DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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

Frame	: 143/5JM	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	: 23.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0026 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		7.42/3.71 A	4.44 A
L. R. Amperes		60.1/30.1 A	27.1 A
LRC		8.1 Code J	6.1 Code G
No load current		2.60/1.30 A	1.28 A
Rated speed		3460 rpm	2820 rpm
Slip		3.89 %	6.00 %
Rated torque		0.629 kgfm	0.772 kgfm
Locked rotor torque		330 %	260 %
Breakdown torque		360 %	260 %
Service factor		1.25	1.25
Temperature rise		80 K	80 K
Noise level		68 dB(A)	62 dB(A)
Locked rotor time		14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)
Efficiency (%)	50%	85.5	84.0
	75%	86.5	85.0
	100%	86.5	84.6
Power Factor	Start	0.70	0.74
	50%	0.70	0.76
	75%	0.81	0.85
	100%	0.86	0.89
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		14.83	14.83
P2 (0,5;1,0)		12.27	12.27
P3 (0,25;1,0)		11.71	11.71
P4 (0,9;0,5)		6.75	6.75
P5 (0,5;0,5)		4.34	4.34
P6 (0,5;0,25)		2.59	2.59
P7 (0,25;0,25)		1.72	1.72

	Drive end	Non drive end
Bearing type	6206-ZZ	6204-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads
Max. traction : 52 kgf
Max. compression : 76 kgf

Notes:

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

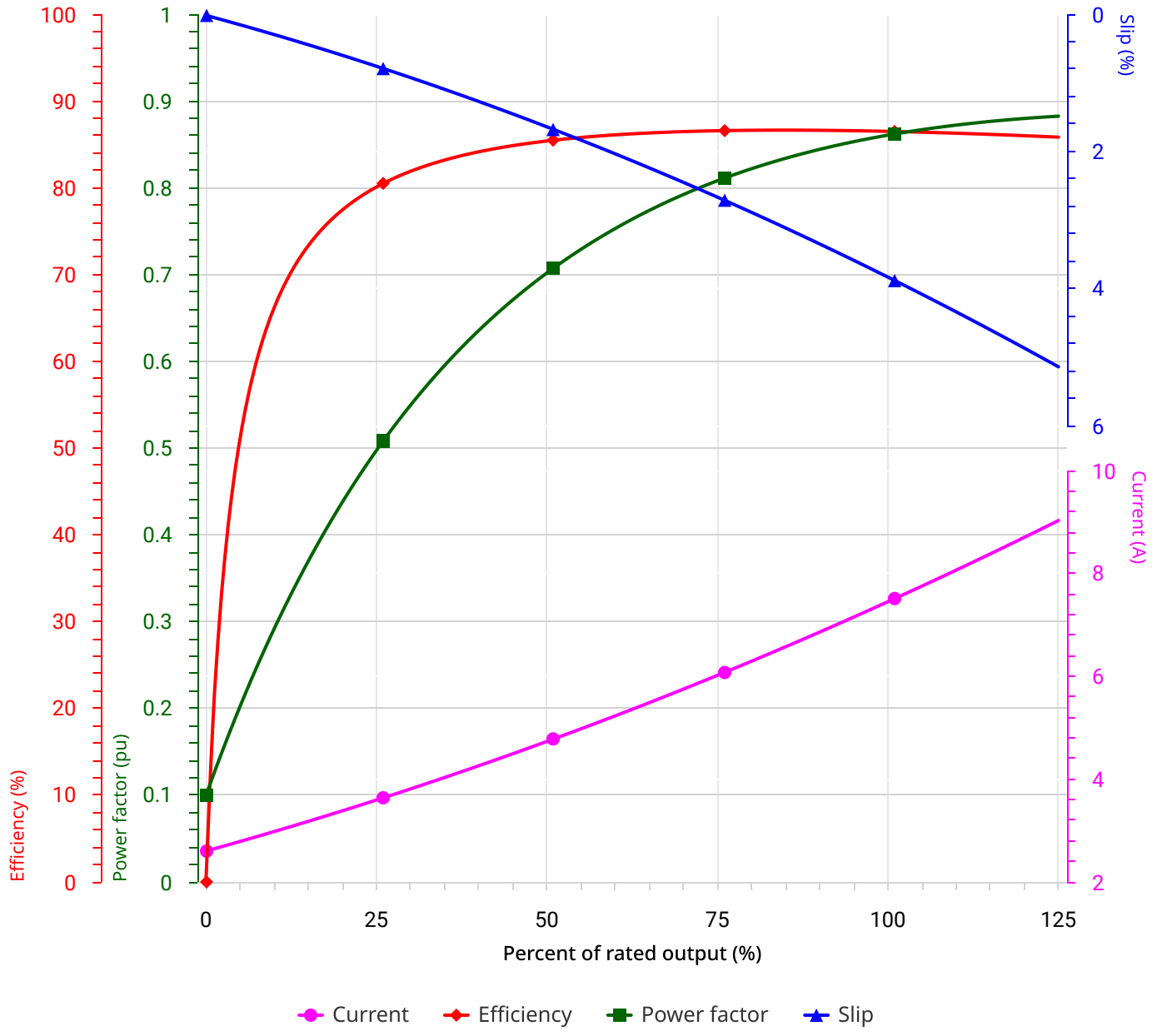
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LOAD PERFORMANCE CURVE

