DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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

Frame	: 284/6JP	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	: 209 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.2467 kgm²
Design	: B		

Output		30 HP (22 kW)	30 HP (22 kW)
Poles		4	4
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		70.2/35.1 A	43.1 A
L. R. Amperes		428/214 A	228 A
LRC		6.1 Code G	5.3 Code F
No load current		24.6/12.3 A	12.2 A
Rated speed		1770 rpm	1455 rpm
Slip		1.67 %	3.00 %
Rated torque		12.3 kgfm	15.0 kgfm
Locked rotor torque		240 %	170 %
Breakdown torque		240 %	200 %
Service factor		1.25	1.00
Temperature rise		80 K	105 K
Noise level		63 dB(A)	61 dB(A)
Locked rotor time		20 s (hot) 36 s (cold)	13 s (hot) 23 s (cold)
Efficiency (%)	50%	93.0	90.0
	75%	93.0	90.2
	100%	93.6	90.2
Power Factor	Start	0.45	0.45
	50%	0.70	0.76
	75%	0.80	0.83
	100%	0.84	0.86
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		6.77	6.77
P2 (0,5;1,0)		5.80	5.80
P3 (0,25;1,0)		5.23	5.23
P4 (0,9;0,5)		3.09	3.09
P5 (0,5;0,5)		2.18	2.18
P6 (0,5;0,25)		1.36	1.36
P7 (0,25;0,25)		0.95	0.95

	Drive end	Non drive end
Bearing type	6311-C3	6211-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	18 g	11 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 318 kgf
Max. compression : 527 kgf

Notes:

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

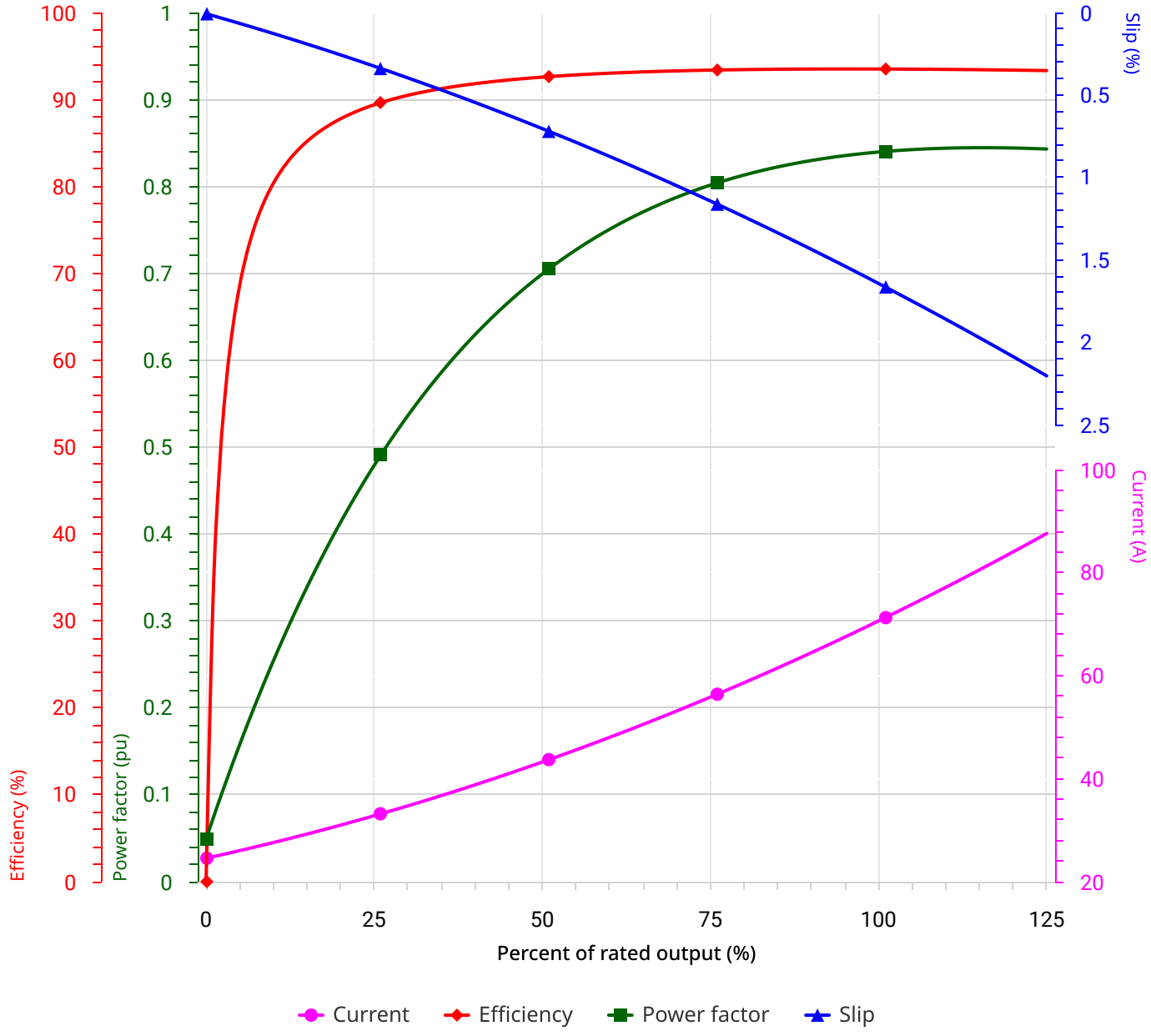
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 30 HP (22 kW) 208/230/460V 60Hz 4P 284/6JP

