DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W40 Nema Premium Efficiency - Close Coupled Pump JM (Derating)
Product code	: 14484696

Frame	: 284JM	Cooling method	: IC01 - ODP
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	: 147 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.0669 kgm²
Design	: B		

Output		30 HP (22 kW)	30 HP (22 kW)	25 HP (18.5 kW)	25 HP (18.5 kW)	25 HP (18.5 kW)
Poles		2	2	2	2	2
Frequency		60 Hz	60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	208 V	380 V	400 V	415 V
Rated current		71.7/35.8 A	77.4 A	35.4 A	34.4 A	34.8 A
L. R. Amperes		452/226 A	488 A	219 A	230 A	240 A
LRC		6.3 Code G	6.3 Code G	6.2 Code G	6.7 Code H	6.9 Code H
No load current		25.0/12.5 A	21.6 A	11.7 A	13.5 A	15.0 A
Rated speed		3545 rpm	3545 rpm	2940 rpm	2950 rpm	2950 rpm
Slip		1.53 %	1.53 %	2.00 %	1.67 %	1.67 %
Rated torque		6.14 kgfm	6.00 kgfm	6.17 kgfm	6.15 kgfm	6.15 kgfm
Locked rotor torque		200 %	200 %	180 %	200 %	210 %
Breakdown torque		230 %	225 %	220 %	240 %	260 %
Service factor		1.25	1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K
Noise level		73 dB(A)	73.0 dB(A)	70 dB(A)	70 dB(A)	70 dB(A)
Locked rotor time		10 s (hot) 18 s (cold)	10 s (hot) 18 s (cold)	7 s (hot) 13 s (cold)	7 s (hot) 13 s (cold)	9 s (hot) 16 s (cold)
Efficiency (%)	50%	90.2	90.2	89.7	89.8	89.8
	75%	91.7	91.7	90.7	90.8	90.8
	100%	91.7	91.7	92.4	92.4	92.4
Power Factor	Start	0.46	0.46	0.49	0.49	0.50
	50%	0.71	0.71	0.74	0.70	0.66
	75%	0.80	0.80	0.83	0.80	0.77
	100%	0.84	0.84	0.86	0.84	0.8
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)		8.65	8.65	7.86	7.86	7.86
P2 (0,5;1,0)		7.04	7.04	6.40	6.40	6.40
P3 (0,25;1,0)		6.37	6.37	5.79	5.79	5.79
P4 (0,9;0,5)		4.45	4.45	4.05	4.05	4.05
P5 (0,5;0,5)		2.82	2.82	2.56	2.56	2.56
P6 (0,5;0,25)		1.88	1.88	1.71	1.71	1.71
P7 (0,25;0,25)		1.24	1.24	1.13	1.13	1.13

