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	: 257 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.2063 kgm²
Design	: B		

Output		40 HP (30 kW)	40 HP (30 kW)
Poles		2	2
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		95.9/47.9 A	57.6 A
L. R. Amperes		604/302 A	288 A
LRC		6.3 Code G	5.0 Code E
No load current		31.0/15.5 A	14.4 A
Rated speed		3560 rpm	2940 rpm
Slip		1.11 %	2.00 %
Rated torque		8.15 kgfm	9.87 kgfm
Locked rotor torque		230 %	180 %
Breakdown torque		250 %	200 %
Service factor		1.25	1.00
Temperature rise		80 K	105 K
Noise level		76 dB(A)	72 dB(A)
Locked rotor time		22 s (hot) 40 s (cold)	15 s (hot) 27 s (cold)
Efficiency (%)	50%	91.7	91.7
	75%	92.4	91.7
	100%	92.4	91.0
Power Factor	Start	0.43	0.43
	50%	0.74	0.80
	75%	0.82	0.86
	100%	0.85	0.87
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		7.87	7.62
P2 (0,5;1,0)		5.34	5.17
P3 (0,25;1,0)		4.44	4.30
P4 (0,9;0,5)		5.31	5.14
P5 (0,5;0,5)		2.89	2.80
P6 (0,5;0,25)		2.34	2.26
P7 (0,25;0,25)		1.40	1.35

	Drive end	Non drive end
Bearing type	6312-C3	6212-C3
Lubrication interval	12000 h	15000 h
Lubricant amount	21 g	13 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 125 kgf
Max. compression : 382 kgf

Notes:

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

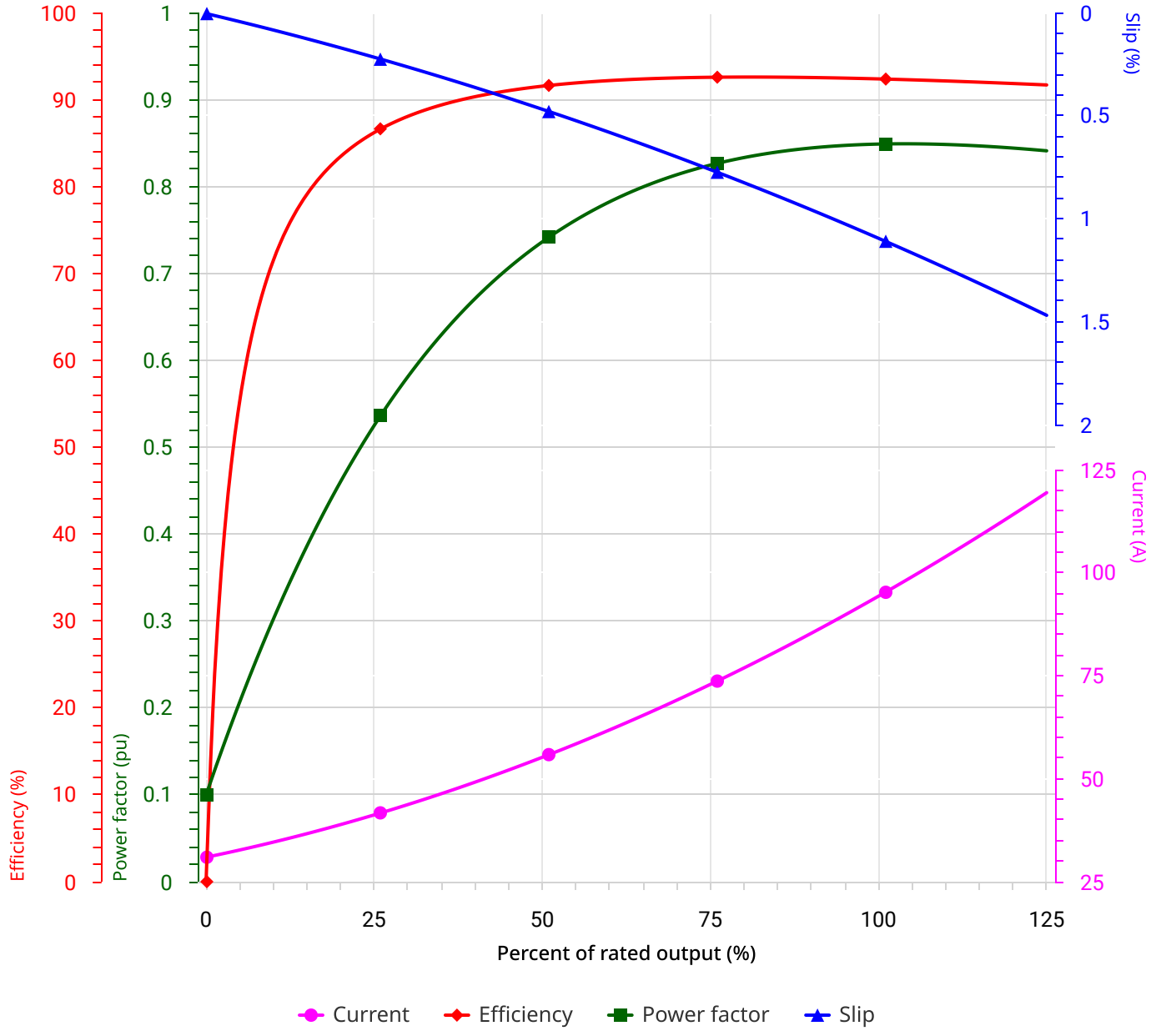
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LOAD PERFORMANCE CURVE

