DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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

Frame	: 324/6JM	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	: 223 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.3861 kgm²
Design	: B		

Output		40 HP (30 kW)	40 HP (30 kW)
Poles		4	4
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		94.2/47.1 A	57.4 A
L. R. Amperes		574/287 A	287 A
LRC		6.1 Code G	5.0 Code E
No load current		34.6/17.3 A	16.8 A
Rated speed		1775 rpm	1460 rpm
Slip		1.39 %	2.67 %
Rated torque		16.4 kgfm	19.9 kgfm
Locked rotor torque		230 %	170 %
Breakdown torque		240 %	200 %
Service factor		1.25	1.00
Temperature rise		80 K	105 K
Noise level		66 dB(A)	63 dB(A)
Locked rotor time		20 s (hot) 36 s (cold)	11 s (hot) 20 s (cold)
Efficiency (%)	50%	93.6	93.6
	75%	94.1	93.0
	100%	94.1	92.4
Power Factor	Start	0.41	0.41
	50%	0.72	0.77
	75%	0.80	0.84
	100%	0.85	0.86
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		6.24	8.18
P2 (0,5;1,0)		5.43	7.12
P3 (0,25;1,0)		4.92	6.46
P4 (0,9;0,5)		2.79	3.66
P5 (0,5;0,5)		2.02	2.66
P6 (0,5;0,25)		1.26	1.65
P7 (0,25;0,25)		0.90	1.18

	Drive end	Non drive end
Bearing type	6312-C3	6212-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	21 g	13 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 383 kgf
Max. compression : 606 kgf

Notes:

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

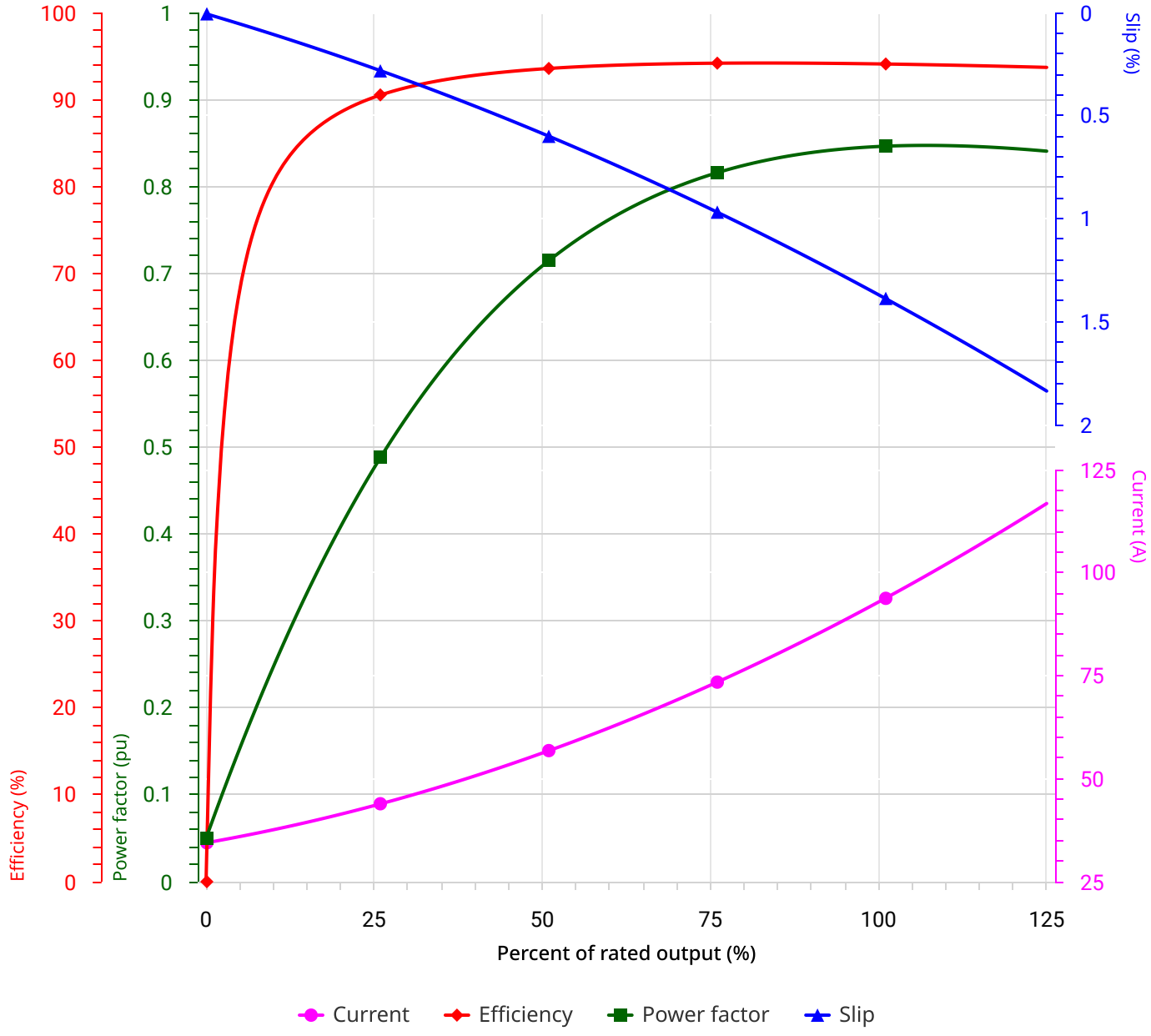
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 40 HP (30 kW) 208/230/460V 60Hz 4P 324/6JM