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

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/17

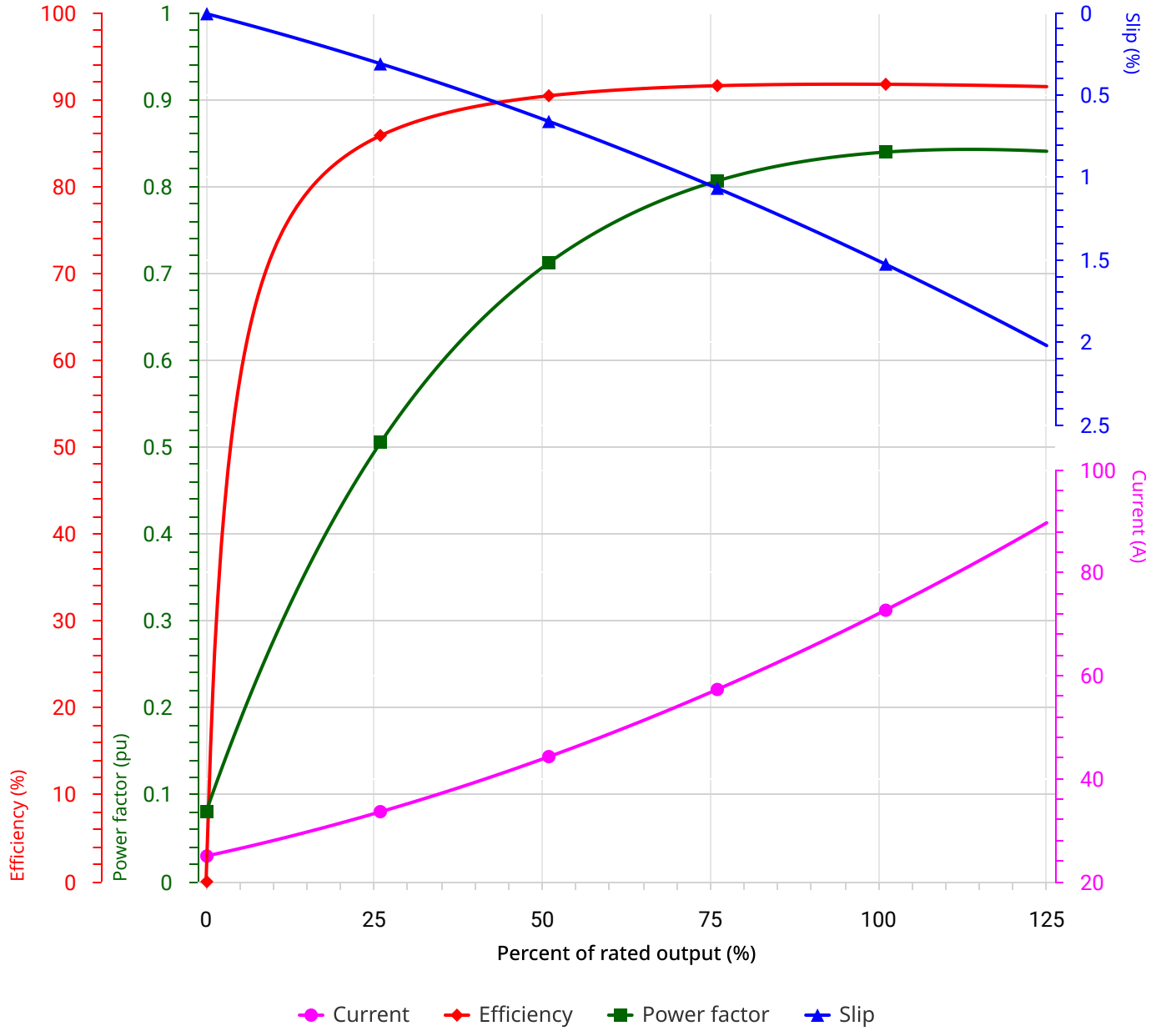
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W40 Nema Premium Efficiency - Close Coupled Pump JM (Derating)
Product code	: 14484696



Performance	: 30 HP (22 kW) 230/460V 60Hz 2P 284JM

Rated current	: 71.7/35.8 A	Moment of inertia (J)	: 0.0669 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.14 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: B

