DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12674731

Frame	: 182/4TC	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1/B34R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 30.7 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.013 kgm²
Design	: B		

Output		3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	220/415 V
Rated current		7.72/3.86 A	9.08/4.54 A	8.17/4.33 A
L. R. Amperes		64.8/32.4 A	58.1/29.1 A	61.3/32.5 A
LRC		8.4 Code K	6.4 Code H	7.5 Code J
No load current		4.14/2.07 A	4.08/2.04 A	4.48/2.37 A
Rated speed		1765 rpm	1460 rpm	1470 rpm
Slip		1.94 %	2.67 %	2.00 %
Rated torque		1.23 kgfm	1.49 kgfm	1.48 kgfm
Locked rotor torque		220 %	150 %	180 %
Breakdown torque		330 %	240 %	300 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level		55 dB(A)	53 dB(A)	53 dB(A)
Locked rotor time		15 s (hot) 27 s (cold)	21 s (hot) 38 s (cold)	18 s (hot) 32 s (cold)
Efficiency (%)	50%	87.5	86.0	86.8
	75%	88.5	86.5	87.8
	100%	89.5	86.7	87.2
Power Factor	Start	0.59	0.59	0.61
	50%	0.60	0.68	0.60
	75%	0.73	0.79	0.73
	100%	0.8	0.85	0.81
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		0.00	0.00	0.00
P2 (0,5;1,0)		0.00	0.00	0.00
P3 (0,25;1,0)		0.00	0.00	0.00
P4 (0,9;0,5)		0.00	0.00	0.00
P5 (0,5;0,5)		0.00	0.00	0.00
P6 (0,5;0,25)		0.00	0.00	0.00
P7 (0,25;0,25)		0.00	0.00	0.00

	Drive end	Non drive end
Bearing type	6206-ZZ	6205-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/10/27

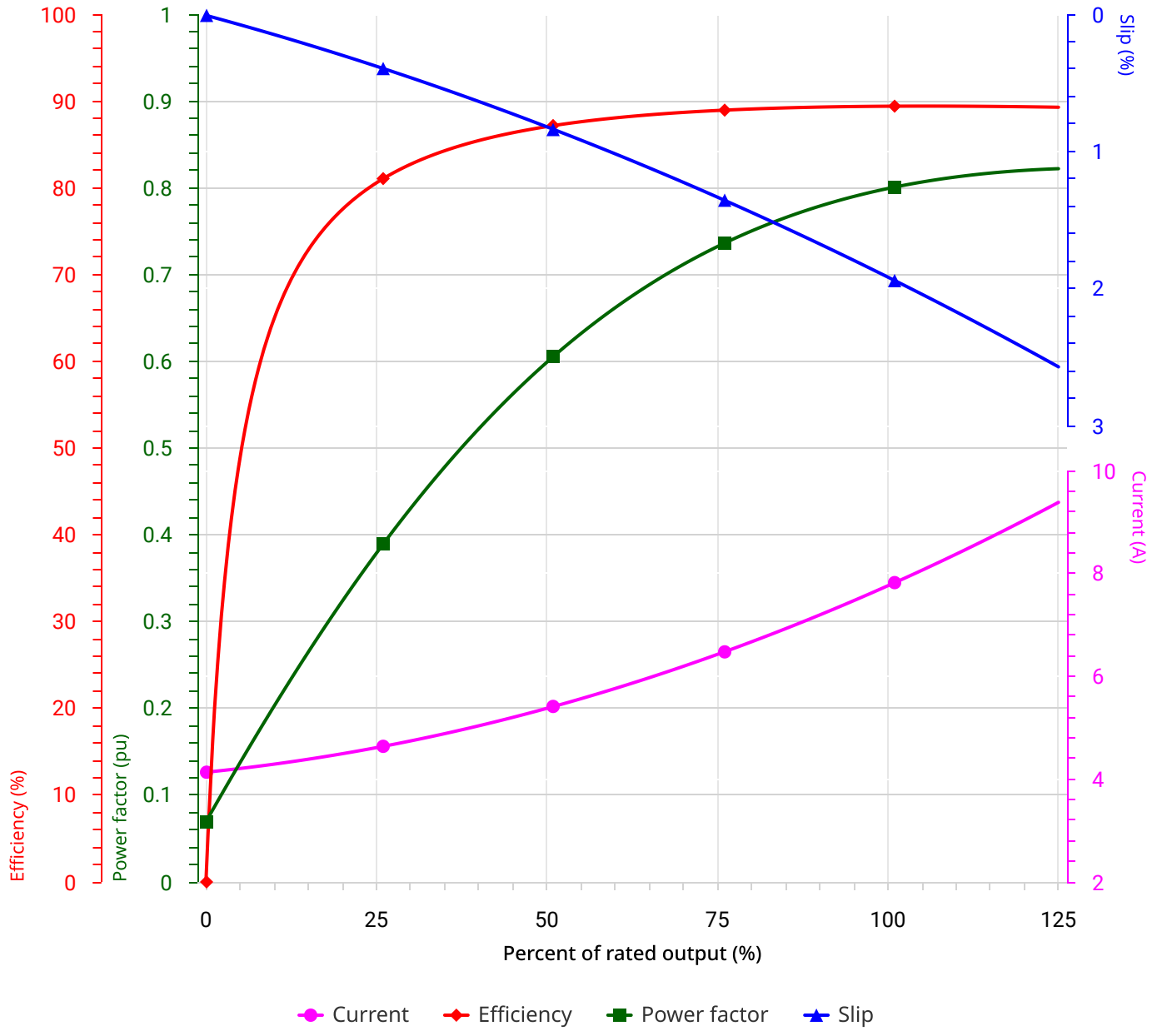
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 12674731



