DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency Derating
Product code	: 12707693

Frame	: 254/6T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1/B3R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 79.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0367 kgm²
Design	: B		

Output		15 HP (11 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)
Poles		2	2	2
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	220/415 V
Rated current		34.8/17.4 A	29.2/14.6 A	26.8/14.2 A
L. R. Amperes		237/118 A	248/124 A	260/138 A
LRC		6.8 Code G	8.5 Code K	9.7 Code L
No load current		10.4/5.20 A	13.6/6.80 A	14.8/7.86 A
Rated speed		3525 rpm	2940 rpm	2950 rpm
Slip		2.08 %	2.00 %	1.67 %
Rated torque		3.09 kgfm	2.47 kgfm	2.46 kgfm
Locked rotor torque		200 %	240 %	290 %
Breakdown torque		300 %	360 %	450 %
Service factor		1.15	1.00	1.00
Temperature rise		80 K	80 K	80 K
Noise level		75 dB(A)	72 dB(A)	72 dB(A)
Locked rotor time		14 s (hot) 25 s (cold)	25 s (hot) 45 s (cold)	22 s (hot) 40 s (cold)
Efficiency (%)	50%	89.5	89.3	88.5
	75%	91.0	90.6	90.4
	100%	91.0	90.5	90.8
Power Factor	Start	0.47	0.51	0.51
	50%	0.73	0.66	0.59
	75%	0.83	0.79	0.73
	100%	0.87	0.86	0.81
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		10.03	10.02	10.06
P2 (0,5;1,0)		8.15	8.14	8.17
P3 (0,25;1,0)		7.38	7.37	7.40
P4 (0,9;0,5)		5.49	5.48	5.50
P5 (0,5;0,5)		3.54	3.54	3.55
P6 (0,5;0,25)		2.50	2.49	2.50
P7 (0,25;0,25)		1.72	1.72	1.72

	Drive end	Non drive end
Bearing type	6309-Z-C3	6208-Z-C3
Lubrication interval	15797 h	20000 h
Lubricant amount	13 g	8 g
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/12

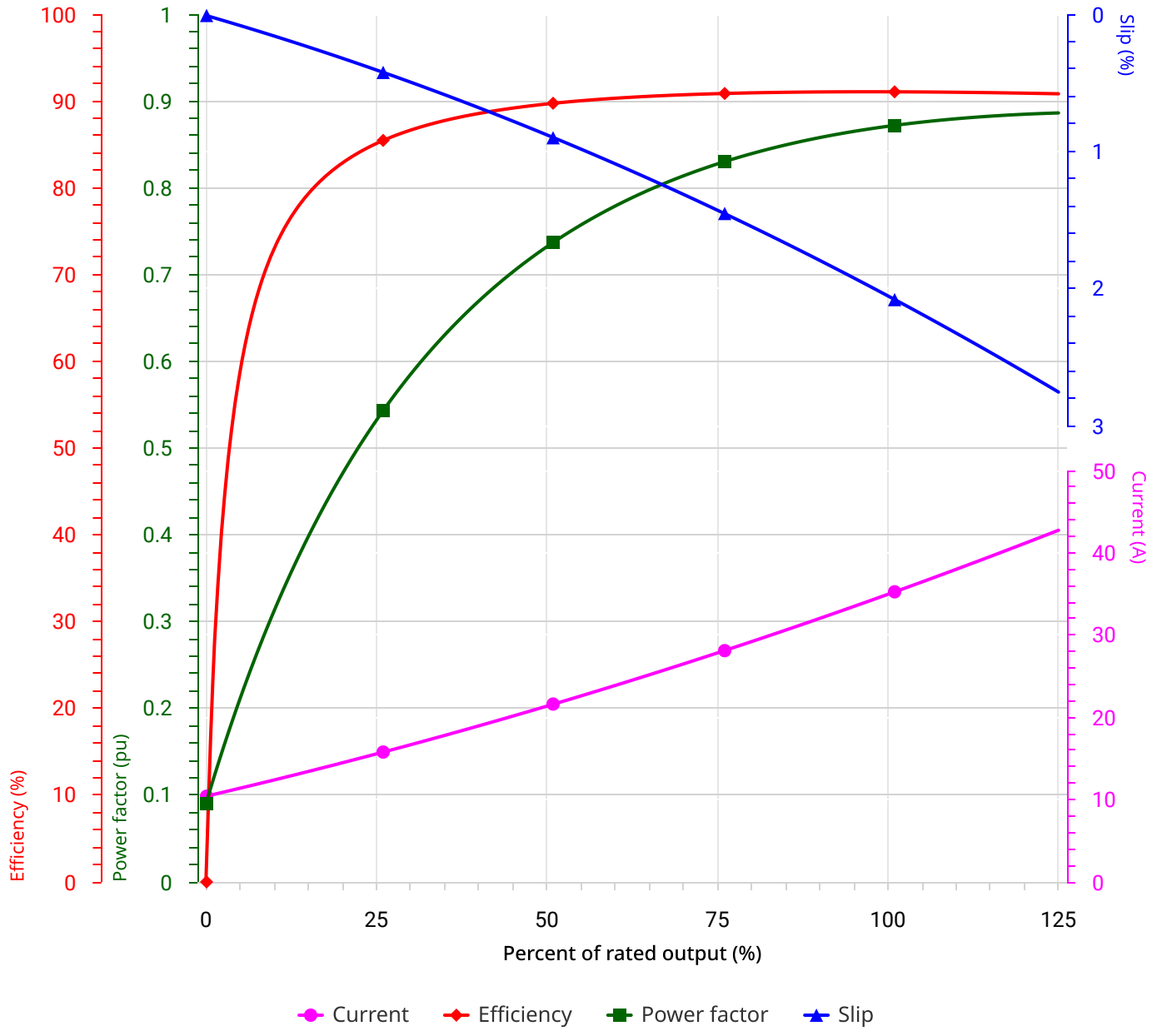
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LOAD PERFORMANCE CURVE

