DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13439527

Frame	: 254/6JM	Cooling method	: IC411 - TEFC
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	: 100 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0551 kgm²
Design	: A		

Output		25 HP (18.5 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	220/415 V
Rated current		57.0/28.5 A	55.8/27.9 A	49.6/26.3 A
L. R. Amperes		473/237 A	441/220 A	442/234 A
LRC		8.3 Code J	7.9 Code J	8.9 Code K
No load current		20.1/10.0 A	19.8/9.91 A	21.6/11.4 A
Rated speed		3530 rpm	2930 rpm	2945 rpm
Slip		1.94 %	2.33 %	1.83 %
Rated torque		5.14 kgfm	4.95 kgfm	4.93 kgfm
Locked rotor torque		240 %	230 %	280 %
Breakdown torque		340 %	330 %	400 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level		75 dB(A)	72 dB(A)	72 dB(A)
Locked rotor time		8 s (hot) 14 s (cold)	8 s (hot) 14 s (cold)	7 s (hot) 13 s (cold)
Efficiency (%)	50%	91.0	92.3	91.9
	75%	91.7	92.4	92.6
	100%	91.7	91.9	92.3
Power Factor	Start	0.49	0.52	0.52
	50%	0.77	0.77	0.70
	75%	0.85	0.86	0.81
	100%	0.89	0.89	0.86
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		8.92	7.70	8.10
P2 (0,5;1,0)		7.43	6.41	6.74
P3 (0,25;1,0)		6.71	5.80	6.09
P4 (0,9;0,5)		4.63	4.00	4.20
P5 (0,5;0,5)		3.11	2.68	2.82
P6 (0,5;0,25)		2.12	1.83	1.93
P7 (0,25;0,25)		1.46	1.26	1.32

	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

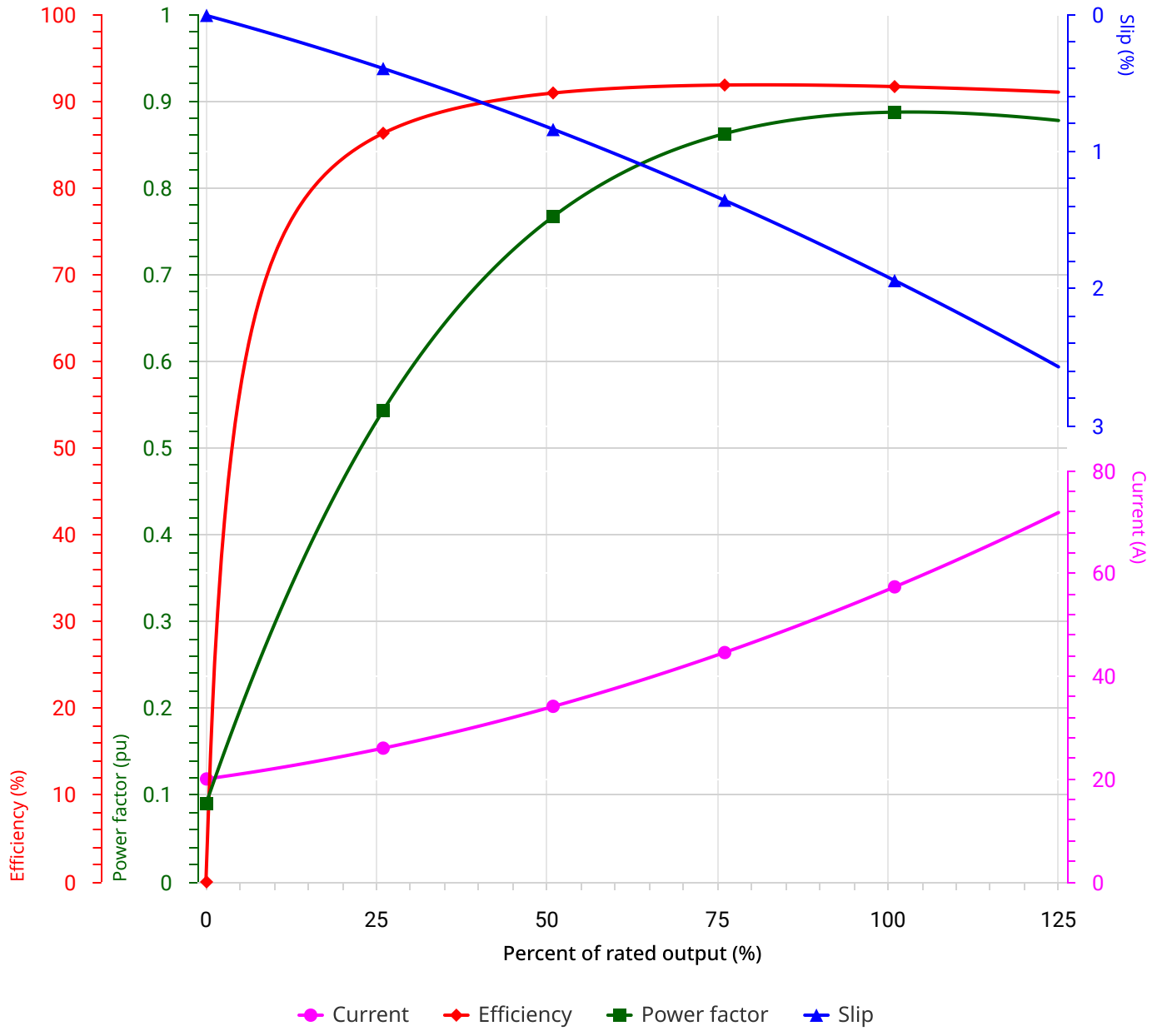
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Customer	:
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Product code	: 13439527