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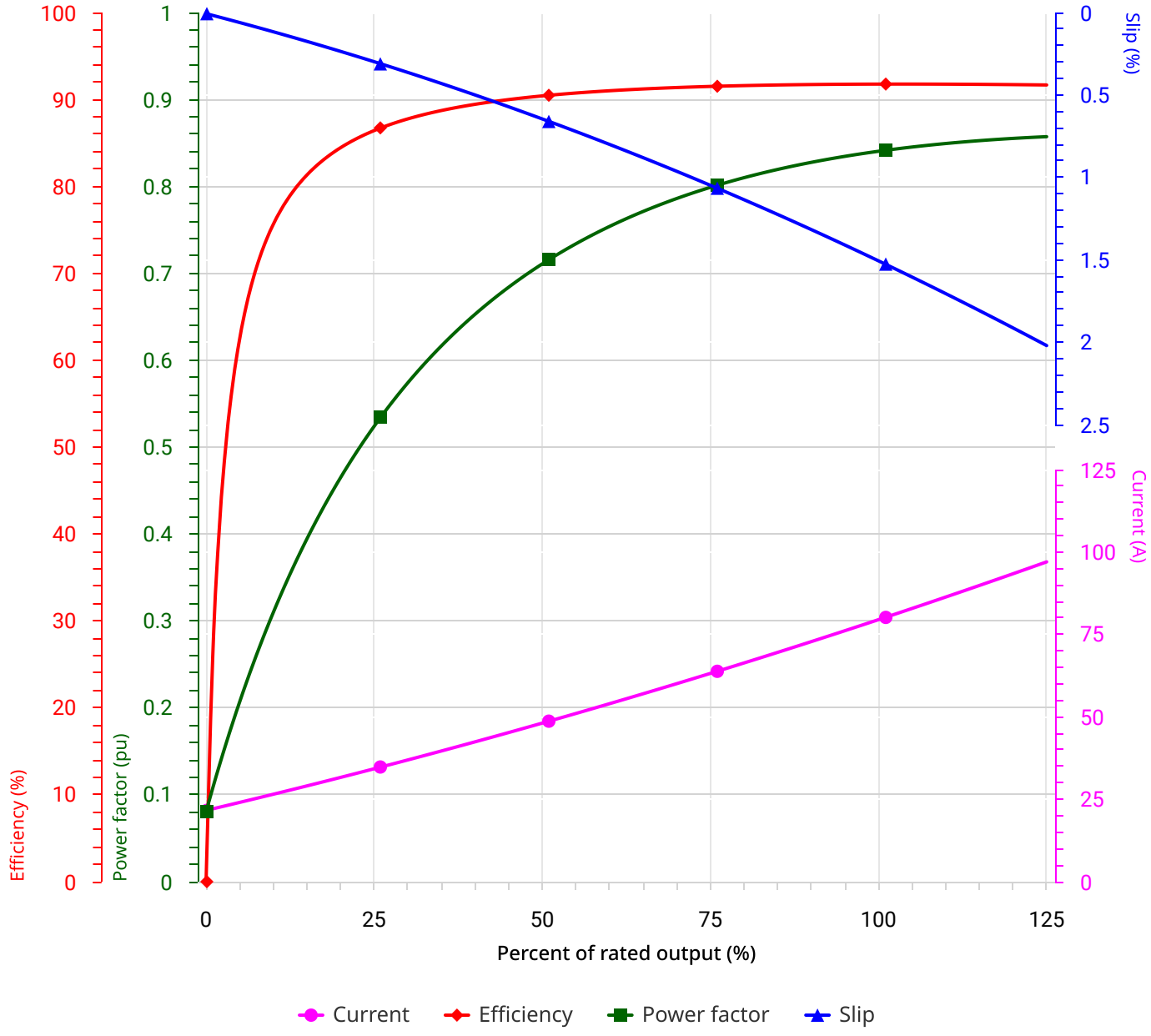
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W40 Nema Premium Efficiency - Close Coupled Pump JM (Derating)
Product code	: 14484696



Performance	: 30 HP (22 kW) 208V 60Hz 2P 284JM

Rated current	: 77.4 A	Moment of inertia (J)	: 0.0669 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.00 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 225 %	Temperature rise	: 80 K
Rated speed	: 3545 rpm	Design	: 00002

