DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - TEFC - Nema Premium Efficiency Derating
Product code	: 12675351

Frame	: 182/4TC	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	: 30.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0066 kgm²
Design	: B		

Output		3 HP (2.2 kW)	2 HP (1.5 kW)	2 HP (1.5 kW)
Poles		2	2	2
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	400 V
Rated current		7.52/3.76 A	6.56/3.28 A	3.23 A
L. R. Amperes		66.2/33.1 A	60.4/30.2 A	32.0 A
LRC		8.8 Code K	9.2 Code L	9.9 Code M
No load current		3.40/1.70 A	3.40/1.70 A	1.80 A
Rated speed		3515 rpm	2920 rpm	2930 rpm
Slip		2.36 %	2.67 %	2.33 %
Rated torque		0.619 kgfm	0.497 kgfm	0.495 kgfm
Locked rotor torque		240 %	300 %	320 %
Breakdown torque		350 %	400 %	450 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level		68 dB(A)	65 dB(A)	65 dB(A)
Locked rotor time		25 s (hot) 45 s (cold)	31 s (hot) 56 s (cold)	28 s (hot) 50 s (cold)
Efficiency (%)	50%	84.0	83.3	82.1
	75%	86.5	85.0	85.3
	100%	86.5	85.9	86.0
Power Factor	Start	0.57	0.59	0.59
	50%	0.70	0.62	0.60
	75%	0.80	0.73	0.71
	100%	0.85	0.81	0.78
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		14.17	14.90	14.78
P2 (0,5;1,0)		10.45	10.99	10.90
P3 (0,25;1,0)		10.22	10.75	10.66
P4 (0,9;0,5)		8.58	9.02	8.95
P5 (0,5;0,5)		4.81	5.05	5.01
P6 (0,5;0,25)		3.55	3.73	3.70
P7 (0,25;0,25)		2.21	2.32	2.30

	Drive end	Non drive end
Bearing type	6206-ZZ	6205-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/01

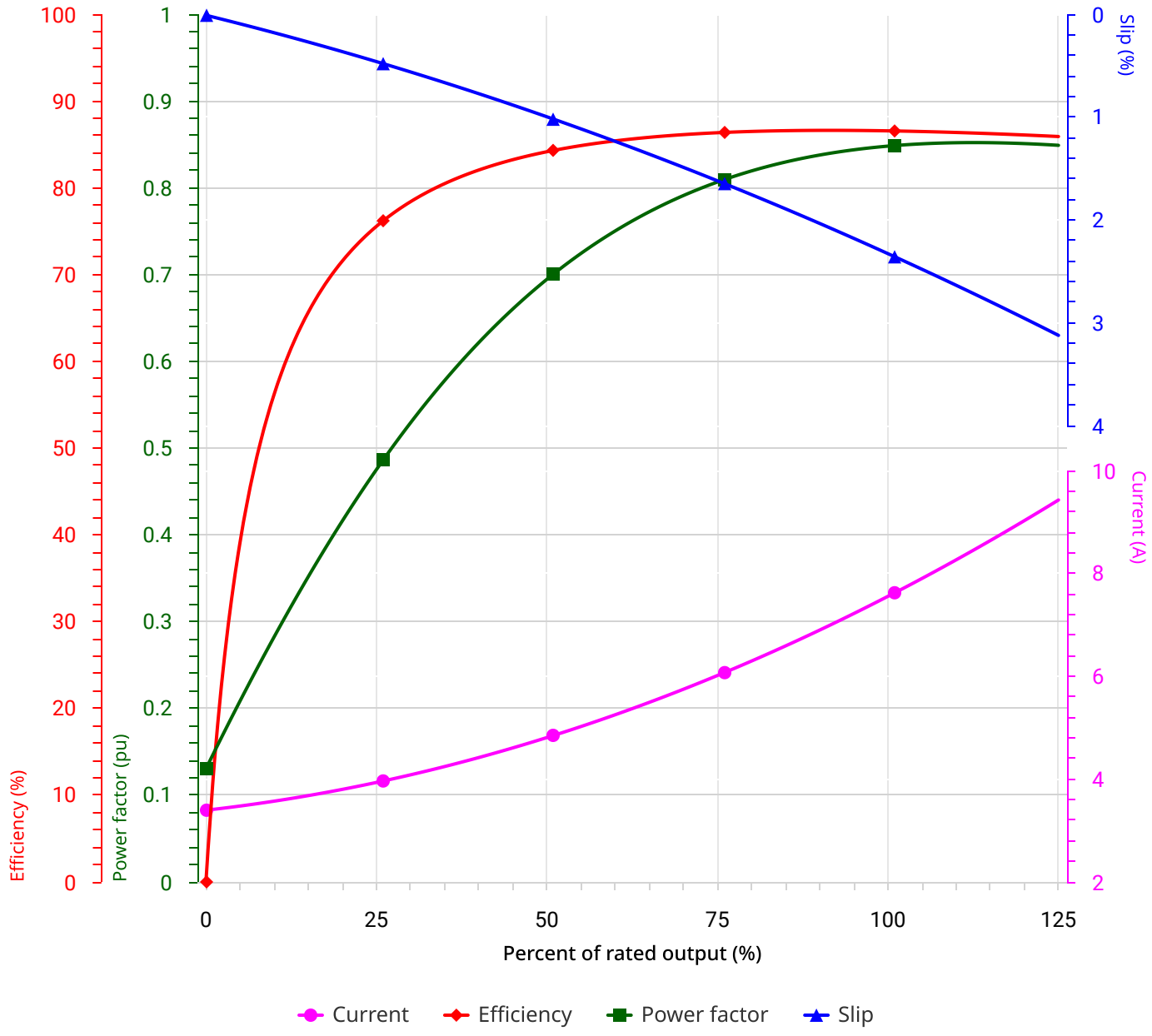
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Performance	: 3 HP (2.2 kW) 208/230/460V 60Hz 2P 182/4TC

