DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - TEFC - Nema Premium Efficiency Derating
Product code	: 12675397

Frame	: 213/5T	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	: 73.6 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0303 kgm²
Design	: B		

Output		10 HP (7.5 kW)	7.5 HP (5.5 kW)	7.5 HP (5.5 kW)
Poles		2	2	2
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	400 V
Rated current		23.7/11.9 A	21.5/10.8 A	10.4 A
L. R. Amperes		178/88.9 A	170/85.1 A	88.3 A
LRC		7.5 Code J	7.9 Code J	8.5 Code K
No load current		8.60/4.30 A	8.60/4.30 A	4.70 A
Rated speed		3530 rpm	2935 rpm	2945 rpm
Slip		1.94 %	2.17 %	1.83 %
Rated torque		2.06 kgfm	1.85 kgfm	1.85 kgfm
Locked rotor torque		260 %	260 %	280 %
Breakdown torque		300 %	320 %	360 %
Service factor		1.15	1.00	1.00
Temperature rise		80 K	80 K	80 K
Noise level		70 dB(A)	67 dB(A)	67 dB(A)
Locked rotor time		16 s (hot) 29 s (cold)	19 s (hot) 34 s (cold)	18 s (hot) 32 s (cold)
Efficiency (%)	50%	89.5	89.0	90.1
	75%	90.2	89.2	89.7
	100%	90.2	89.2	89.9
Power Factor	Start	0.56	0.58	0.59
	50%	0.75	0.72	0.67
	75%	0.84	0.82	0.79
	100%	0.88	0.87	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		9.55	10.77	10.53
P2 (0,5;1,0)		7.67	8.64	8.45
P3 (0,25;1,0)		7.49	8.44	8.25
P4 (0,9;0,5)		5.36	6.04	5.90
P5 (0,5;0,5)		3.42	3.86	3.77
P6 (0,5;0,25)		2.47	2.78	2.72
P7 (0,25;0,25)		1.67	1.88	1.84

	Drive end	Non drive end
Bearing type	6208-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/09

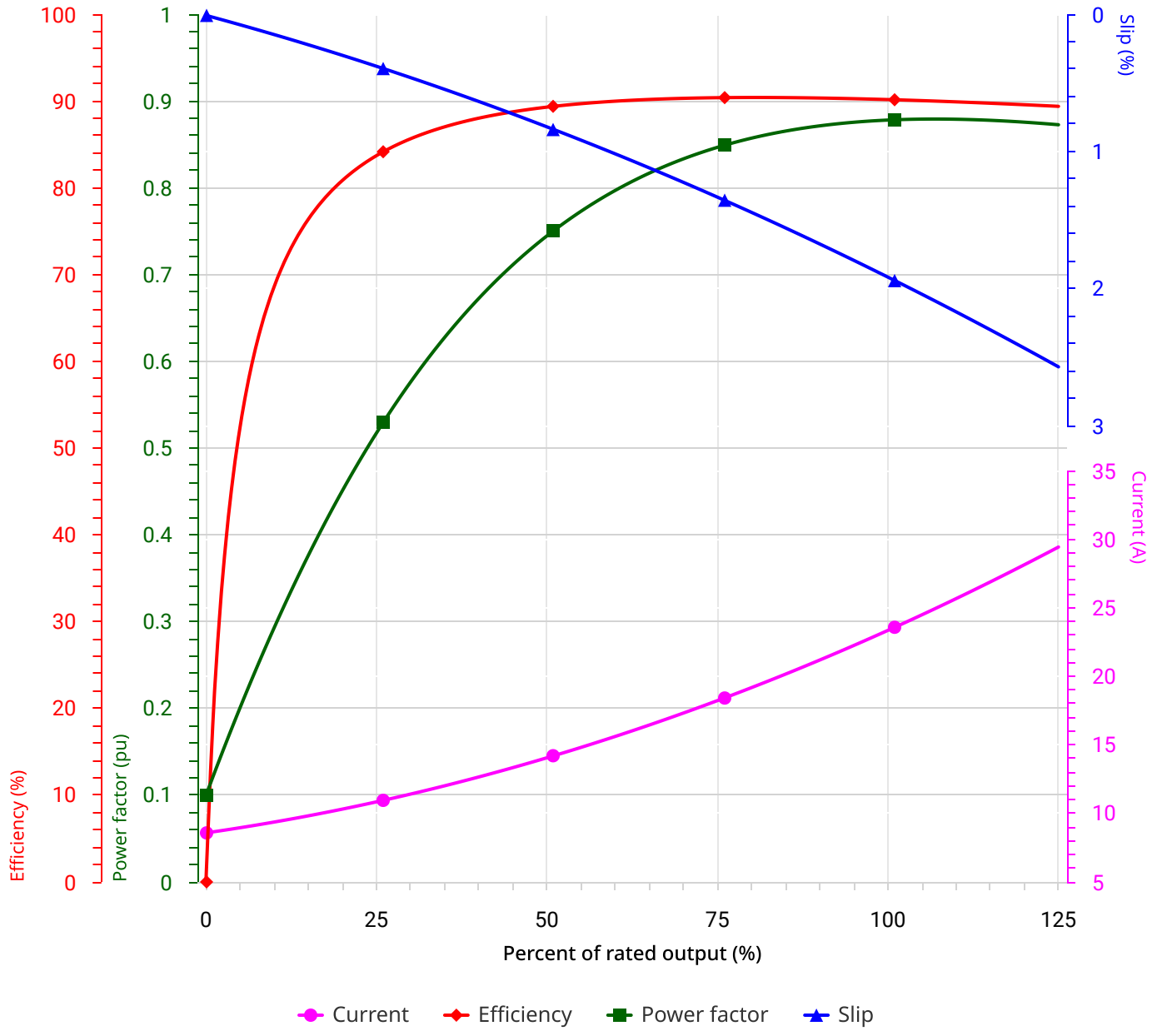
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency Derating
Product code	: 12675397