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

Rated current	: 8.54/7.72/3.86 A	Moment of inertia (J)	: 0.013 kgm²
LRC	: 8.4 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.23 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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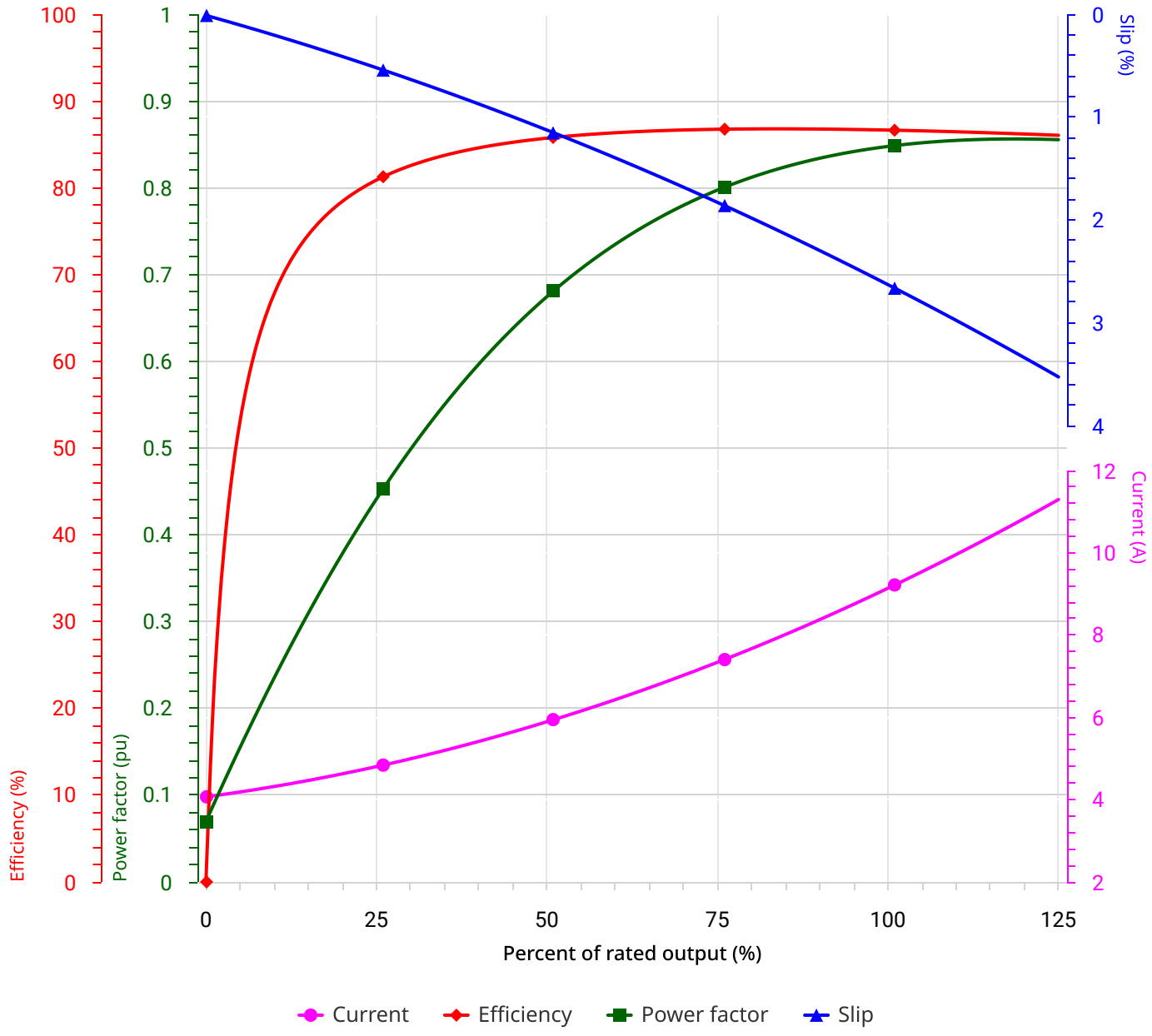
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12674731