Rated current	: 104/94.2/47.1 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 16.4 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

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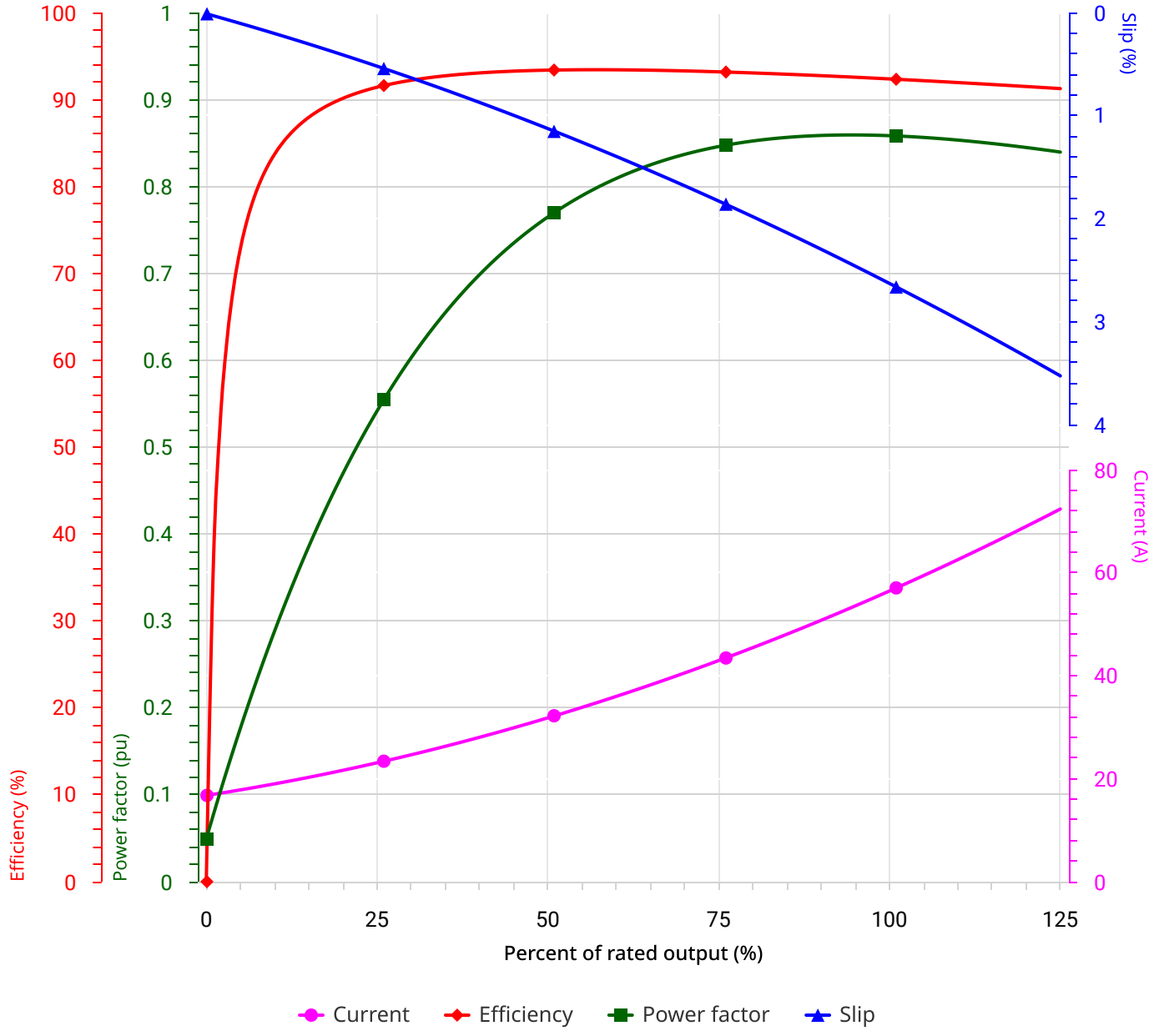
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Three Phase Induction Motor - Squirrel Cage

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



Performance	: 40 HP (30 kW) 380V 50Hz 4P 324/6JM

Rated current	: 57.4 A	Moment of inertia (J)	: 0.3861 kgm²
LRC	: 5.0 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 19.9 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B

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