DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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

Frame	: 284/6JM	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	: 176 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1135 kgm²
Design	: B		

Output		25 HP (18.5 kW)	25 HP (18.5 kW)
Poles		2	2
Frequency		60 Hz	50 Hz
Rated voltage		230/460 V	380 V
Rated current		58.2/29.1 A	35.7 A
L. R. Amperes		367/183 A	175 A
LRC		6.3 Code G	4.9 Code E
No load current		17.2/8.60 A	8.10 A
Rated speed		3550 rpm	2925 rpm
Slip		1.39 %	2.50 %
Rated torque		5.11 kgfm	6.20 kgfm
Locked rotor torque		200 %	160 %
Breakdown torque		230 %	170 %
Service factor		1.25	1.00
Temperature rise		80 K	105 K
Noise level		72 dB(A)	67 dB(A)
Locked rotor time		17 s (hot) 31 s (cold)	14 s (hot) 25 s (cold)
Efficiency (%)	50%	91.0	91.0
	75%	91.7	90.2
	100%	91.7	89.5
Power Factor	Start	0.40	0.40
	50%	0.77	0.82
	75%	0.84	0.87
	100%	0.87	0.88
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)		8.62	11.18
P2 (0,5;1,0)		6.76	8.76
P3 (0,25;1,0)		5.93	7.69
P4 (0,9;0,5)		4.43	5.75
P5 (0,5;0,5)		2.61	3.38
P6 (0,5;0,25)		1.67	2.17
P7 (0,25;0,25)		1.02	1.32

	Drive end	Non drive end
Bearing type	6311-C3	6211-C3
Lubrication interval	14000 h	17000 h
Lubricant amount	18 g	11 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 78 kgf
Max. compression : 254 kgf

Notes:

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

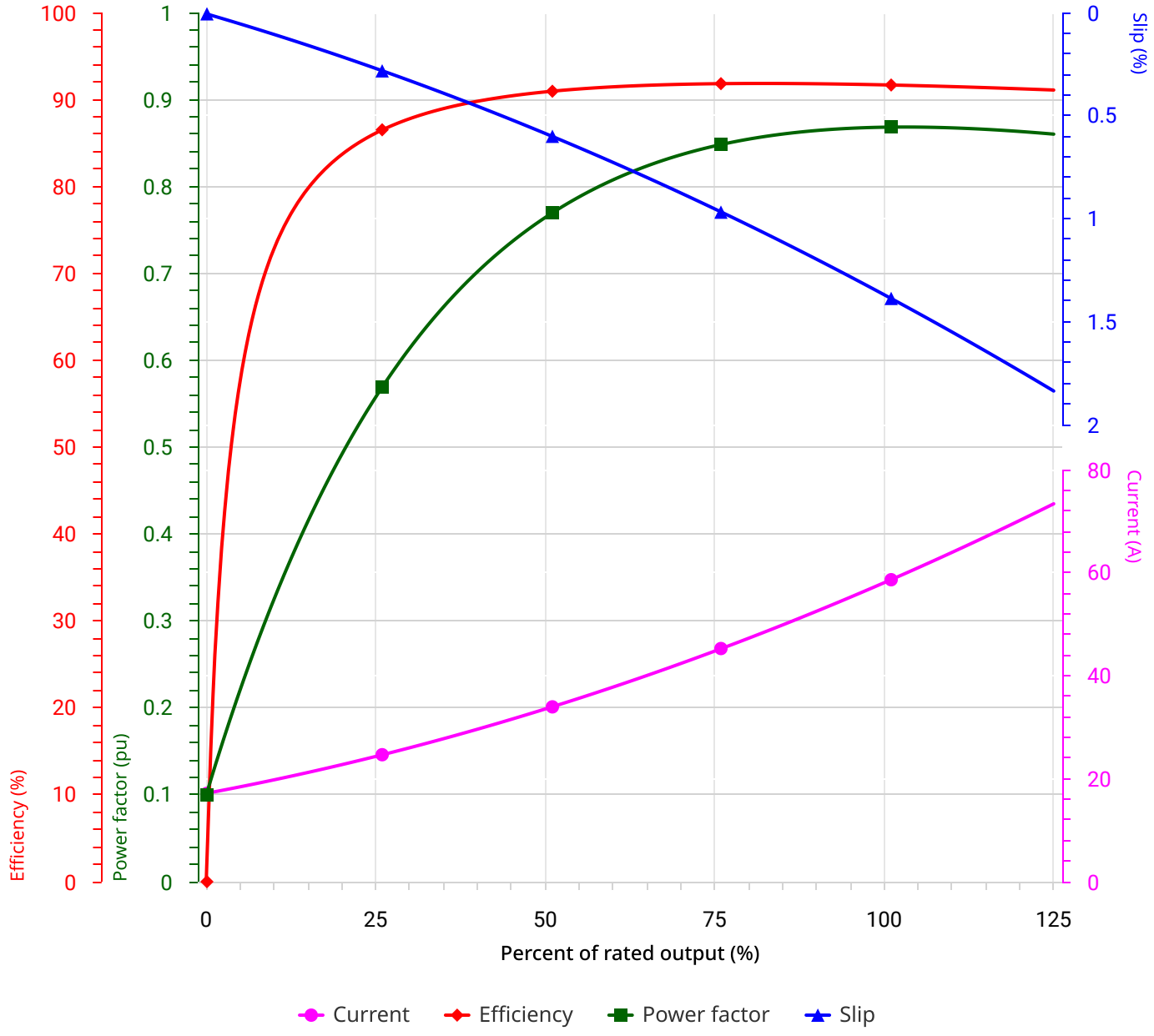
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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