Rated current	: 77.6/70.2/35.1 A	Moment of inertia (J)	: 0.2467 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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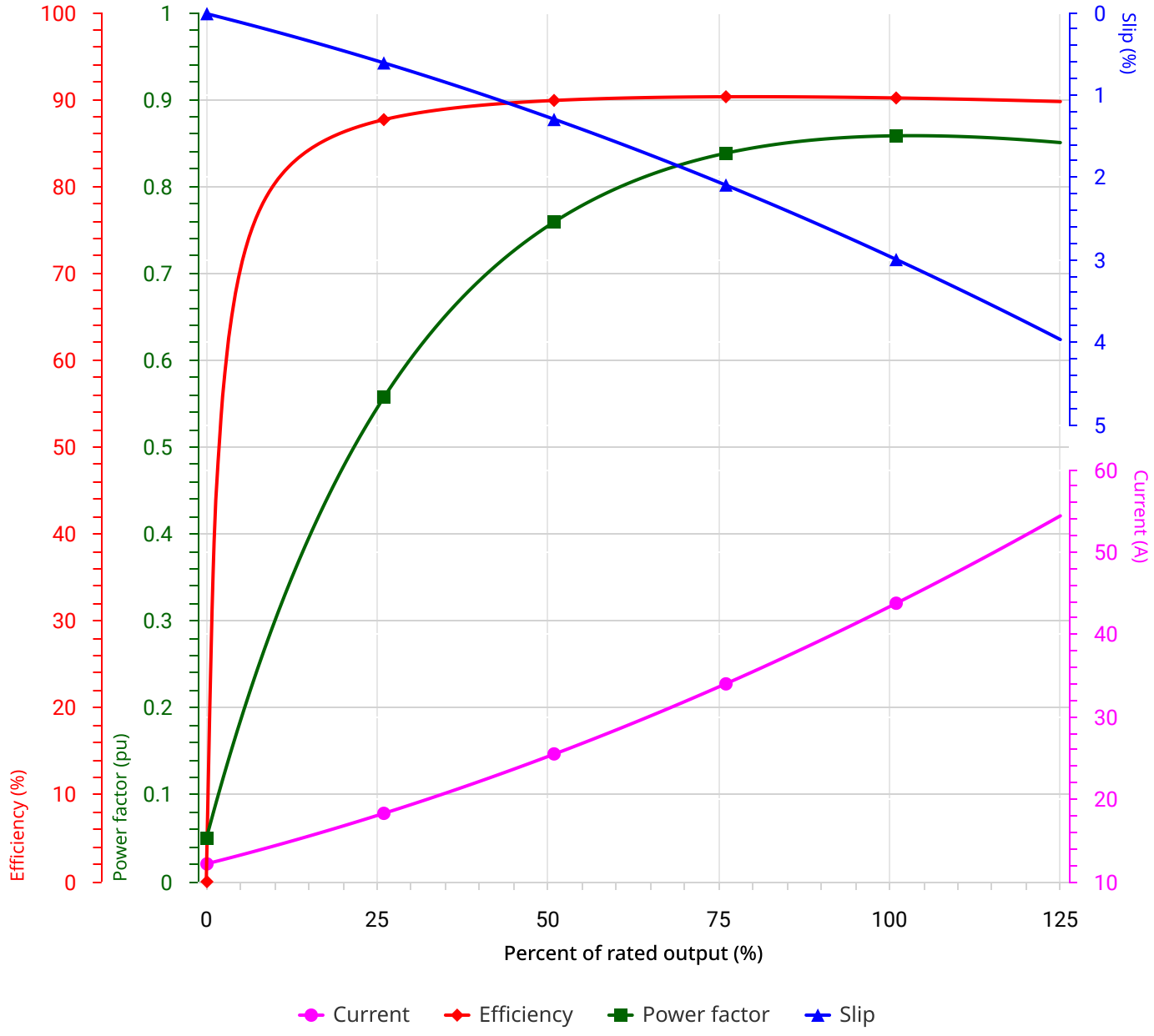
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Three Phase Induction Motor - Squirrel Cage

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



Performance	: 30 HP (22 kW) 380V 50Hz 4P 284/6JP

Rated current	: 43.1 A	Moment of inertia (J)	: 0.2467 kgm²
LRC	: 5.3 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 15.0 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1455 rpm	Design	: B

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