DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12941830

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	: 131 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1867 kgm²
Design	: B		

Output		10 HP (7.5 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)
Poles		6	6	6	6
Frequency		60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	380 V	400 V	415 V
Rated current		26.5/13.3 A	15.6 A	15.1 A	14.8 A
L. R. Amperes		172/86.2 A	79.6 A	86.2 A	90.0 A
LRC		6.5 Code H	5.1 Code F	5.7 Code G	6.1 Code H
No load current		14.2/7.10 A	6.90 A	7.50 A	8.00 A
Rated speed		1177 rpm	968 rpm	970 rpm	975 rpm
Slip		1.92 %	3.20 %	3.00 %	2.50 %
Rated torque		6.17 kgfm	7.50 kgfm	7.48 kgfm	7.44 kgfm
Locked rotor torque		230 %	170 %	200 %	220 %
Breakdown torque		280 %	220 %	240 %	260 %
Service factor		1.25	1.00	1.15	1.15
Temperature rise		80 K	95 K	95 K	80 K
Noise level		59 dB(A)	57 dB(A)	57 dB(A)	57 dB(A)
Locked rotor time		20 s (hot) 36 s (cold)	22 s (hot) 40 s (cold)	21 s (hot) 38 s (cold)	20 s (hot) 36 s (cold)
Efficiency (%)	50%	90.2	90.0	90.0	89.5
	75%	91.0	89.5	90.2	90.2
	100%	91.0	89.1	89.5	89.5
Power Factor	Start	0.48	0.48	0.48	0.48
	50%	0.59	0.66	0.63	0.60
	75%	0.71	0.77	0.74	0.72
	100%	0.78	0.82	0.8	0.79
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		9.69	11.99	11.50	11.50
P2 (0,5;1,0)		8.26	10.22	9.80	9.80
P3 (0,25;1,0)		7.67	9.49	9.10	9.10
P4 (0,9;0,5)		5.19	6.42	6.16	6.16
P5 (0,5;0,5)		3.66	4.53	4.35	4.35
P6 (0,5;0,25)		2.66	3.29	3.15	3.15
P7 (0,25;0,25)		1.93	2.38	2.29	2.29

	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 : 235 kgf
Max. compression : 366 kgf

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/09

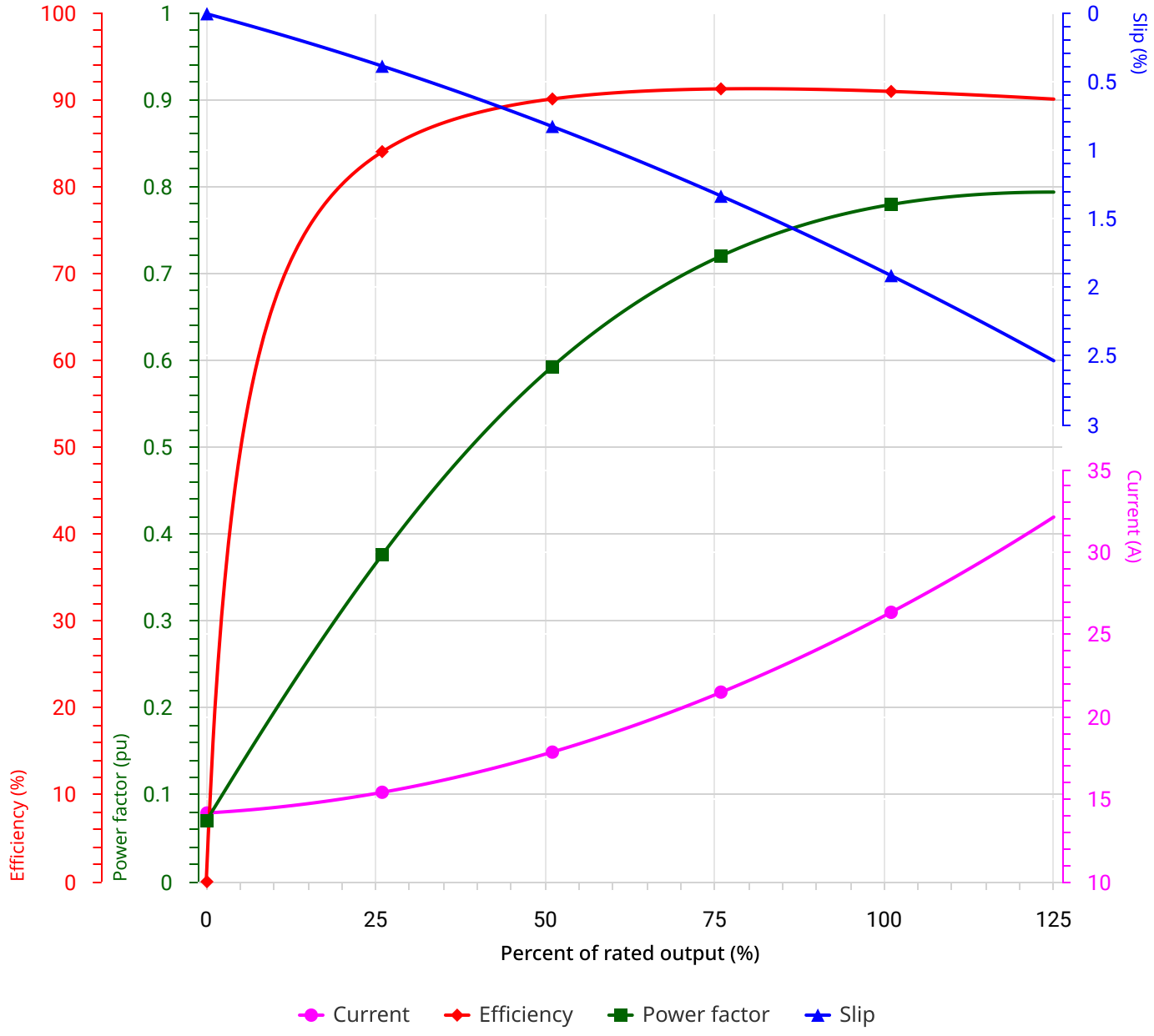
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12941830



