DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12636473

Frame	: 254/6TC	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	: 85.8 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0767 kgm²
Design	: B		

Output		15 HP (11 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	400 V
Rated current		37.2/18.6 A	32.2/16.1 A	15.9 A
L. R. Amperes		249/125 A	232/116 A	121 A
LRC		6.7 Code H	7.2 Code J	7.6 Code K
No load current		19.0/9.50 A	17.5/8.75 A	9.50 A
Rated speed		1775 rpm	1480 rpm	1480 rpm
Slip		1.39 %	1.33 %	1.33 %
Rated torque		6.13 kgfm	4.90 kgfm	4.90 kgfm
Locked rotor torque		240 %	240 %	270 %
Breakdown torque		300 %	340 %	390 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level		64 dB(A)	62 dB(A)	62 dB(A)
Locked rotor time		17 s (hot) 31 s (cold)	18 s (hot) 32 s (cold)	18 s (hot) 32 s (cold)
Efficiency (%)	50%	91.7	90.3	89.5
	75%	92.4	90.5	90.5
	100%	93.0	90.7	90.6
Power Factor	Start	0.50	0.53	0.53
	50%	0.62	0.58	0.53
	75%	0.73	0.71	0.67
	100%	0.8	0.78	0.75
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	6309-Z-C3	6208-Z-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	8 g
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/10/31

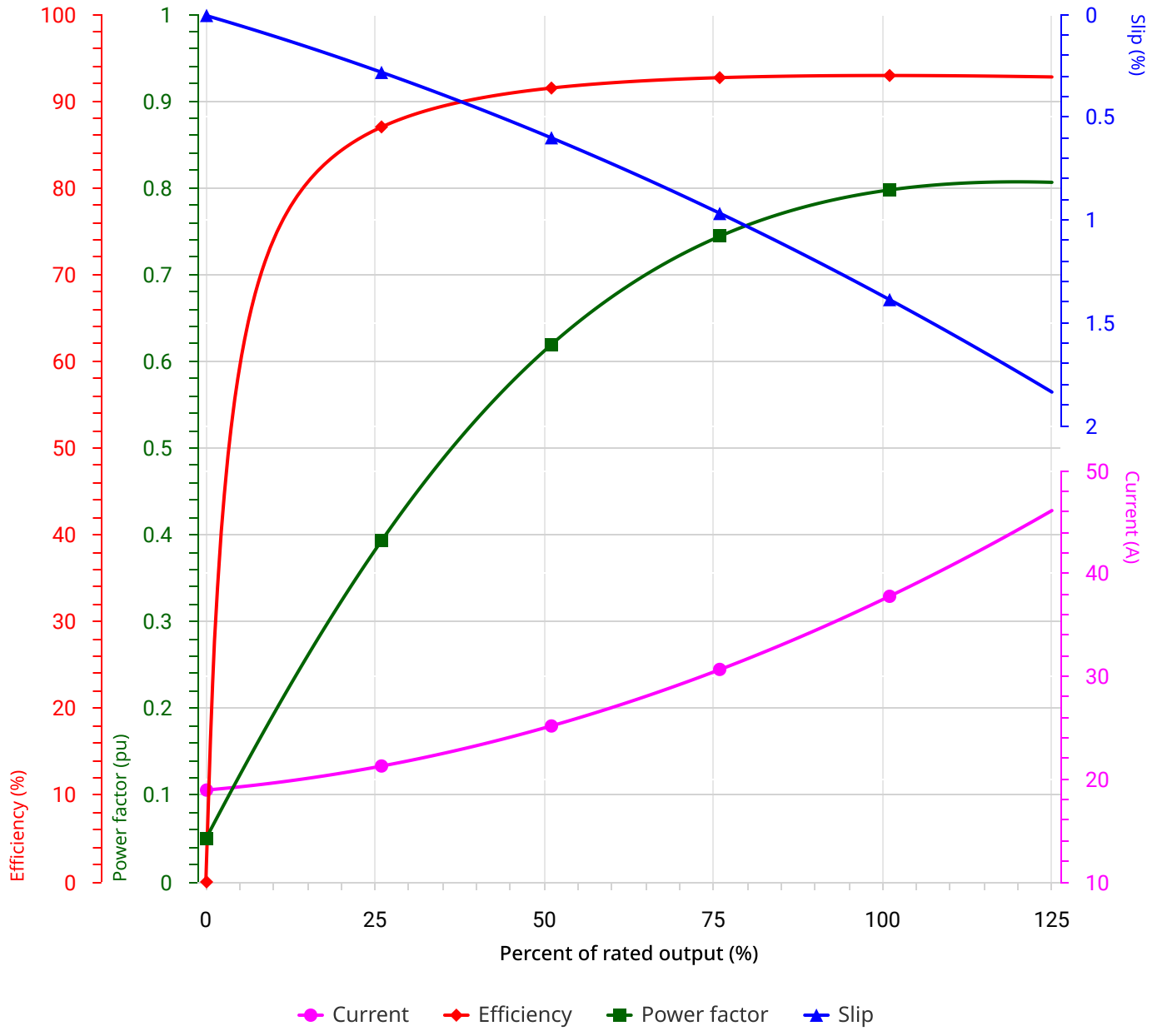
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12636473