Rated current	: 8.12/7.52/3.76 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 8.8 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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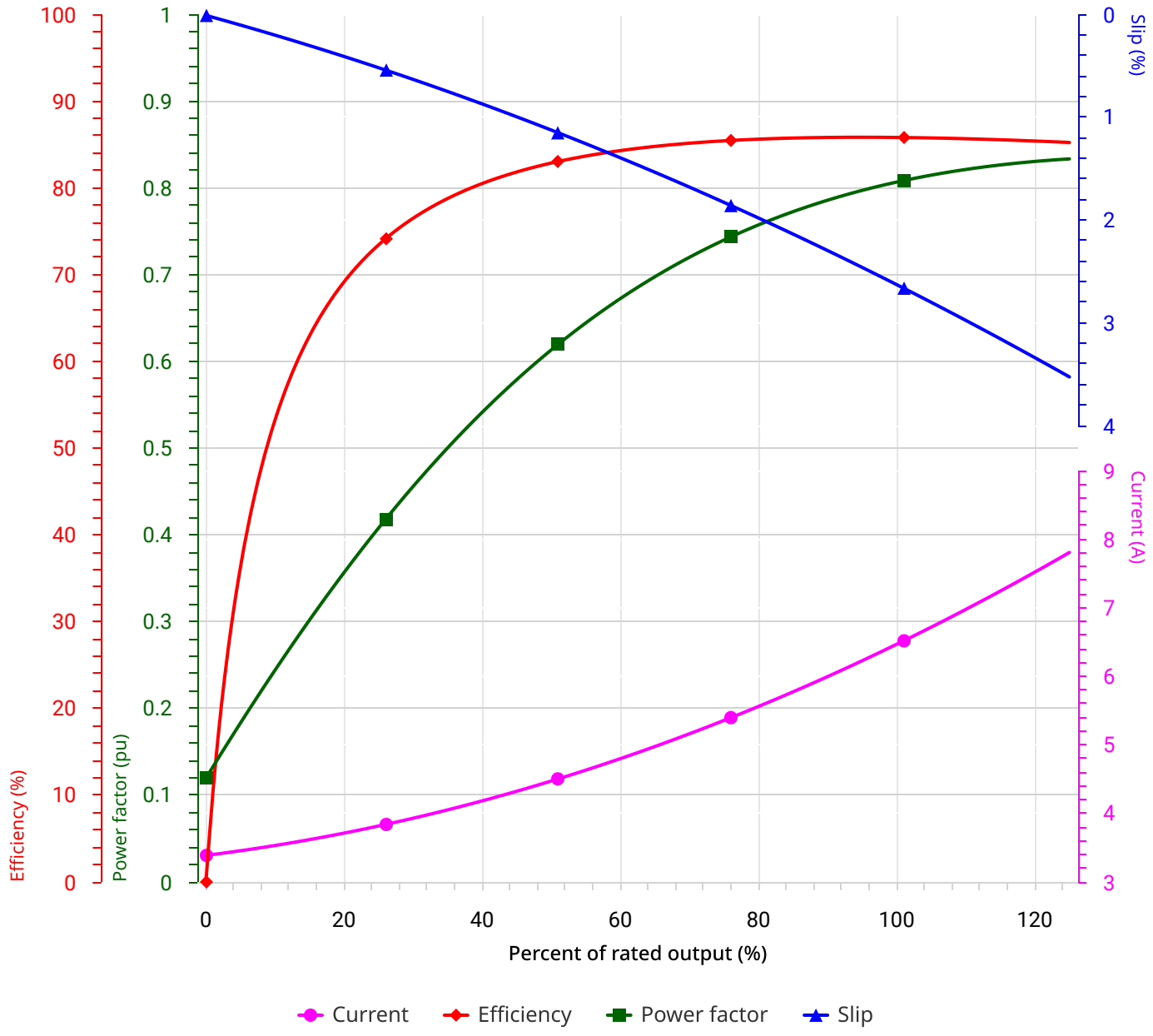
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Customer	:
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Performance	: 2 HP (1.5 kW) 190/380V 50Hz 2P 182/4TC

