DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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

Frame	: 254/6JM	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	: 142 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1104 kgm²
Design	: B		

Output		15 HP (11 kW)	15 HP (11 kW)
Poles		4	4
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		36.0/18.0 A	21.5 A
L. R. Amperes		230/115 A	106 A
LRC		6.4 Code G	4.9 Code E
No load current		14.6/7.30 A	7.10 A
Rated speed		1770 rpm	1455 rpm
Slip		1.67 %	3.00 %
Rated torque		6.15 kgfm	7.48 kgfm
Locked rotor torque		230 %	160 %
Breakdown torque		250 %	200 %
Service factor		1.25	1.00
Temperature rise		80 K	80 K
Noise level		64 dB(A)	61 dB(A)
Locked rotor time		21 s (hot) 38 s (cold)	15 s (hot) 27 s (cold)
Efficiency (%)	50%	91.0	91.0
	75%	91.7	90.2
	100%	92.4	90.2
Power Factor	Start	0.48	0.48
	50%	0.68	0.74
	75%	0.78	0.82
	100%	0.83	0.86
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		8.07	10.66
P2 (0,5;1,0)		6.99	9.24
P3 (0,25;1,0)		6.54	8.64
P4 (0,9;0,5)		3.90	5.16
P5 (0,5;0,5)		2.76	3.64
P6 (0,5;0,25)		1.82	2.41
P7 (0,25;0,25)		1.32	1.74

	Drive end	Non drive end
Bearing type	6309-C3	6209-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	9 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 168 kgf
Max. compression : 310 kgf

Notes:

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

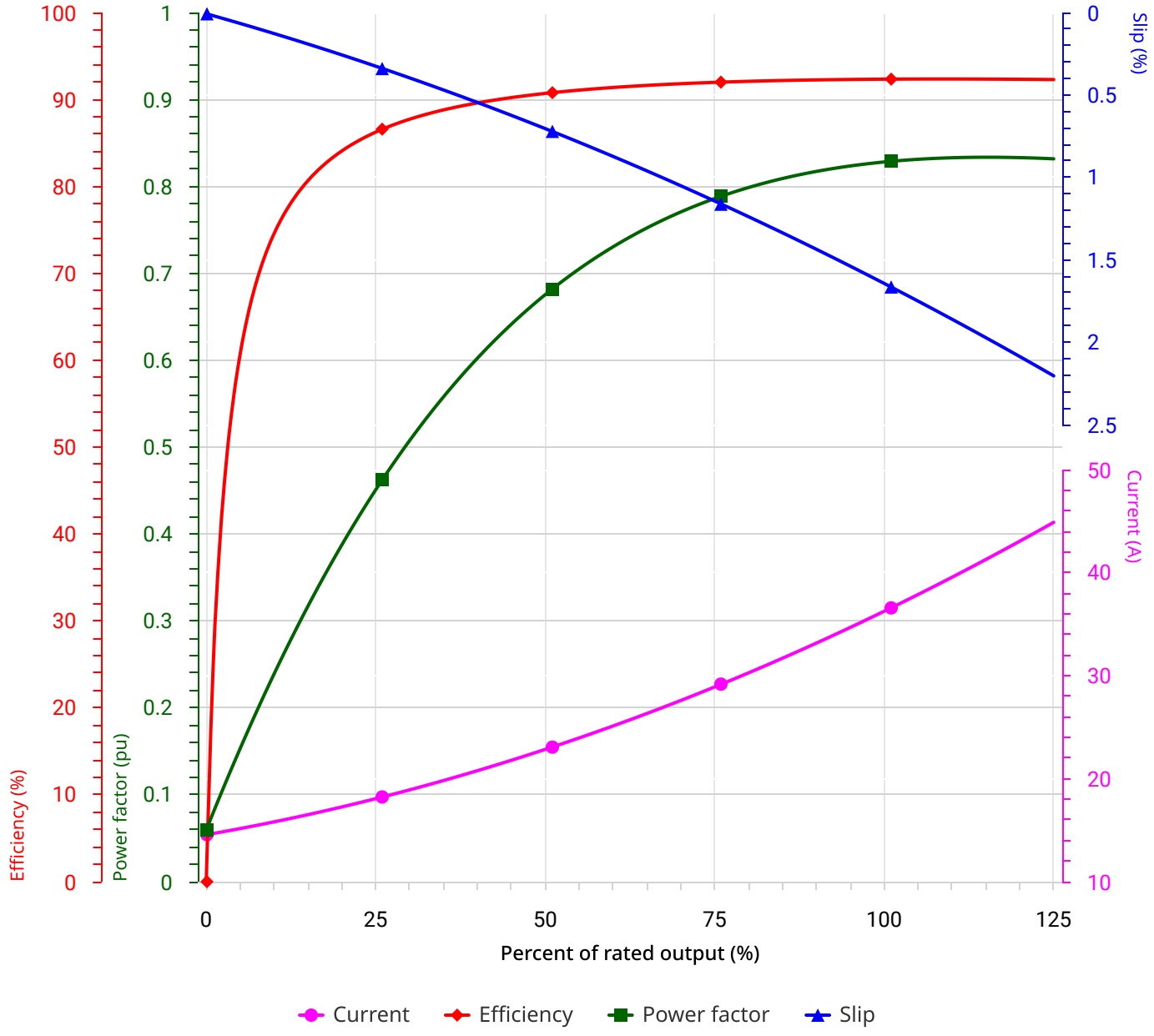
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 15 HP (11 kW) 208/230/460V 60Hz 4P 254/6JM