Performance	: 15 HP (11 kW) 208/230/460V 60Hz 4P 254/6TC

Rated current	: 41.1/37.2/18.6 A	Moment of inertia (J)	: 0.0767 kgm²
LRC	: 6.7 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 6.13 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

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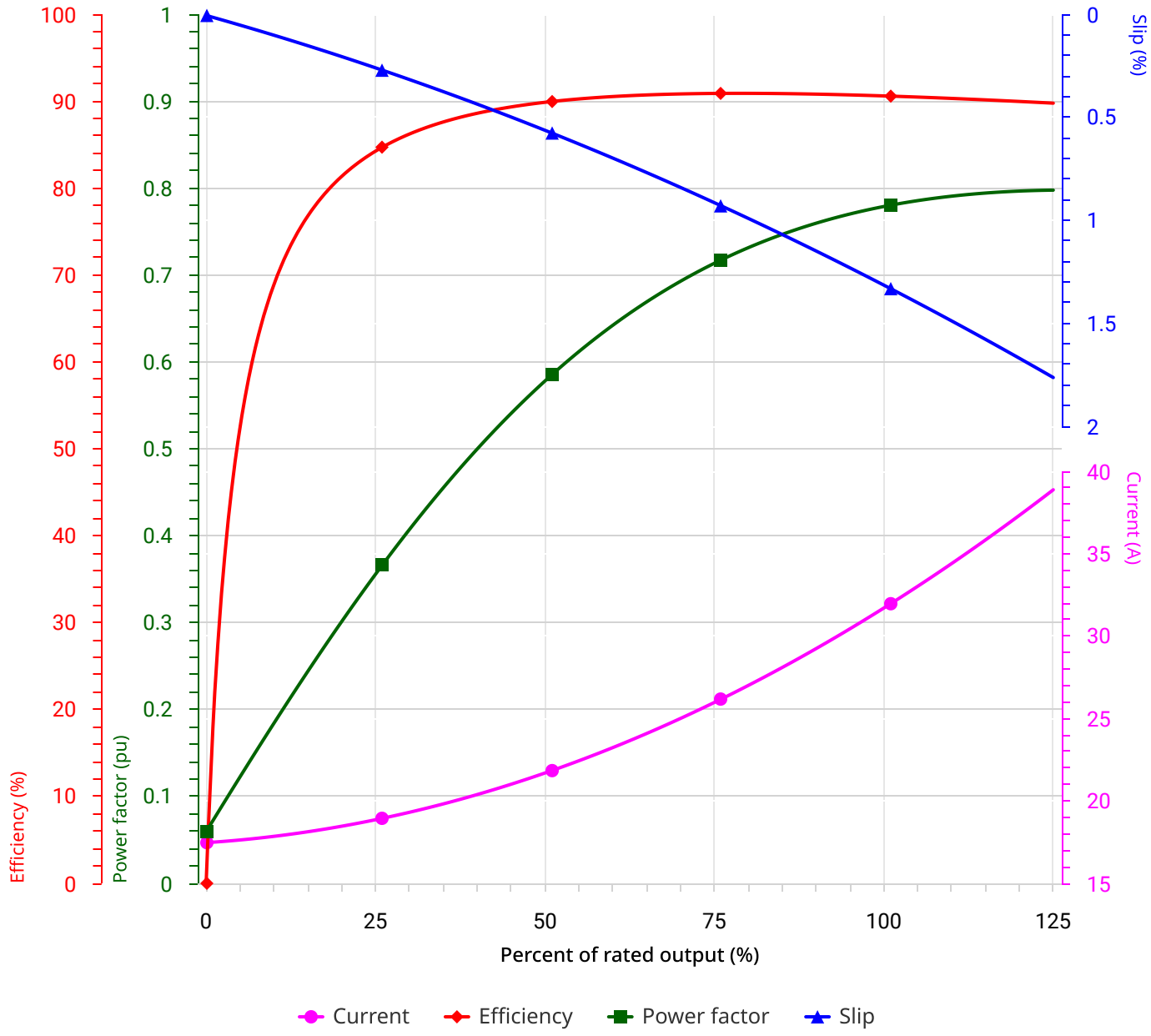
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12636473