Rated current	: 6.56/3.28 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 9.2 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 0.497 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B

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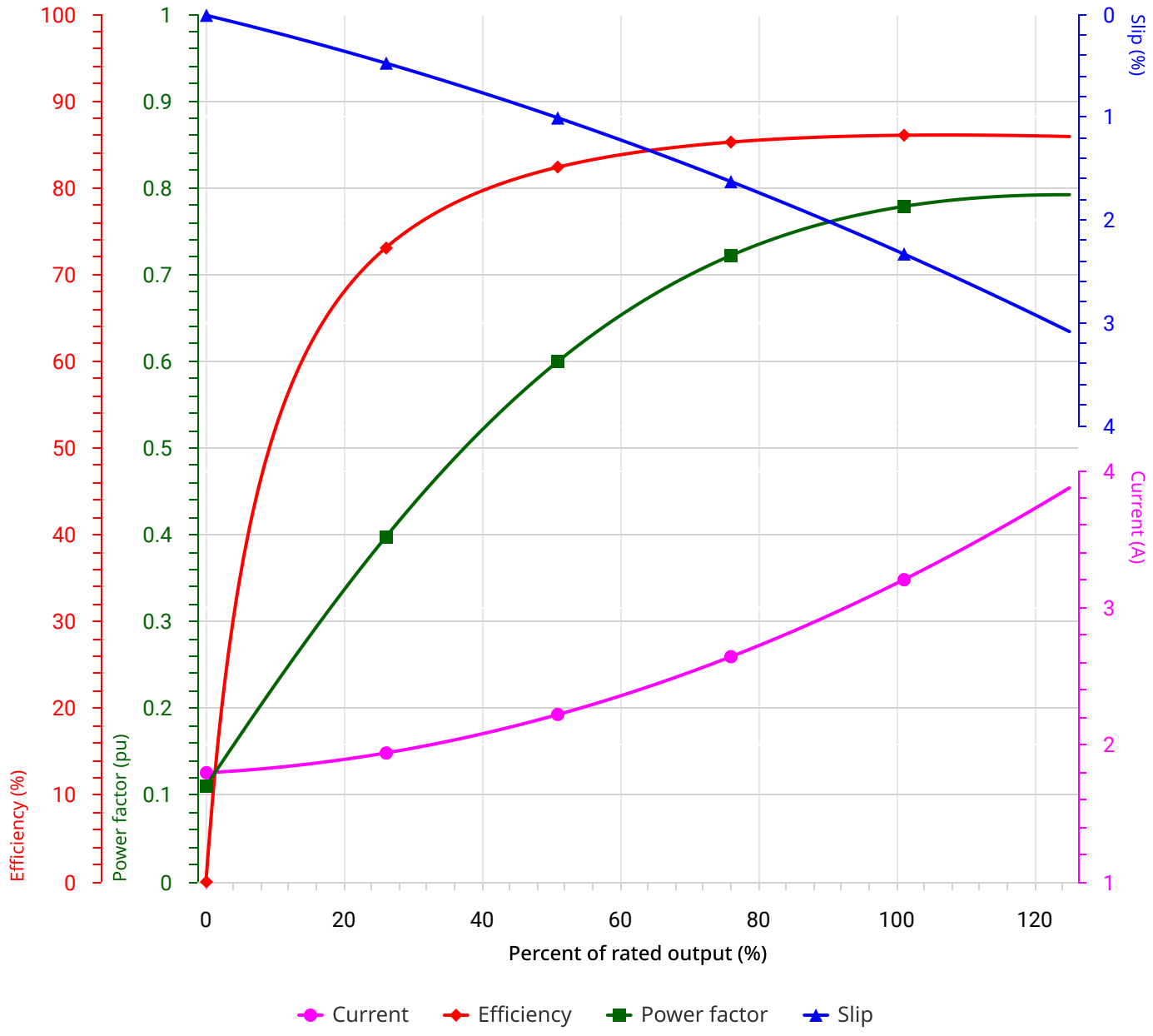
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Three Phase Induction Motor - Squirrel Cage

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Performance	: 2 HP (1.5 kW) 400V 50Hz 2P 182/4TC		
Rated current	: 3.23 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 9.9 Code M	Duty cycle	: Cont.(S1)
Rated torque	: 0.495 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.15
Breakdown torque	: 450 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

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