Performance	: 10 HP (7.5 kW) 208/230/460V 60Hz 6P 254/6JM

Rated current	: 28.5/26.5/13.3 A	Moment of inertia (J)	: 0.1867 kgm²
LRC	: 6.5 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 6.17 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1177 rpm	Design	: B

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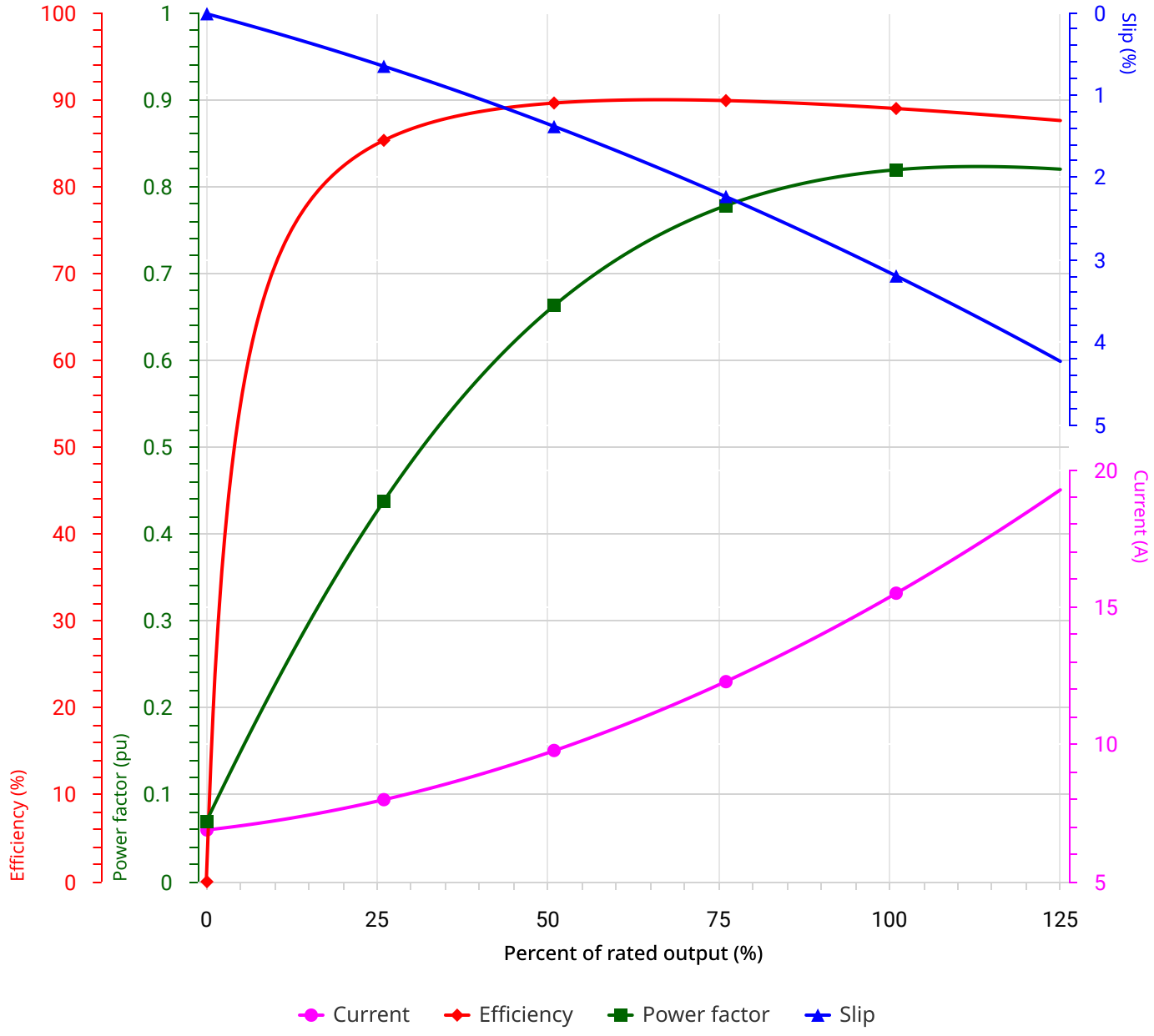
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12941830



