DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 12691267

Frame	: 254/6JM	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	: 81.3 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0331 kgm²
Design	: B		

Output		20 HP (15 kW)	20 HP (15 kW)	20 HP (15 kW)
Poles		2	2	2
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	400 V
Rated current		47.6/23.8 A	58.0/29.0 A	27.4 A
L. R. Amperes		286/143 A	261/131 A	140 A
LRC		6.0 Code G	4.5 Code D	5.1 Code E
No load current		17.0/8.50 A	16.2/8.09 A	9.04 A
Rated speed		3525 rpm	2895 rpm	2905 rpm
Slip		2.08 %	3.50 %	3.17 %
Rated torque		4.12 kgfm	5.01 kgfm	5.00 kgfm
Locked rotor torque		180 %	130 %	140 %
Breakdown torque		240 %	190 %	210 %
Service factor		1.15	1.00	1.00
Temperature rise		80 K	95 K	80 K
Noise level		70 dB(A)	68 dB(A)	68 dB(A)
Locked rotor time		13 s (hot) 23 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)
Efficiency (%)	50%	90.2	90.6	90.6
	75%	91.0	89.5	90.0
	100%	91.0	87.2	88.7
Power Factor	Start	0.46	0.50	0.50
	50%	0.76	0.82	0.78
	75%	0.83	0.88	0.86
	100%	0.87	0.9	0.89
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
				2026/10/30

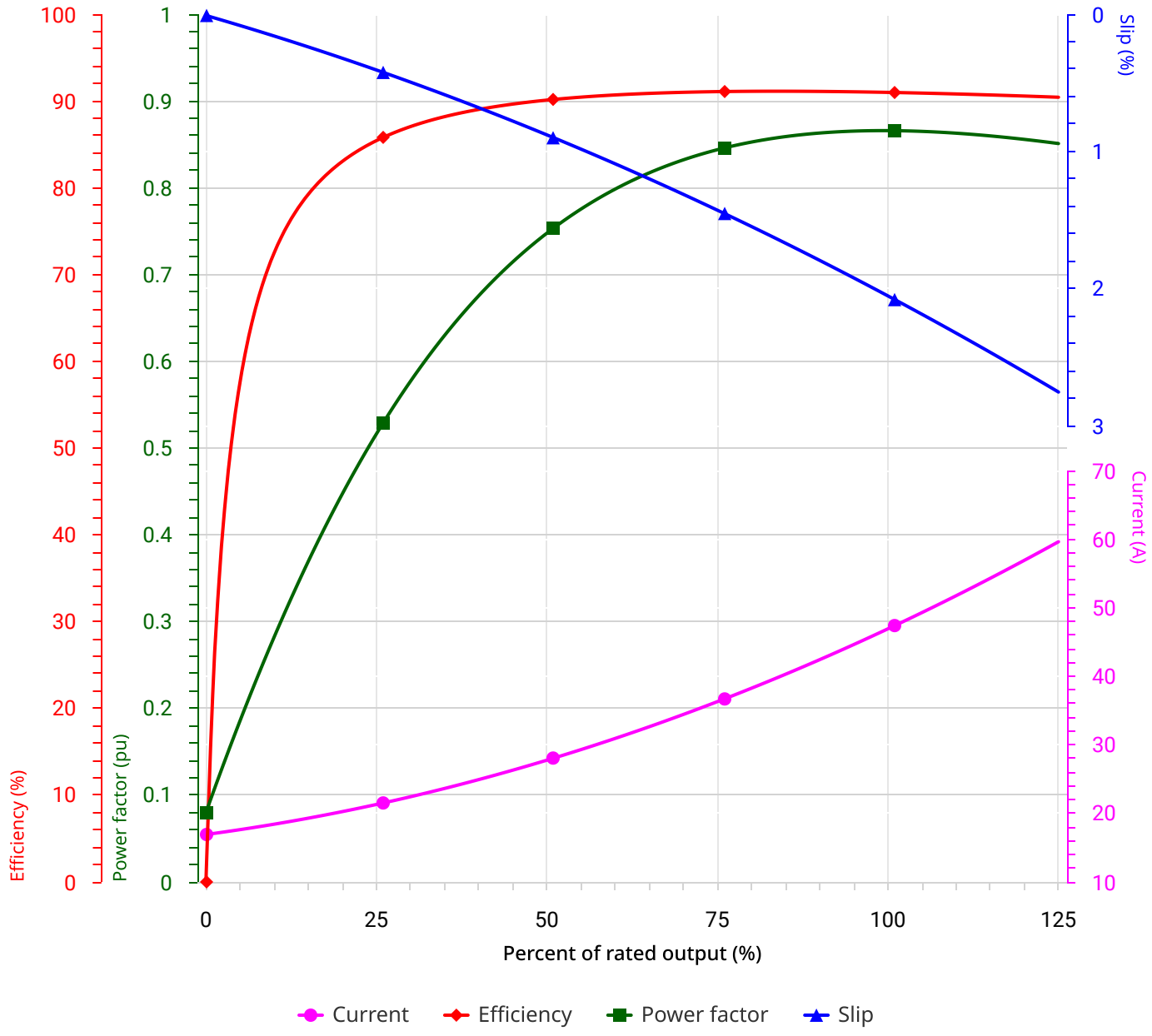
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LOAD PERFORMANCE CURVE