Performance	: 10 HP (7.5 kW) 190/380V 50Hz 4P 254/6TC

Rated current	: 32.2/16.1 A	Moment of inertia (J)	: 0.0767 kgm²
LRC	: 7.2 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 4.90 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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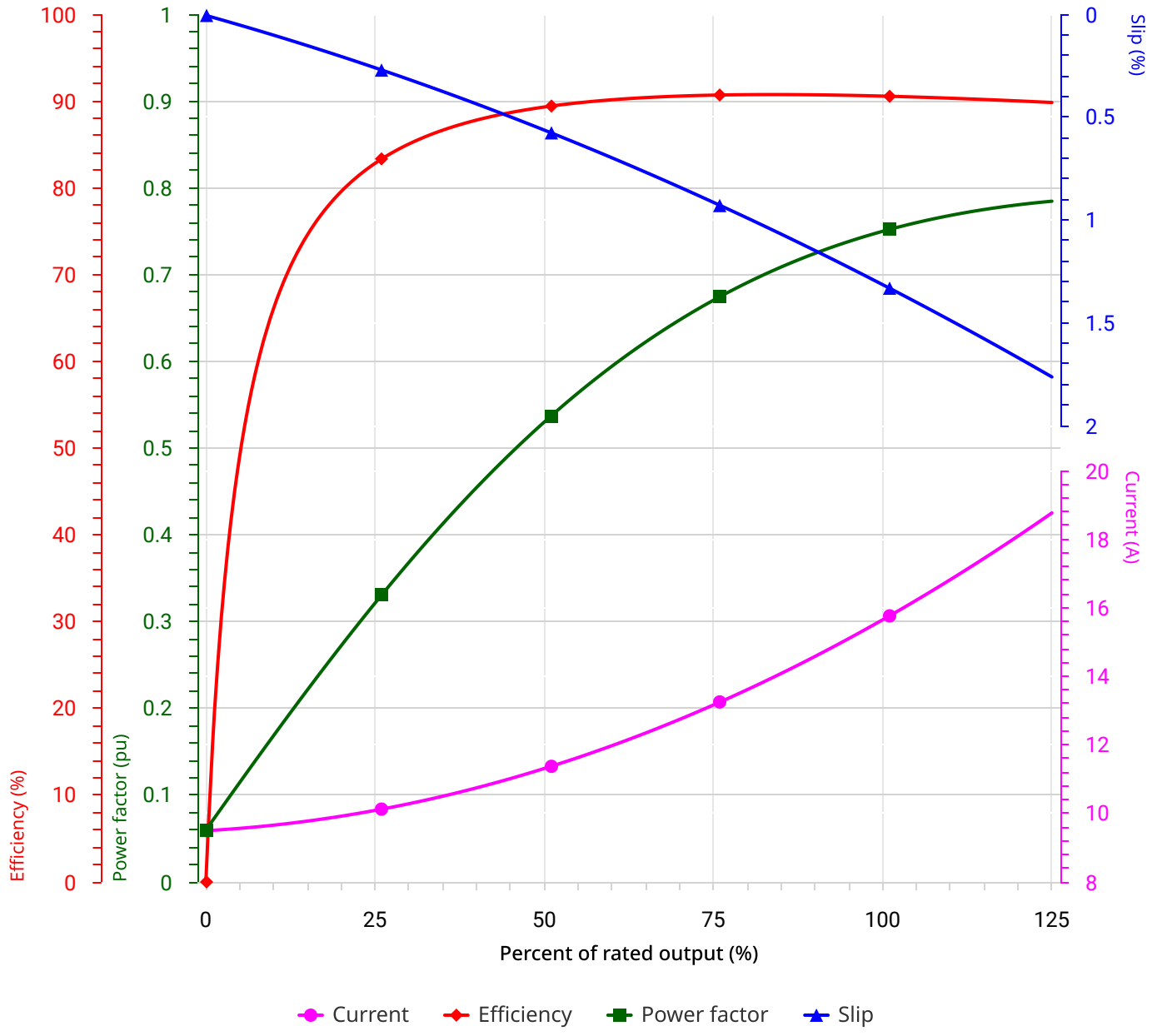
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency - Derating
Product code	: 12636473



Performance	: 10 HP (7.5 kW) 400V 50Hz 4P 254/6TC

Rated current	: 15.9 A	Moment of inertia (J)	: 0.0767 kgm²
LRC	: 7.6 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 4.90 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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