Performance	: 3 HP (2.2 kW) 190/380V 50Hz 4P 182/4TC

Rated current	: 9.08/4.54 A	Moment of inertia (J)	: 0.013 kgm²
LRC	: 6.4 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.49 kgfm	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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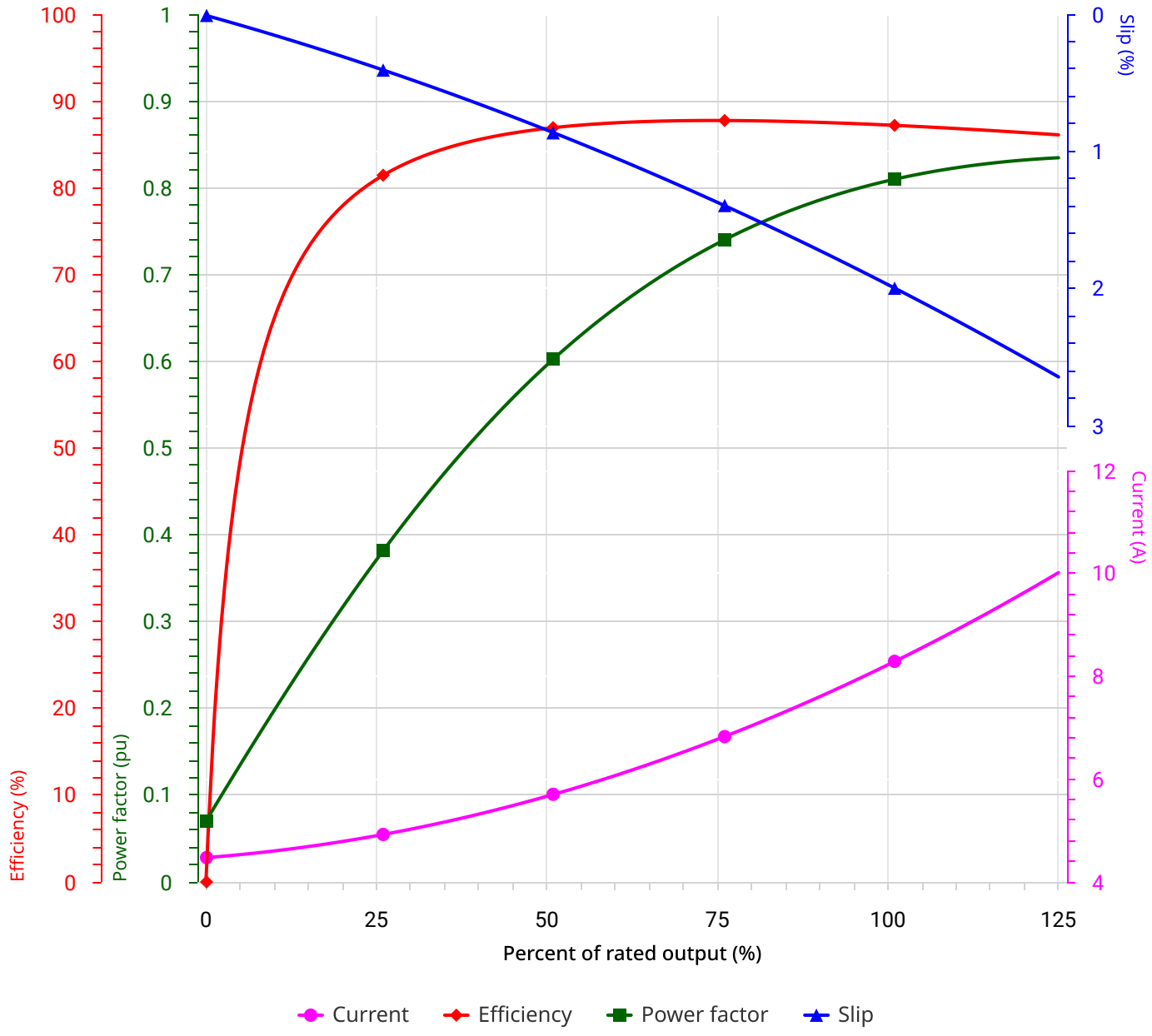
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 12674731



Performance	: 3 HP (2.2 kW) 220/415V 50Hz 4P 182/4TC

Rated current	: 8.17/4.33 A	Moment of inertia (J)	: 0.013 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.48 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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