Performance	: 10 HP (7.5 kW) 380V 50Hz 6P 254/6JM

Rated current	: 15.6 A	Moment of inertia (J)	: 0.1867 kgm²
LRC	: 5.1 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 7.50 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 95 K
Rated speed	: 968 rpm	Design	: B

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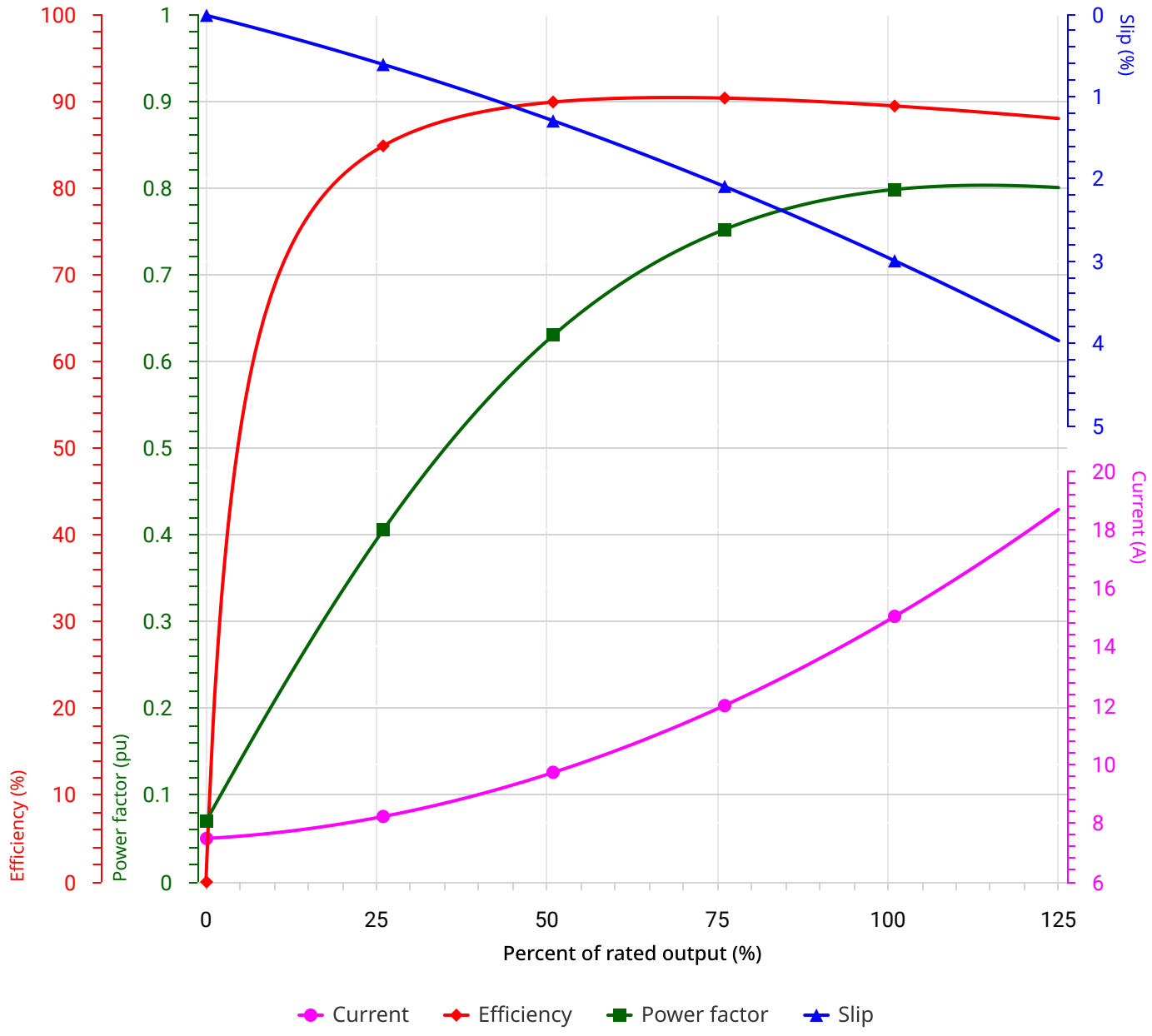
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Three Phase Induction Motor - Squirrel Cage