Performance	: 25 HP (18.5 kW) 208/230/460V 60Hz 2P 254/6JM

Rated current	: 63.0/57.0/28.5 A	Moment of inertia (J)	: 0.0551 kgm²
LRC	: 8.3 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 5.14 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: A

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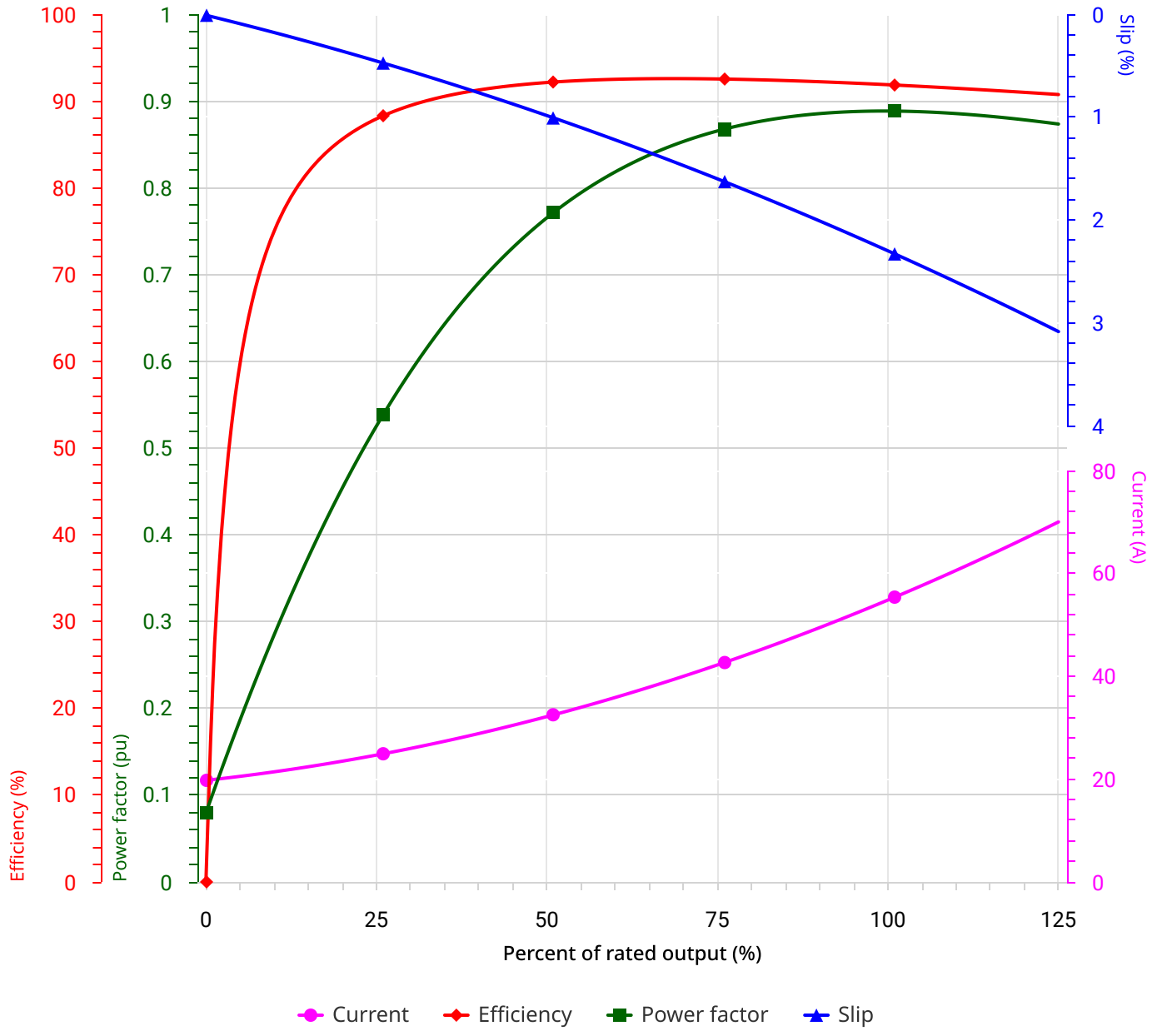
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Three Phase Induction Motor - Squirrel Cage