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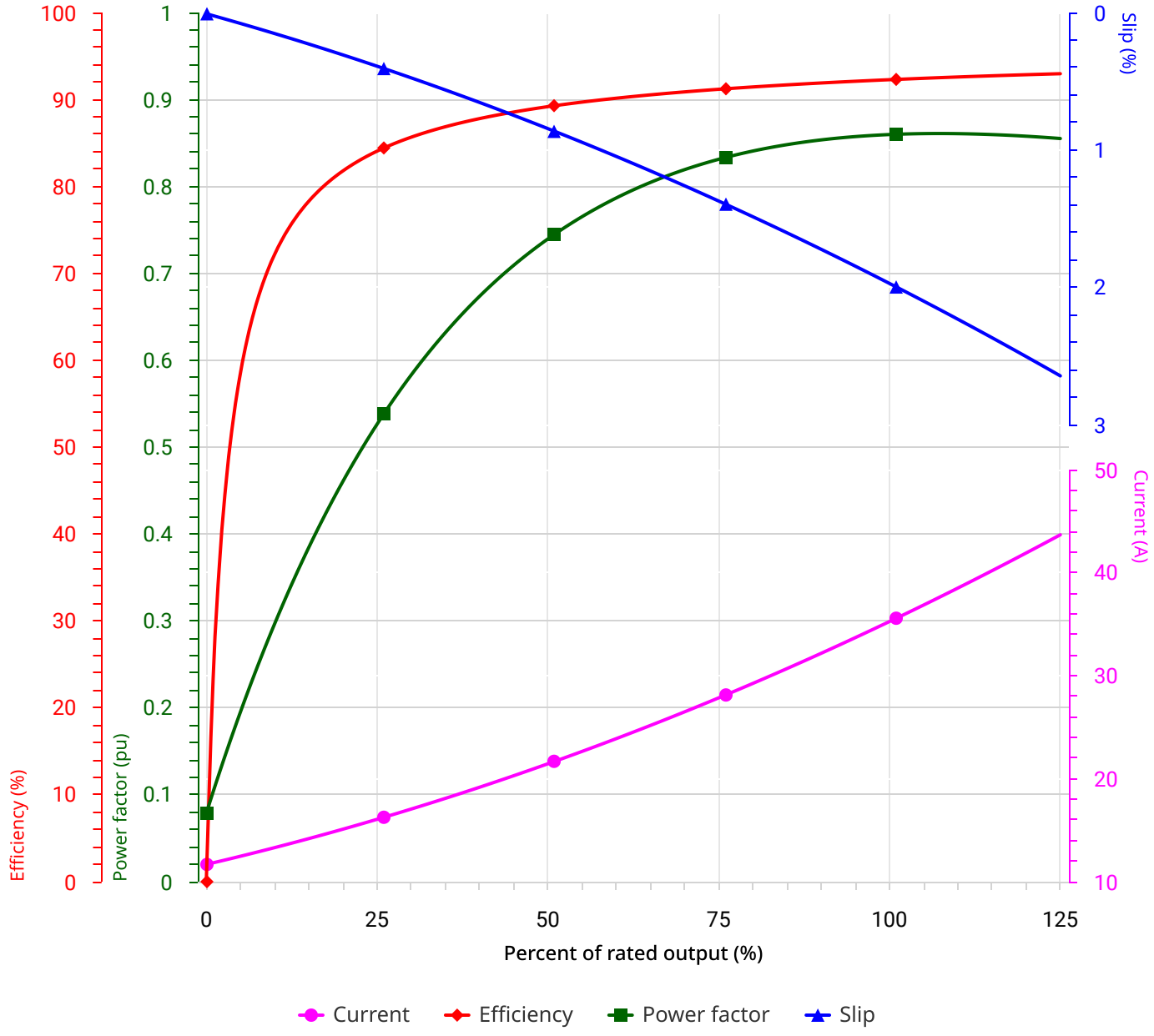
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W40 Nema Premium Efficiency - Close Coupled Pump JM (Derating)
Product code	: 14484696