Rated current	: 39.8/36.0/18.0 A	Moment of inertia (J)	: 0.1104 kgm²
LRC	: 6.4 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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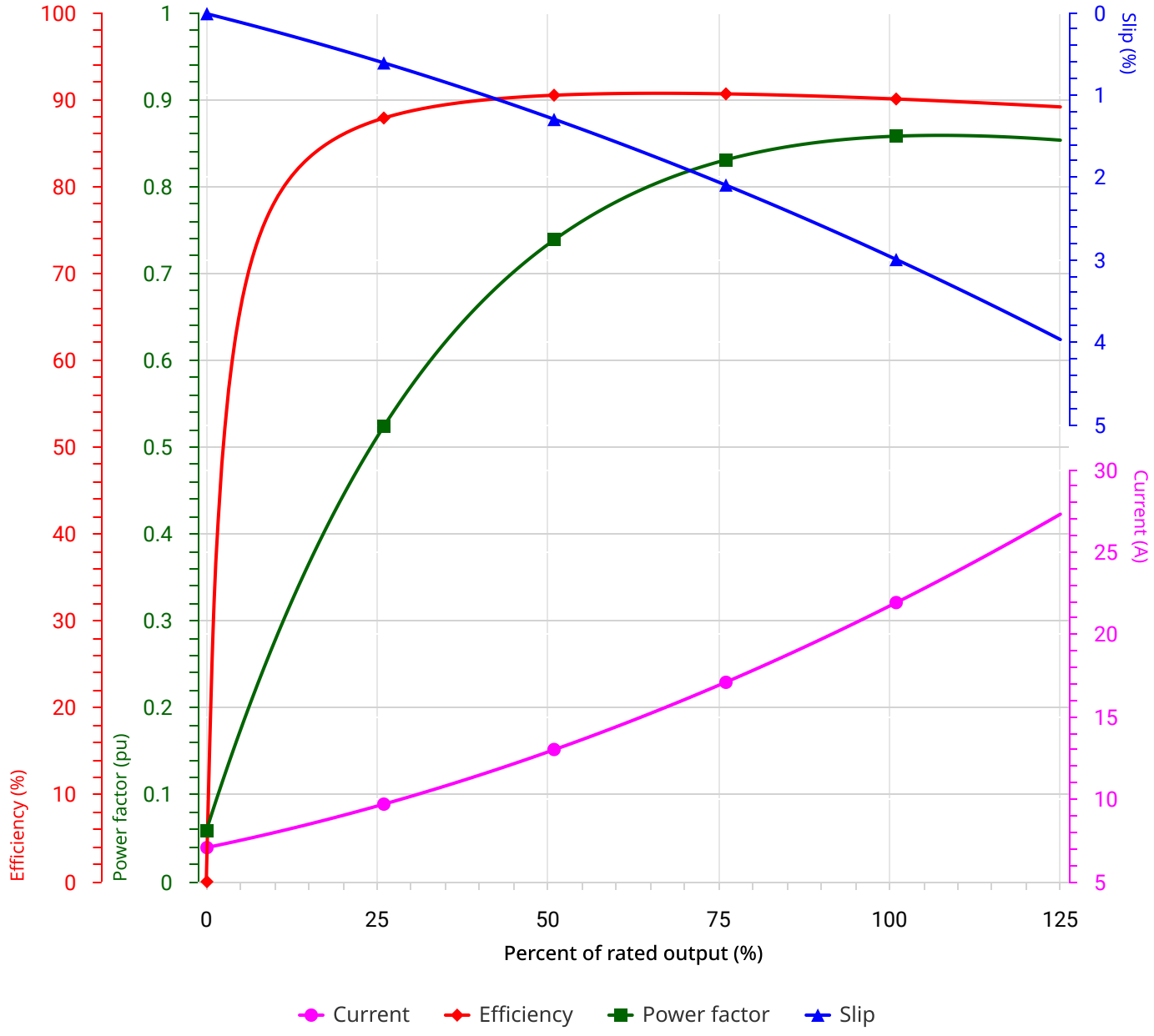
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 15 HP (11 kW) 380V 50Hz 4P 254/6JM

Rated current	: 21.5 A	Moment of inertia (J)	: 0.1104 kgm²
LRC	: 4.9 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 7.48 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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