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

Rated current	: 55.8/27.9 A	Moment of inertia (J)	: 0.0551 kgm²
LRC	: 7.9 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 4.95 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: A

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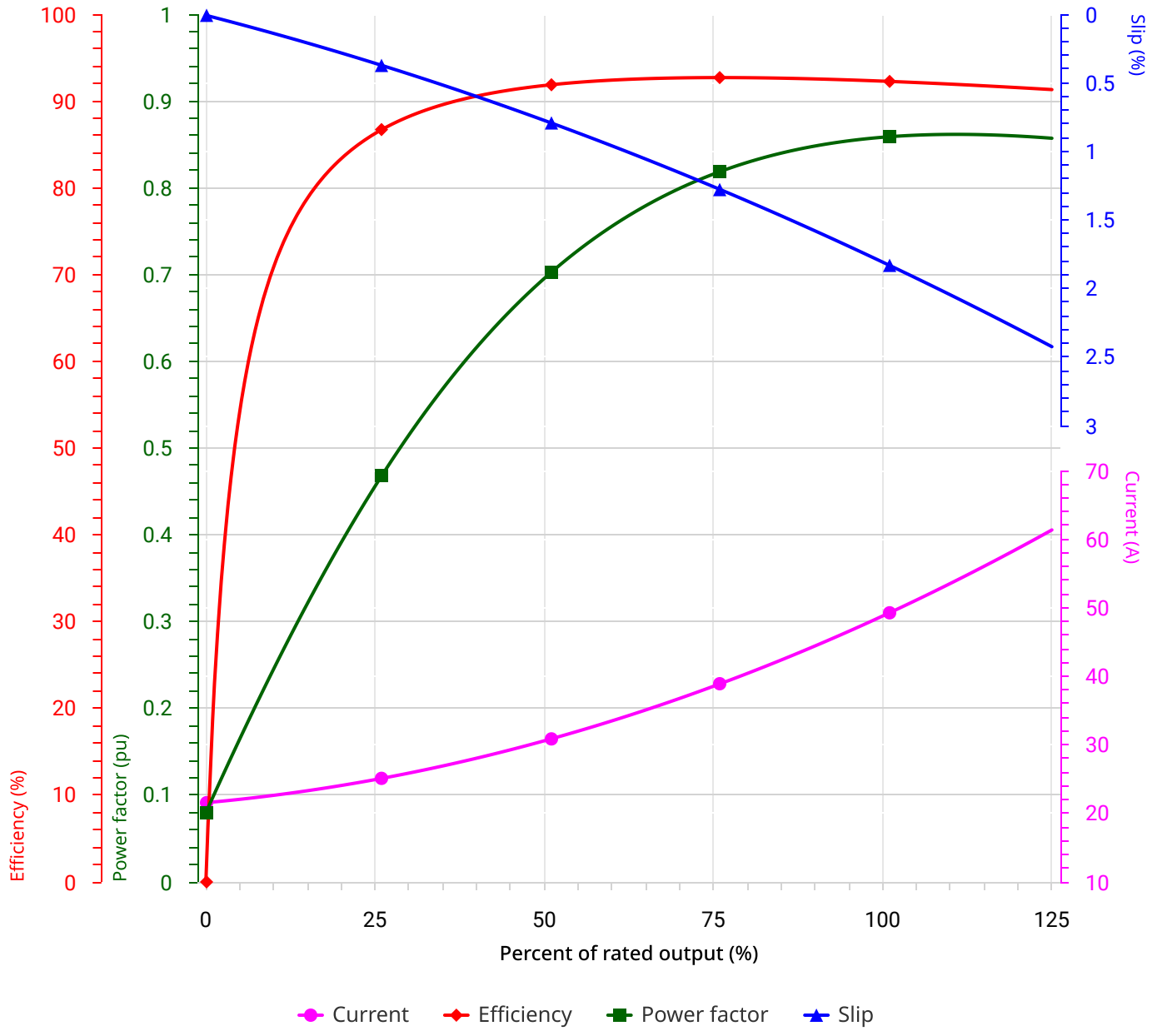
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Three Phase Induction Motor - Squirrel Cage

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Performance	: 20 HP (15 kW) 220/415V 50Hz 2P 254/6JM

Rated current	: 49.6/26.3 A	Moment of inertia (J)	: 0.0551 kgm²
LRC	: 8.9 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 4.93 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: A

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