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Customer	:
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Product code	: 12691267



Performance	: 20 HP (15 kW) 208/230/460V 60Hz 2P 254/6JM

Rated current	: 52.6/47.6/23.8 A	Moment of inertia (J)	: 0.0331 kgm²
LRC	: 6.0 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 4.12 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3525 rpm	Design	: B

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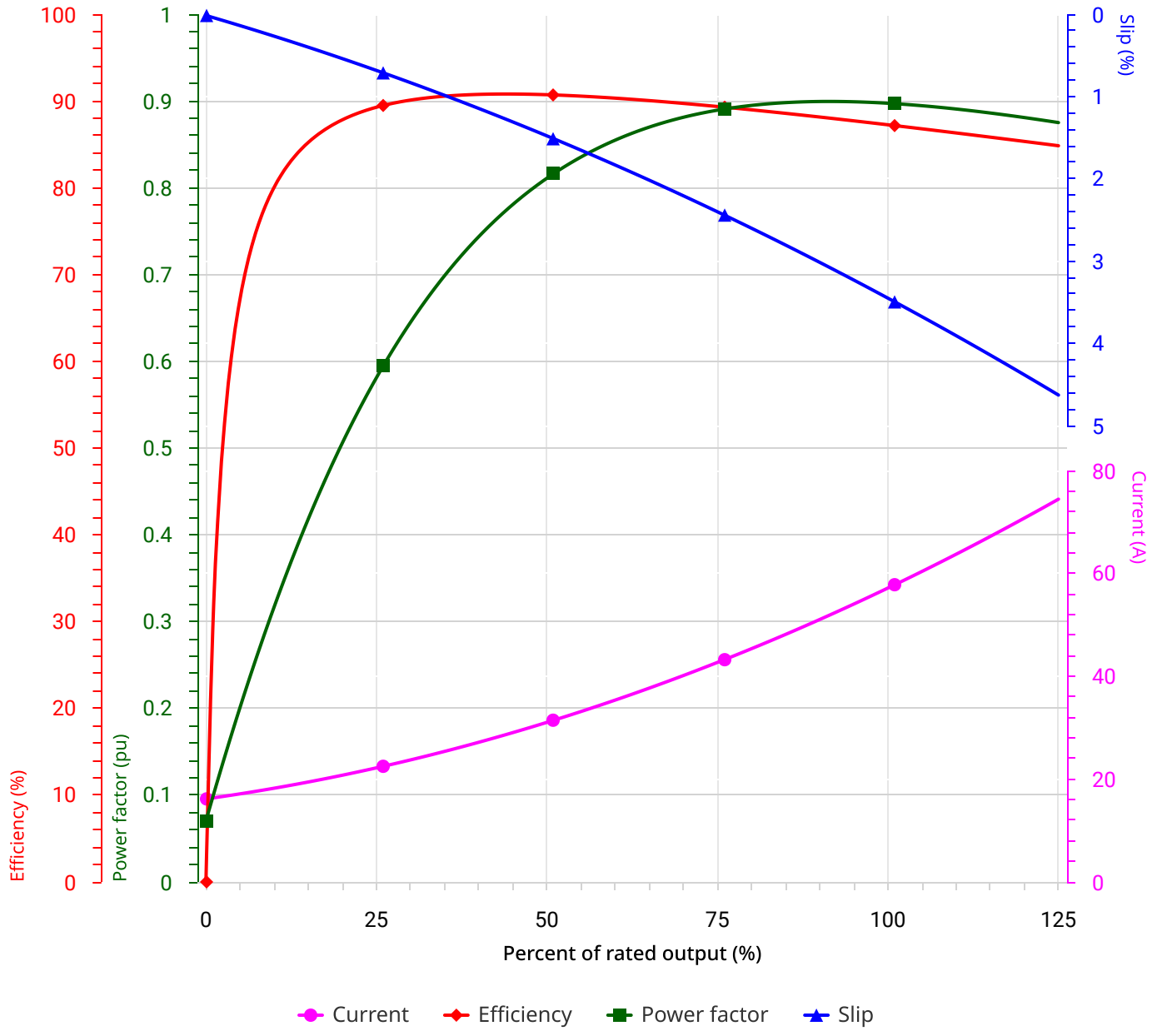
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 12691267