Performance	: 25 HP (18.5 kW) 208/230/460V 60Hz 2P 284/6JM

Rated current	: 63.0/58.2/29.1 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 5.11 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: B

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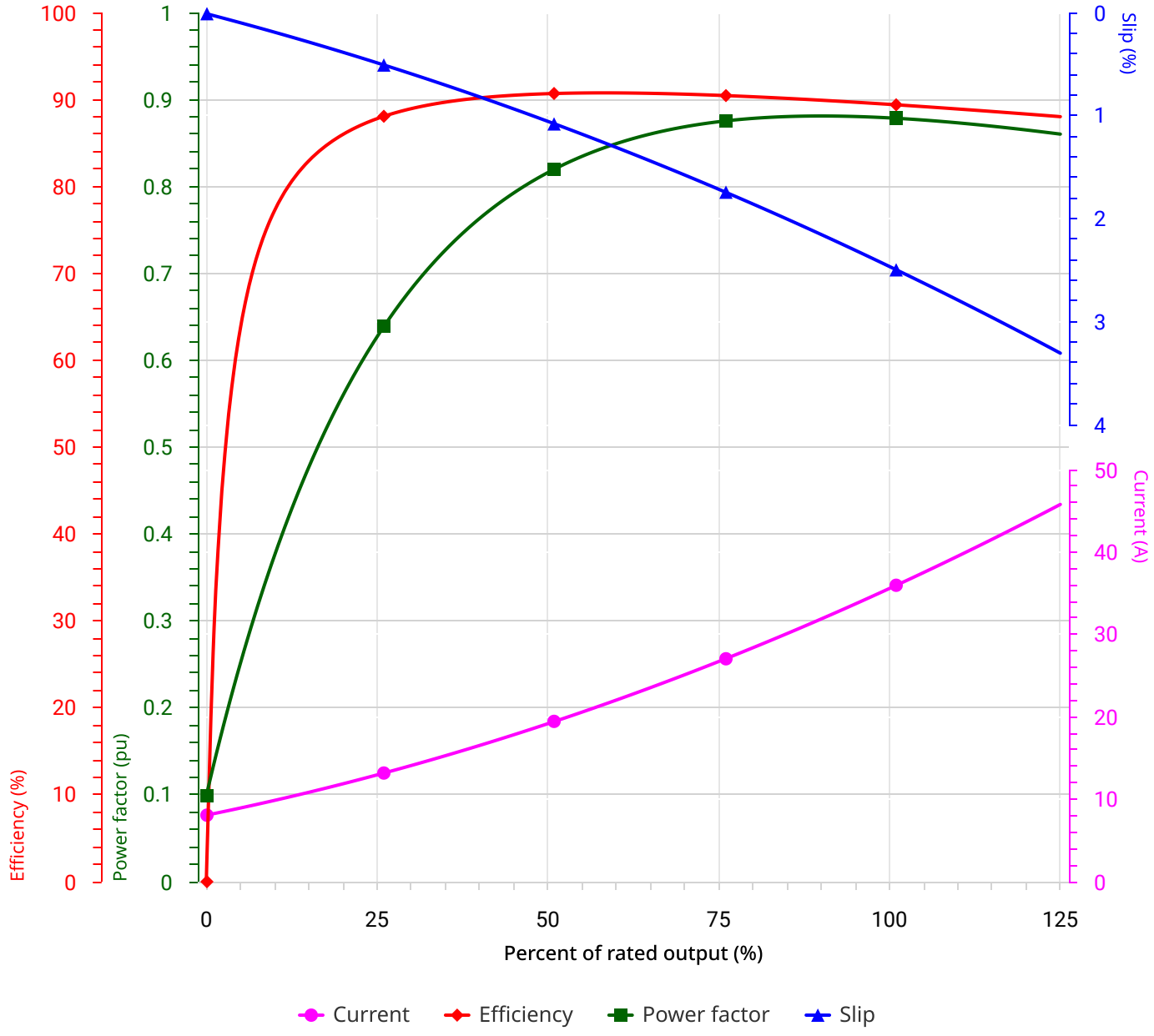
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Three Phase Induction Motor - Squirrel Cage

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



Performance	: 25 HP (18.5 kW) 380V 50Hz 2P 284/6JM

Rated current	: 35.7 A	Moment of inertia (J)	: 0.1135 kgm²
LRC	: 4.9 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 6.20 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 170 %	Temperature rise	: 105 K
Rated speed	: 2925 rpm	Design	: B

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