Performance	: 10 HP (7.5 kW) 208/230/460V 60Hz 2P 213/5T

Rated current	: 25.4/23.7/11.9 A	Moment of inertia (J)	: 0.0303 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.06 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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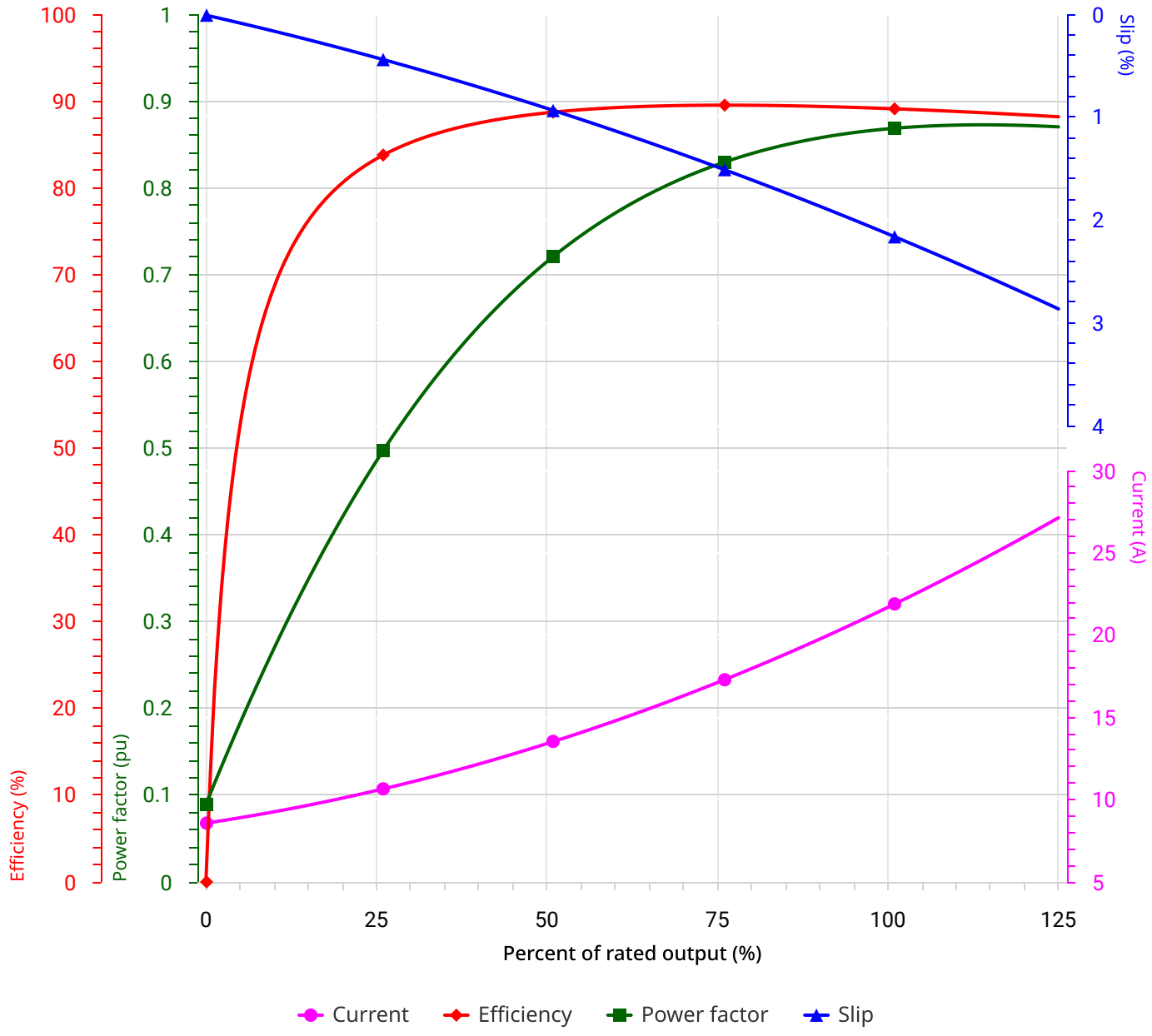
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency Derating
Product code	: 12675397