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

Rated current	: 35.4 A	Moment of inertia (J)	: 0.0669 kgm²
LRC	: 6.2 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.17 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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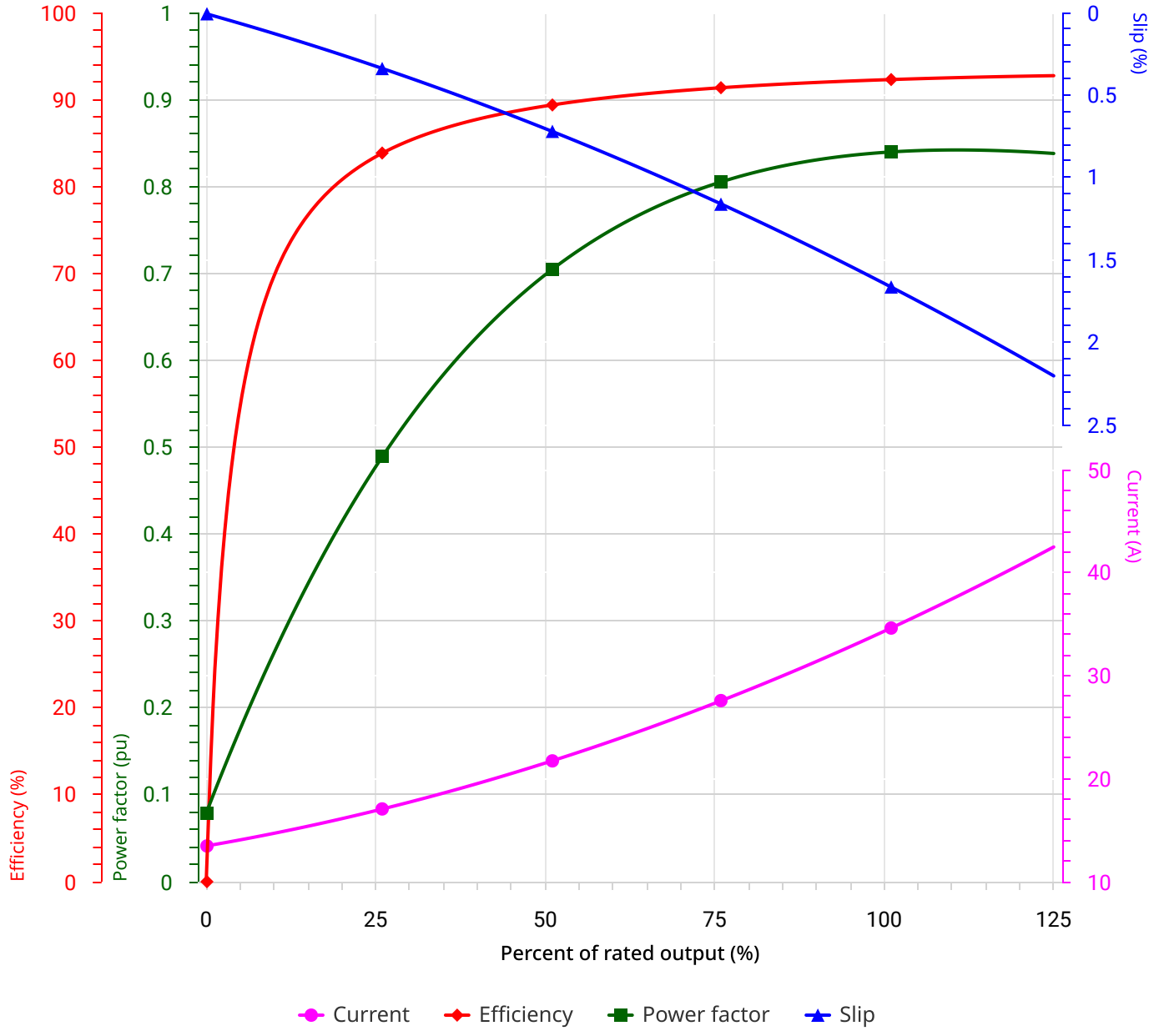
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W40 Nema Premium Efficiency - Close Coupled Pump JM (Derating)
Product code	: 14484696