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 143/5JM

Rated current	: 8.20/7.42/3.71 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 8.1 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.629 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 3460 rpm	Design	: B

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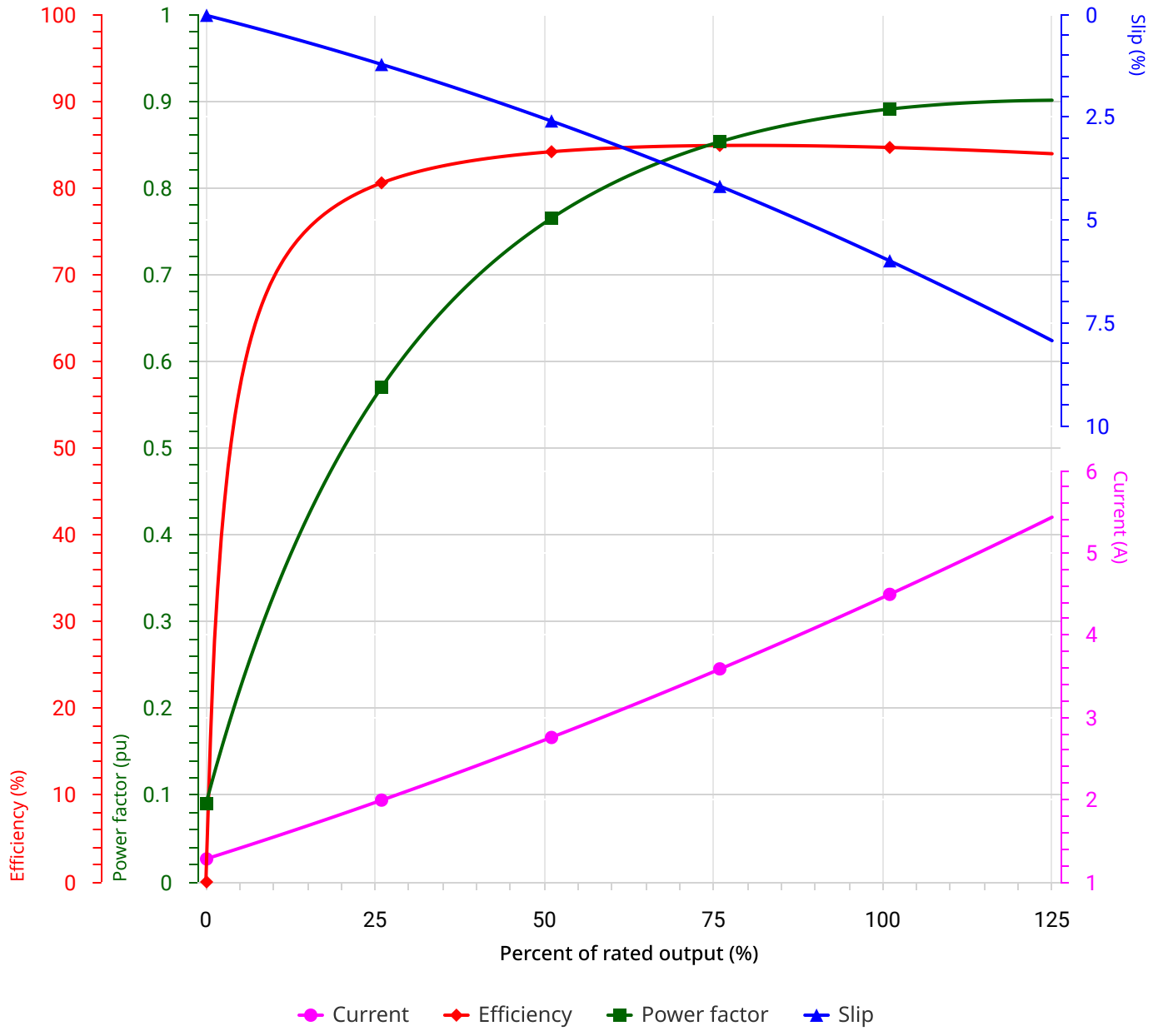
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Three Phase Induction Motor - Squirrel Cage

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



Performance	: 3 HP (2.2 kW) 380V 50Hz 2P 143/5JM

Rated current	: 4.44 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 0.772 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2820 rpm	Design	: B

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