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Performance	: 10 HP (7.5 kW) 400V 50Hz 6P 254/6JM

Rated current	: 15.1 A	Moment of inertia (J)	: 0.1867 kgm²
LRC	: 5.7 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 7.48 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 95 K
Rated speed	: 970 rpm	Design	: B

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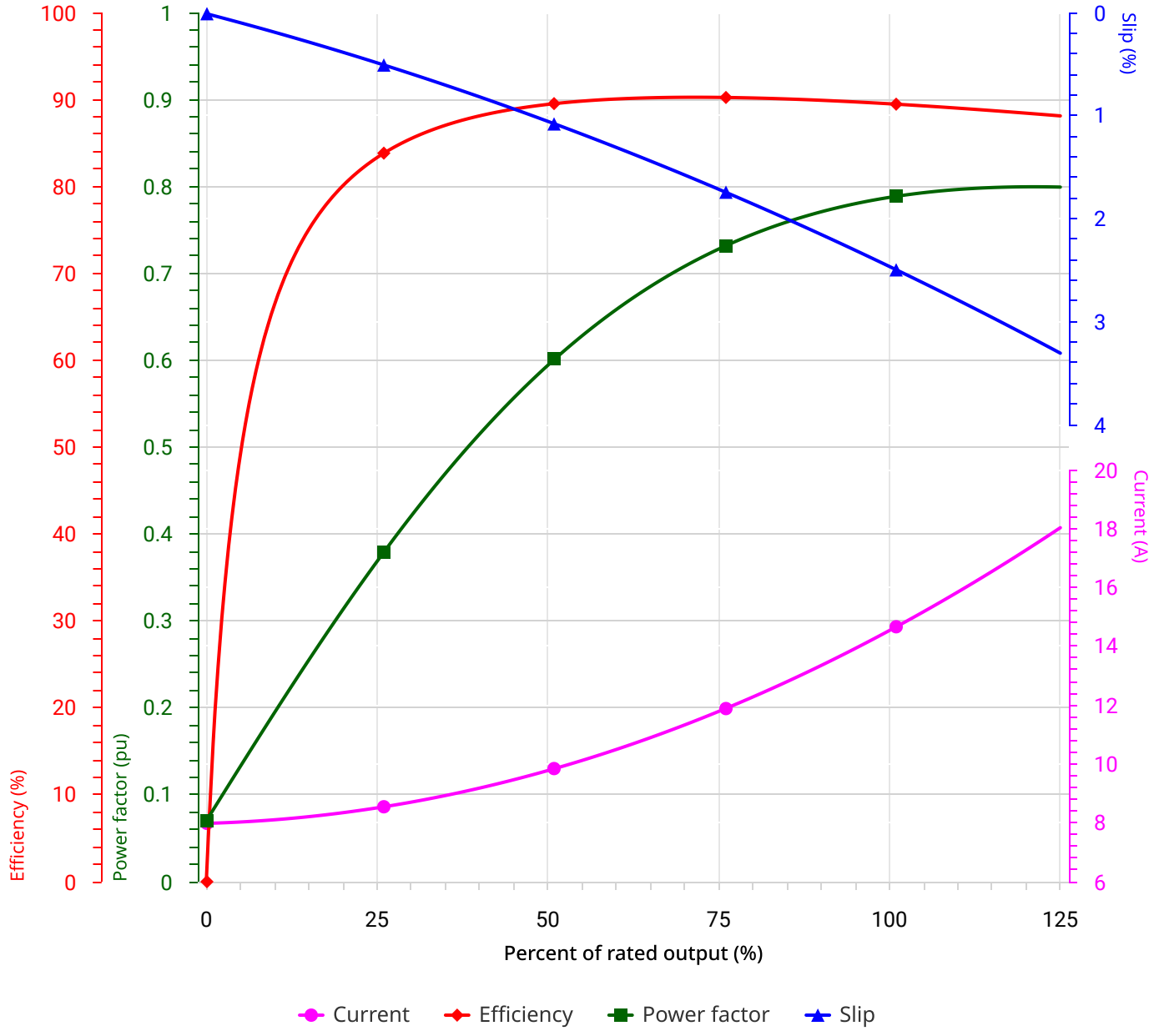
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12941830



Performance	: 10 HP (7.5 kW) 415V 50Hz 6P 254/6JM

Rated current	: 14.8 A	Moment of inertia (J)	: 0.1867 kgm²
LRC	: 6.1 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 7.44 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

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