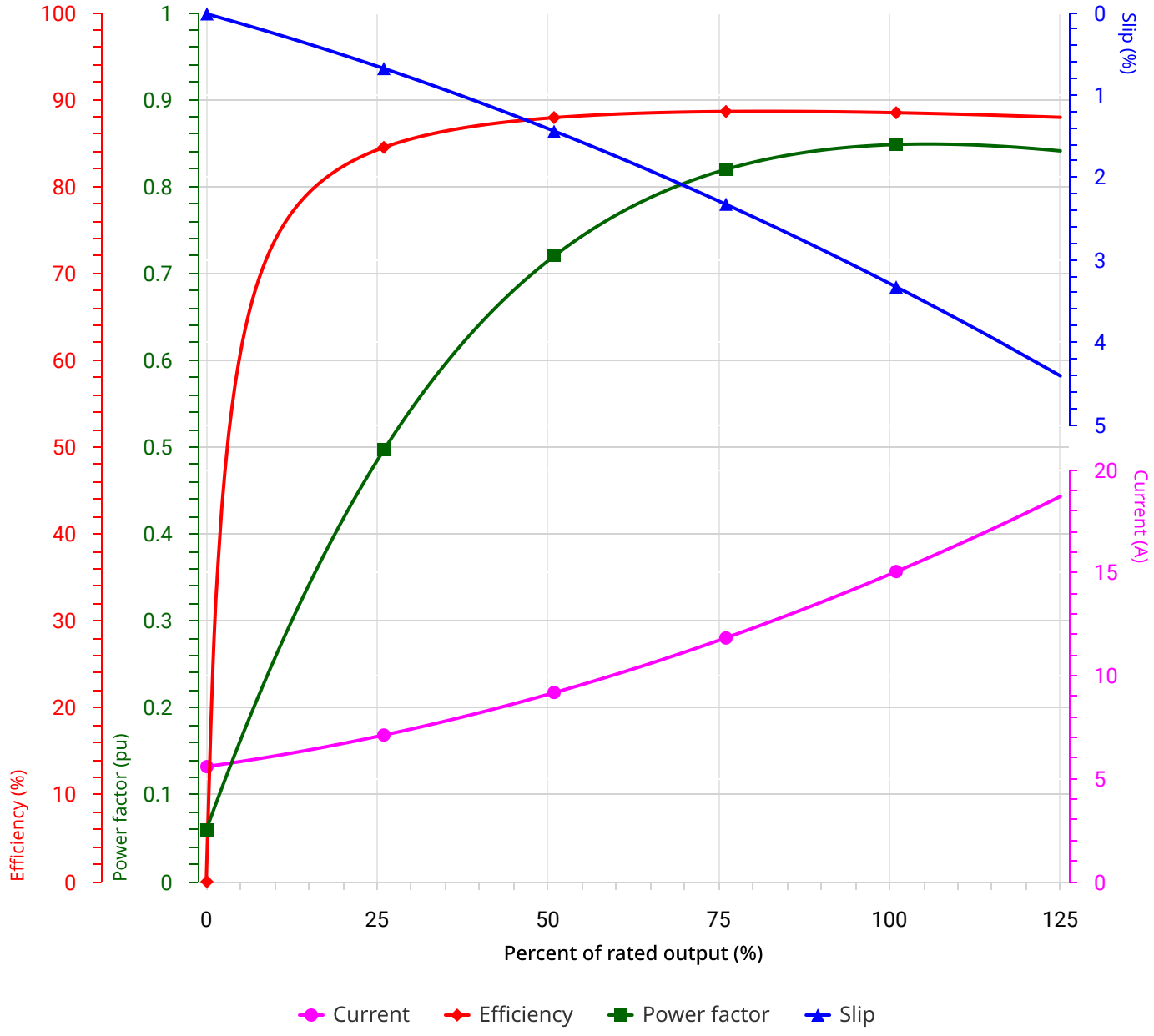
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 10 HP (7.5 kW) 380V 50Hz 4P 213/5JM

Rated current	: 15.1 A	Moment of inertia (J)	: 0.0637 kgm²
LRC	: 6.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 5.01 kgfm	Insulation class	: F
Locked rotor torque	: 165 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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