DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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

Frame	: 182/4JM	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	: 43.1 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.008 kgm²
Design	: B		

Output		3 HP (2.2 kW)	3 HP (2.2 kW)
Poles		2	2
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		7.52/3.76 A	4.44 A
L. R. Amperes		64.7/32.3 A	31.1 A
LRC		8.6 Code K	7.0 Code H
No load current		3.20/1.60 A	1.50 A
Rated speed		3515 rpm	2890 rpm
Slip		2.36 %	3.67 %
Rated torque		0.619 kgfm	0.753 kgfm
Locked rotor torque		250 %	190 %
Breakdown torque		380 %	270 %
Service factor		1.25	1.25
Temperature rise		80 K	80 K
Noise level		66 dB(A)	62 dB(A)
Locked rotor time		26 s (hot) 47 s (cold)	23 s (hot) 41 s (cold)
Efficiency (%)	50%	82.0	84.0
	75%	86.0	85.5
	100%	86.5	85.5
Power Factor	Start	0.52	0.52
	50%	0.70	0.76
	75%	0.80	0.84
	100%	0.85	0.88
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		14.56	14.56
P2 (0,5;1,0)		10.65	10.65
P3 (0,25;1,0)		9.38	9.38
P4 (0,9;0,5)		8.33	8.33
P5 (0,5;0,5)		4.52	4.52
P6 (0,5;0,25)		3.13	3.13
P7 (0,25;0,25)		1.80	1.80

	Drive end	Non drive end
Bearing type	6307-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads
Max. traction : 27 kgf
Max. compression : 70 kgf

Notes:

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

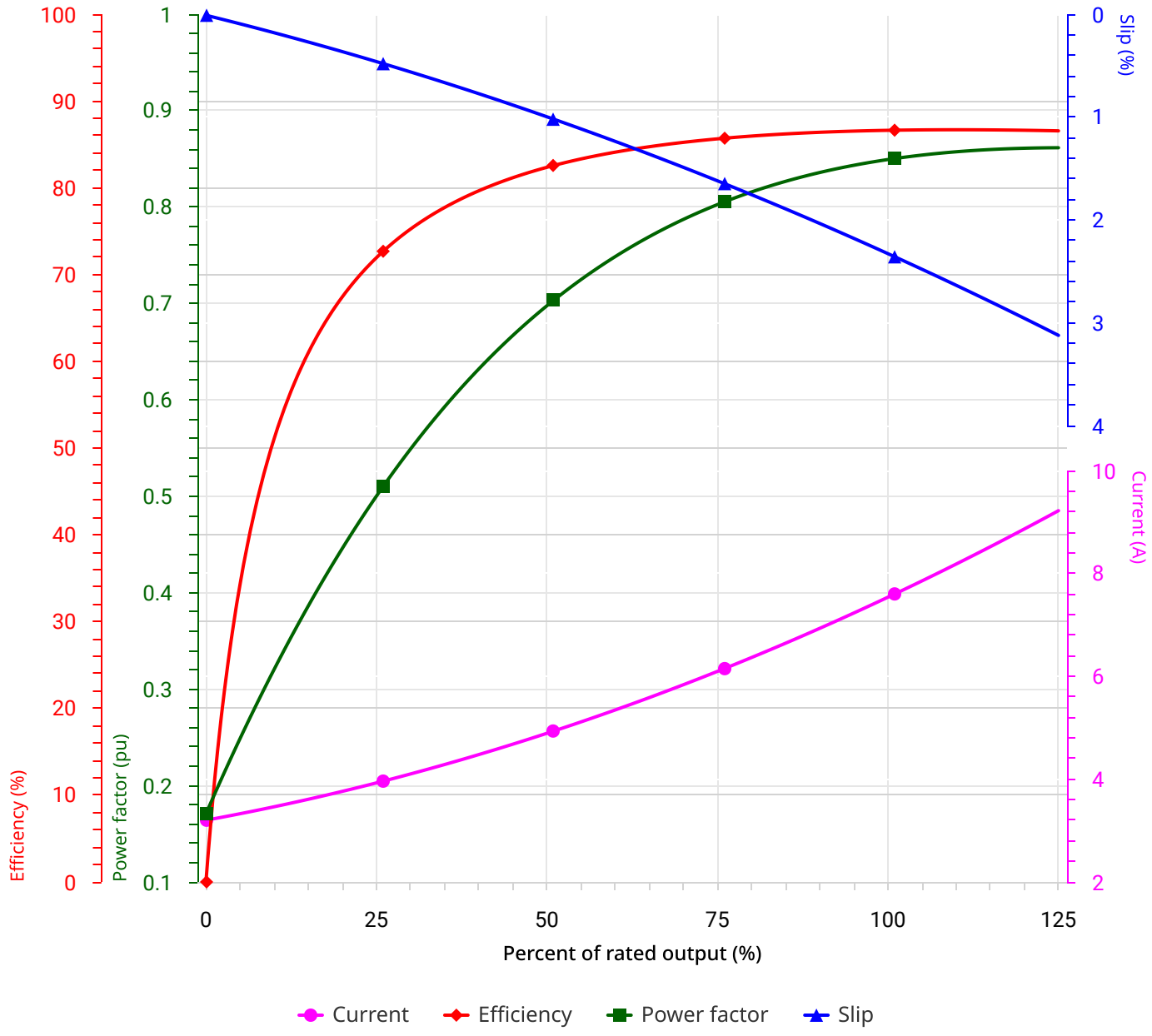
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 3 HP (2.2 kW) 208/230/460V 60Hz 2P 182/4JM