Performance	: 7.5 HP (5.5 kW) 190/380V 50Hz 2P 213/5T

Rated current	: 21.5/10.8 A	Moment of inertia (J)	: 0.0303 kgm²
LRC	: 7.9 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.85 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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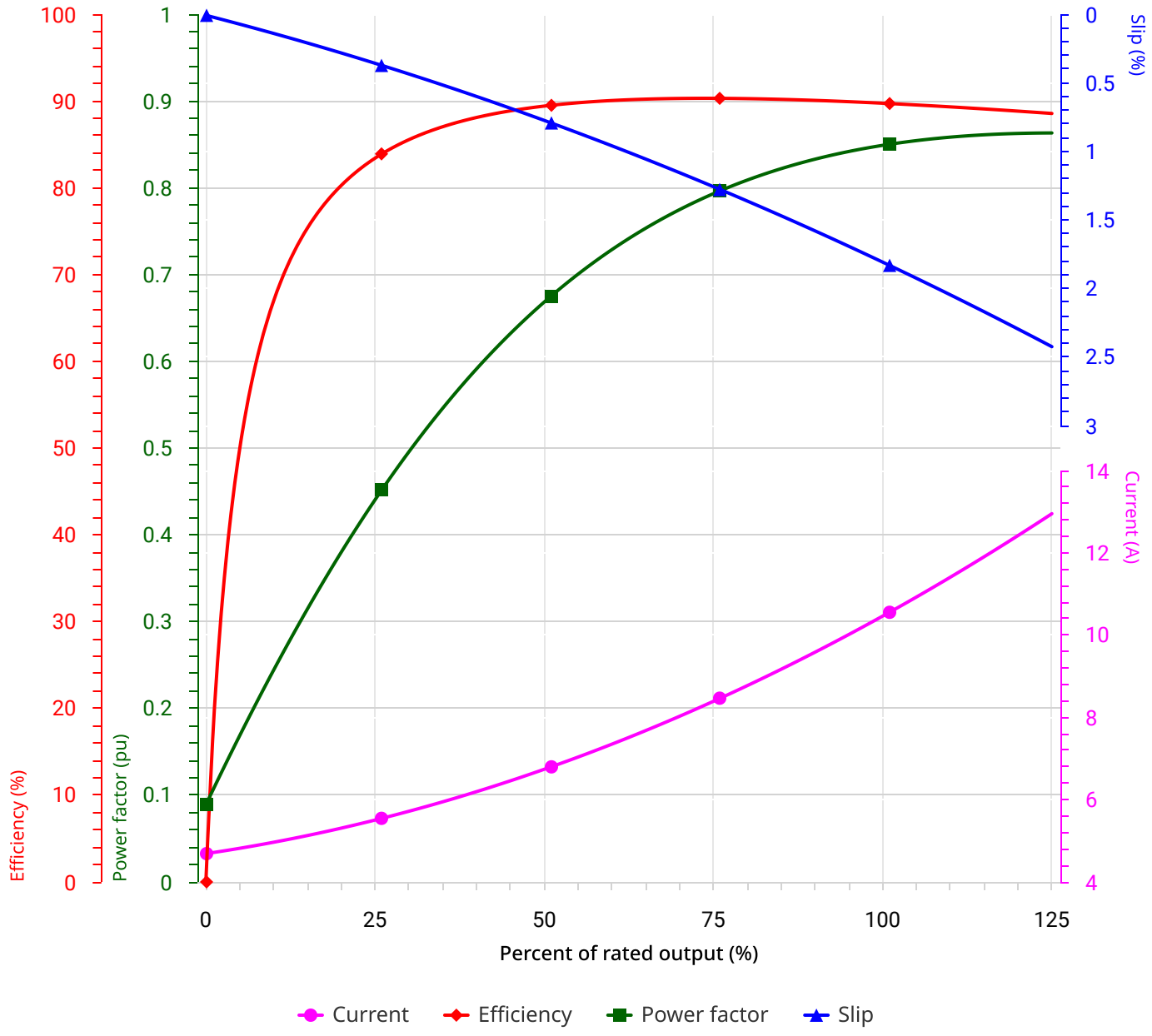
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency Derating
Product code	: 12675397



Performance	: 7.5 HP (5.5 kW) 400V 50Hz 2P 213/5T

Rated current	: 10.4 A	Moment of inertia (J)	: 0.0303 kgm²
LRC	: 8.5 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.85 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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