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 2P 324/6JM

Rated current	: 101/95.9/47.9 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 8.15 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

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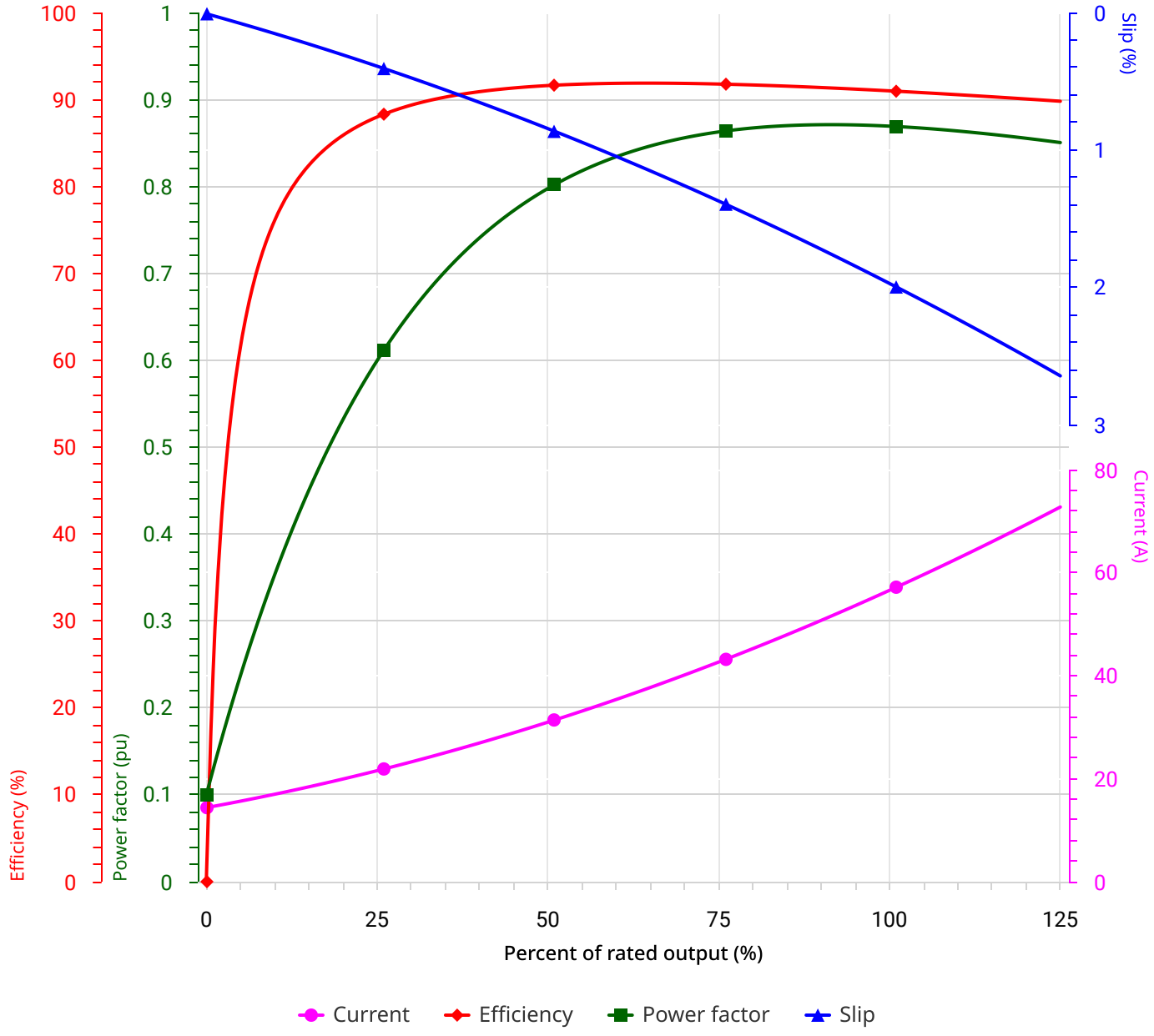
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 40 HP (30 kW) 380V 50Hz 2P 324/6JM

Rated current	: 57.6 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 5.0 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 9.87 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2940 rpm	Design	: B

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