Performance	: 20 HP (15 kW) 190/380V 50Hz 2P 254/6JM

Rated current	: 58.0/29.0 A	Moment of inertia (J)	: 0.0331 kgm²
LRC	: 4.5 Code D	Duty cycle	: Cont.(S1)
Rated torque	: 5.01 kgfm	Insulation class	: F
Locked rotor torque	: 130 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 95 K
Rated speed	: 2895 rpm	Design	: B

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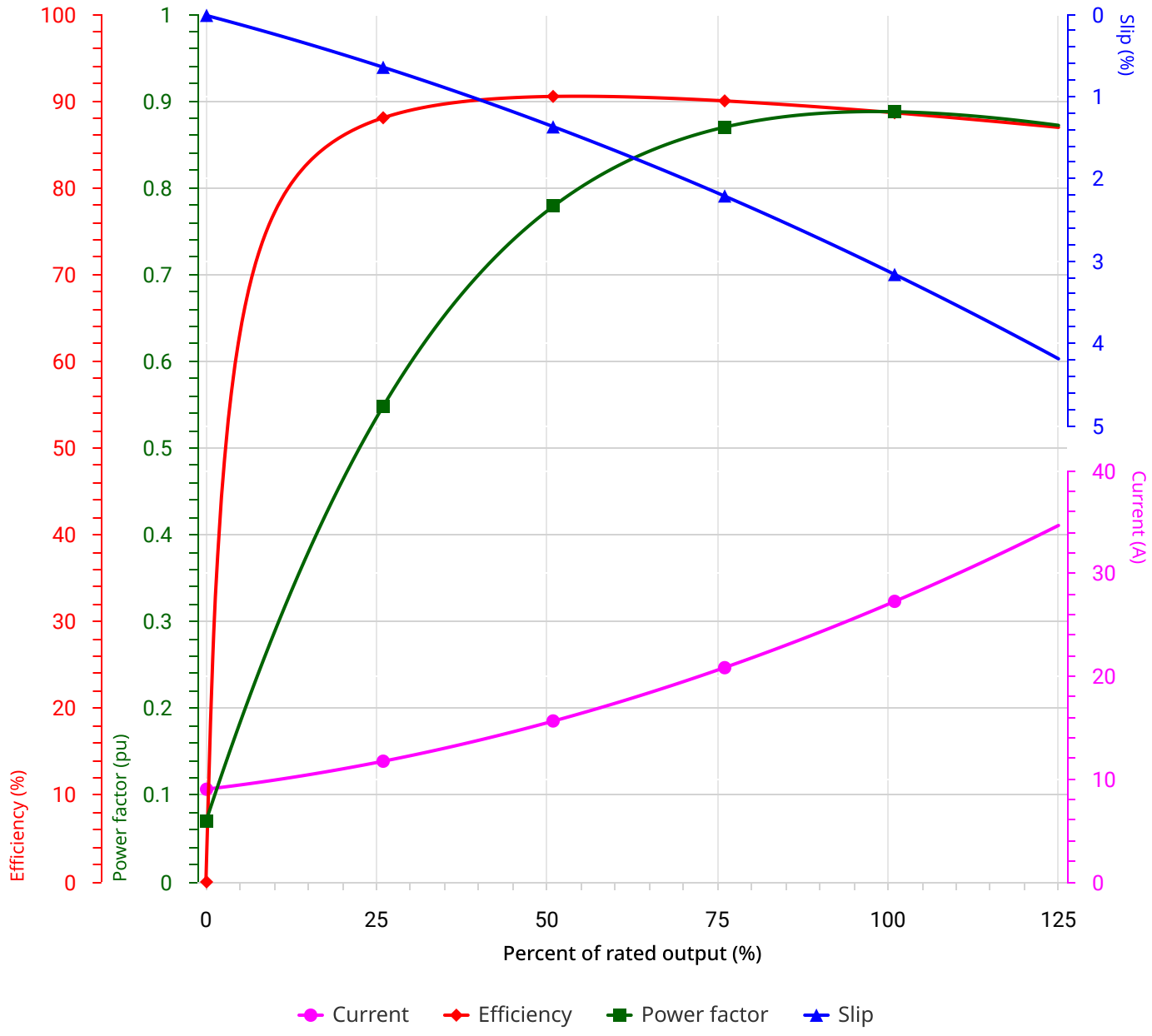
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 12691267



Performance	: 20 HP (15 kW) 400V 50Hz 2P 254/6JM

Rated current	: 27.4 A	Moment of inertia (J)	: 0.0331 kgm²
LRC	: 5.1 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 5.00 kgfm	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: B

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