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Customer	:
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Performance	: 15 HP (11 kW) 208/230/460V 60Hz 2P 254/6T

Rated current	: 38.5/34.8/17.4 A	Moment of inertia (J)	: 0.0367 kgm²
LRC	: 6.8 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 3.09 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3525 rpm	Design	: B

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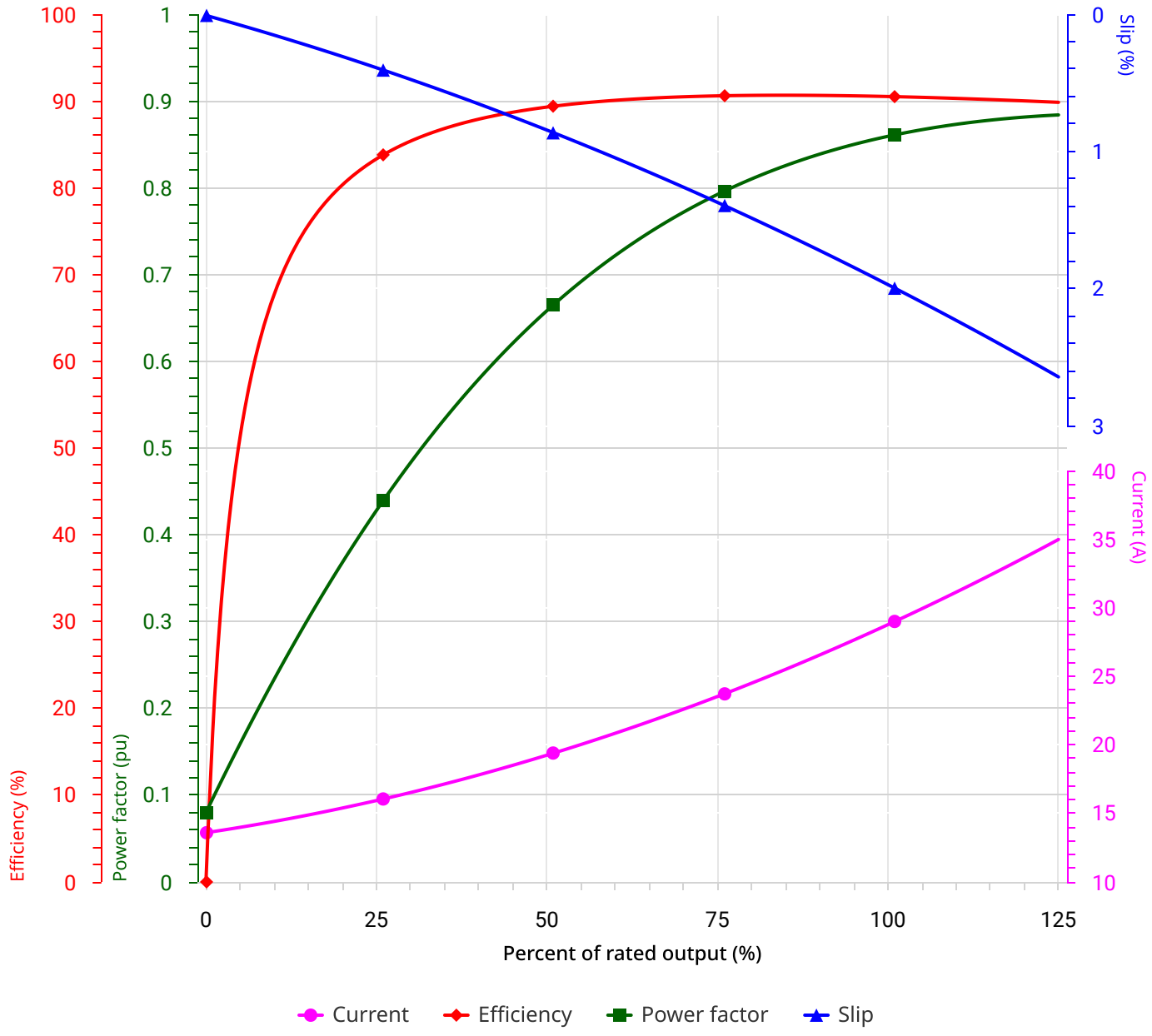
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency Derating
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Performance	: 10 HP (7.5 kW) 190/380V 50Hz 2P 254/6T