Performance	: 25 HP (18.5 kW) 400V 50Hz 2P 284JM

Rated current	: 34.4 A	Moment of inertia (J)	: 0.0669 kgm²
LRC	: 6.7 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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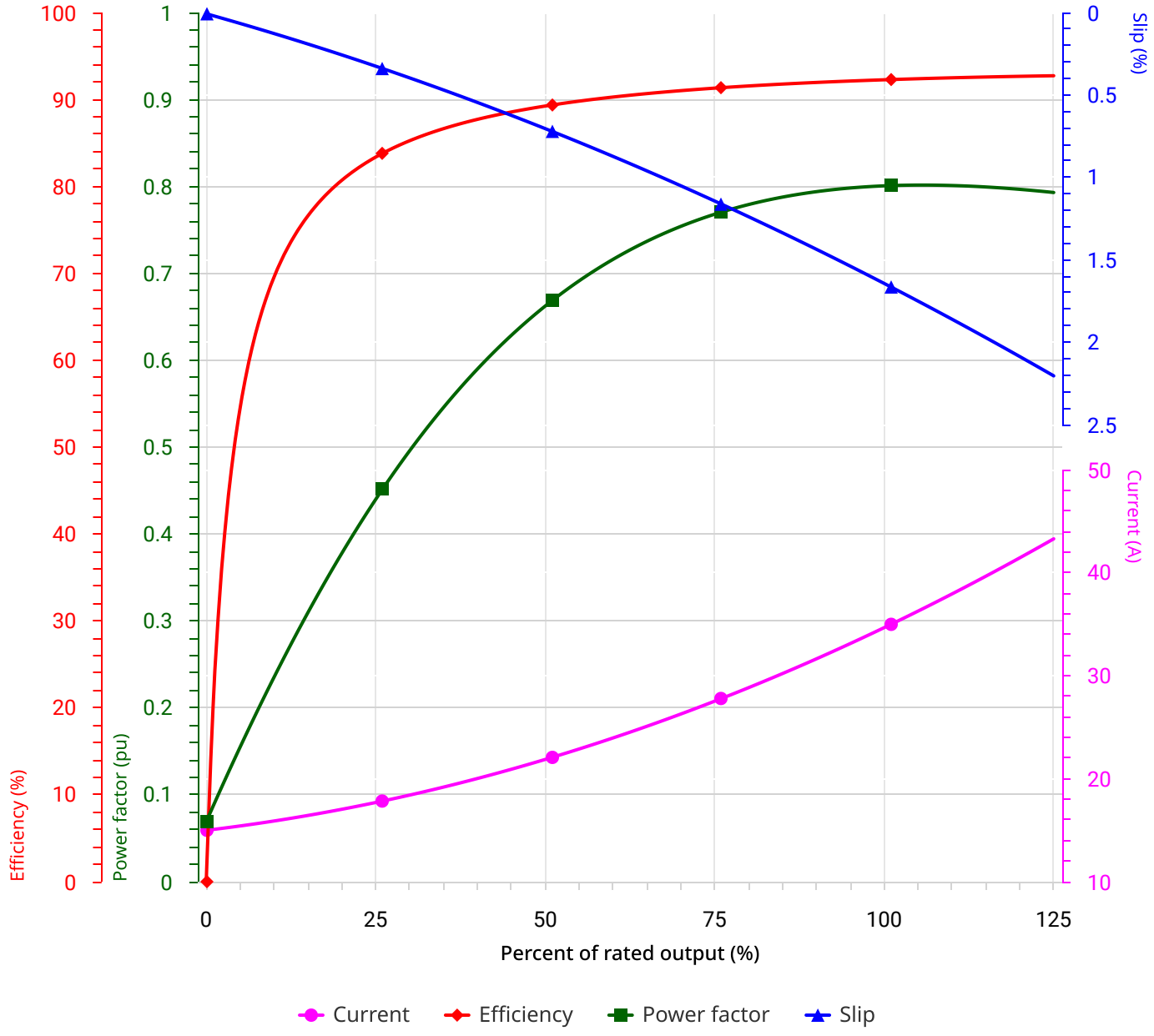
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W40 Nema Premium Efficiency - Close Coupled Pump JM (Derating)
Product code	: 14484696



Performance	: 25 HP (18.5 kW) 415V 50Hz 2P 284JM

Rated current	: 34.8 A	Moment of inertia (J)	: 0.0669 kgm²
LRC	: 6.9 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: A

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