Rated current	: 8.01/7.52/3.76 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 8.6 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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

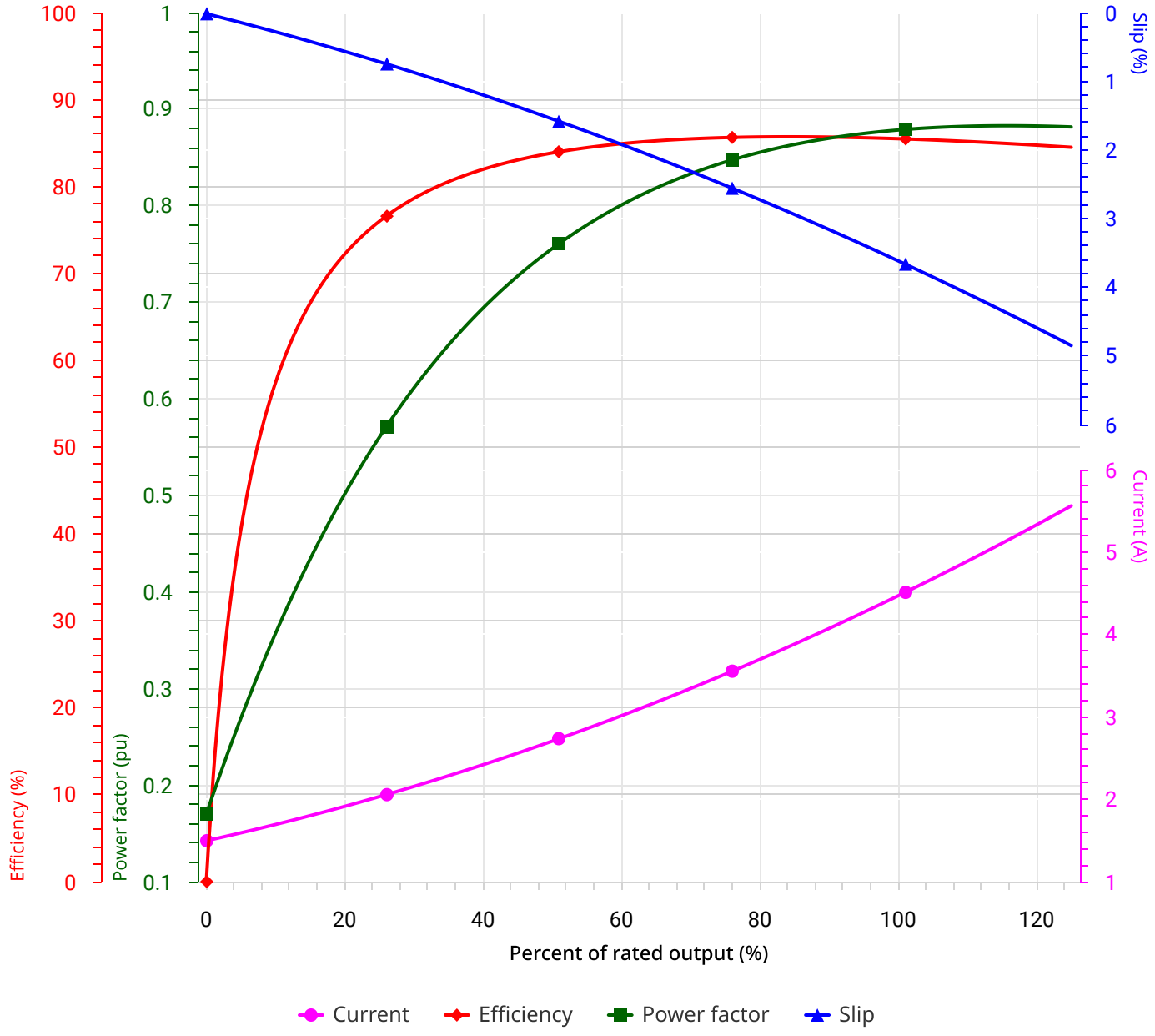
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Three Phase Induction Motor - Squirrel Cage

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



Performance	: 3 HP (2.2 kW) 380V 50Hz 2P 182/4JM		
Rated current	: 4.44 A	Moment of inertia (J)	: 0.008 kgm²
LRC	: 7.0 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 0.753 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

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