Rated current	: 29.2/14.6 A	Moment of inertia (J)	: 0.0367 kgm²
LRC	: 8.5 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 2.47 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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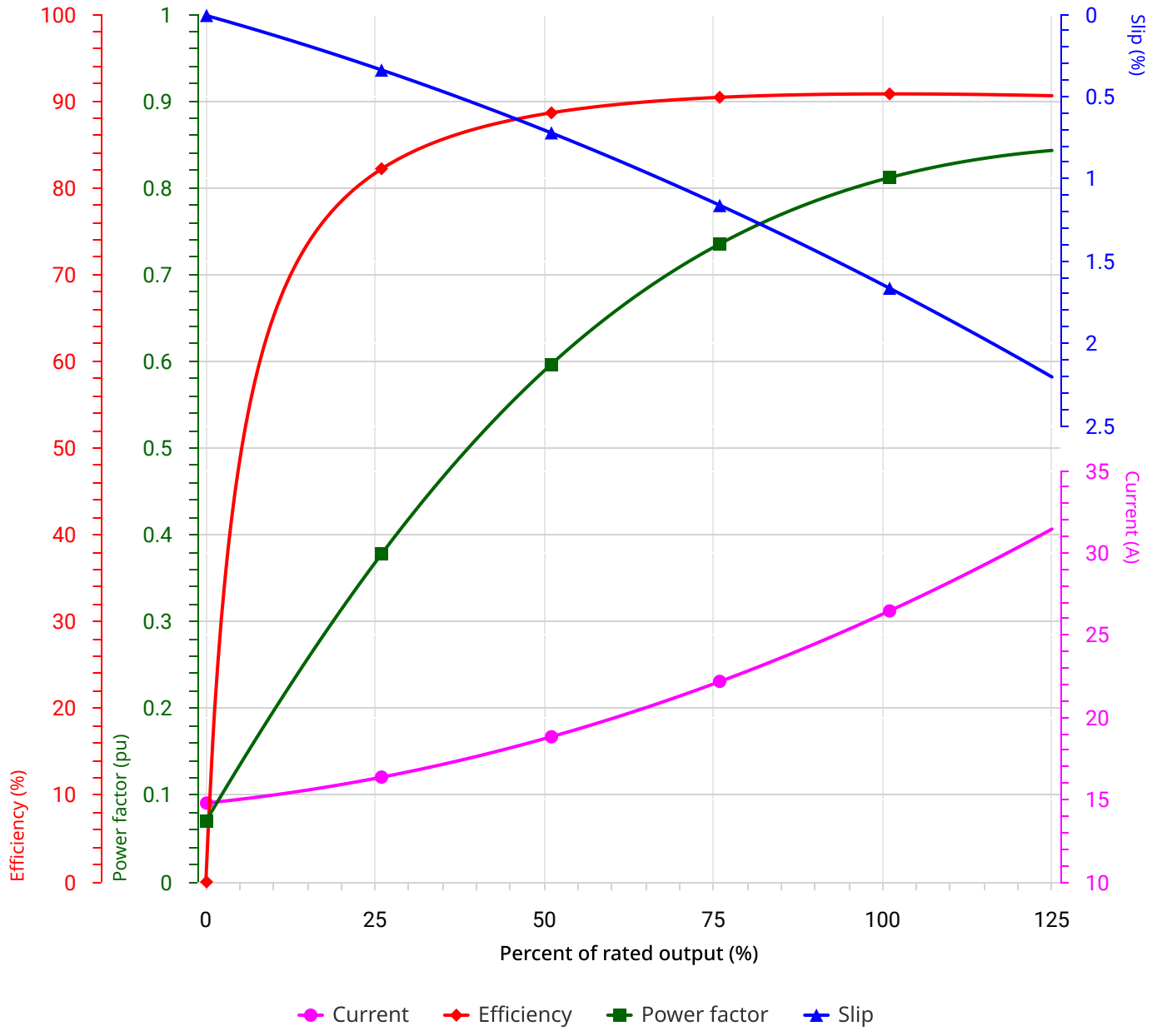
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Three Phase Induction Motor - Squirrel Cage

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Performance	: 10 HP (7.5 kW) 220/415V 50Hz 2P 254/6T

Rated current	: 26.8/14.2 A	Moment of inertia (J)	: 0.0367 kgm²
LRC	: 9.7 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.00
Breakdown torque	: 450 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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