DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180545

Frame	: 182/4JM	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	: 38.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.013 kgm²
Design	: B		

Output		5 HP (3.7 kW)	4 HP (3 kW)	4 HP (3 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	400 V
Rated current		13.0/6.49 A	12.8/6.42 A	6.33 A
L. R. Amperes		90.9/45.4 A	91.2/45.6 A	48.7 A
LRC		7.0 Code J	7.1 Code J	7.7 Code K
No load current		6.88/3.44 A	6.74/3.37 A	3.77 A
Rated speed		1750 rpm	1440 rpm	1450 rpm
Slip		2.78 %	4.00 %	3.33 %
Rated torque		2.07 kgfm	2.02 kgfm	2.00 kgfm
Locked rotor torque		220 %	210 %	250 %
Breakdown torque		300 %	290 %	330 %
Service factor		1.15	1.00	1.00
Temperature rise		80 K	80 K	80 K
Noise level		56 dB(A)	53 dB(A)	53 dB(A)
Locked rotor time		12 s (hot) 22 s (cold)	13 s (hot) 23 s (cold)	12 s (hot) 22 s (cold)
Efficiency (%)	50%	88.5	87.6	86.4
	75%	89.5	87.9	87.5
	100%	89.5	87.7	87.7
Power Factor	Start	0.54	0.59	0.60
	50%	0.60	0.60	0.55
	75%	0.73	0.74	0.69
	100%	0.8	0.81	0.78
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		14.05	15.14	15.46
P2 (0,5;1,0)		13.15	14.16	14.46
P3 (0,25;1,0)		12.90	13.90	14.19
P4 (0,9;0,5)		6.64	7.15	7.30
P5 (0,5;0,5)		5.13	5.53	5.64
P6 (0,5;0,25)		3.57	3.85	3.93
P7 (0,25;0,25)		2.79	3.00	3.07

	Drive end	Non drive end
Bearing type	6207-ZZ	6205-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

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

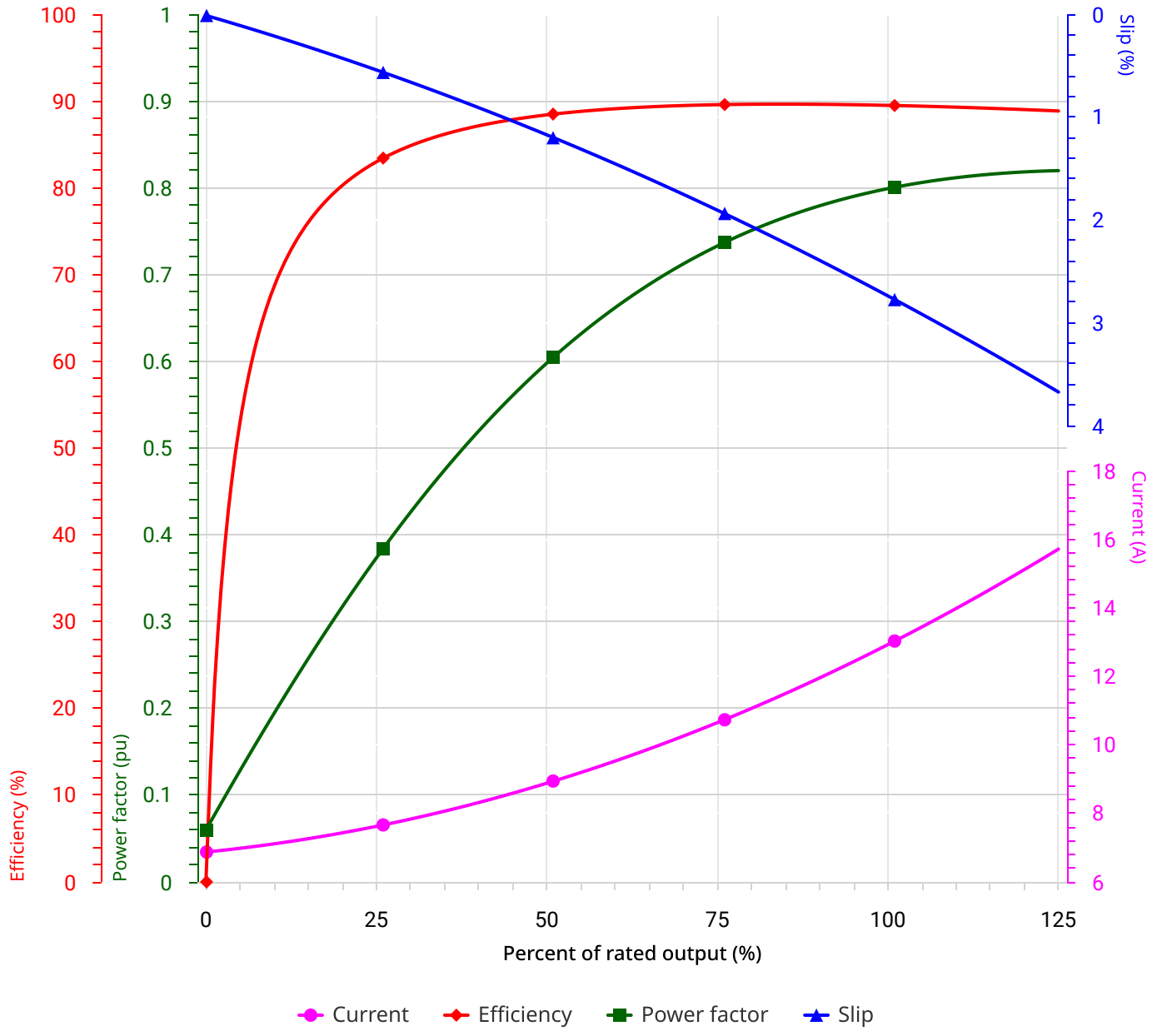
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LOAD PERFORMANCE CURVE

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Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180545



Performance	: 5 HP (3.7 kW) 208/230/460V 60Hz 4P 182/4JM

Rated current	: 14.4/13.0/6.49 A	Moment of inertia (J)	: 0.013 kgm²
LRC	: 7.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.07 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

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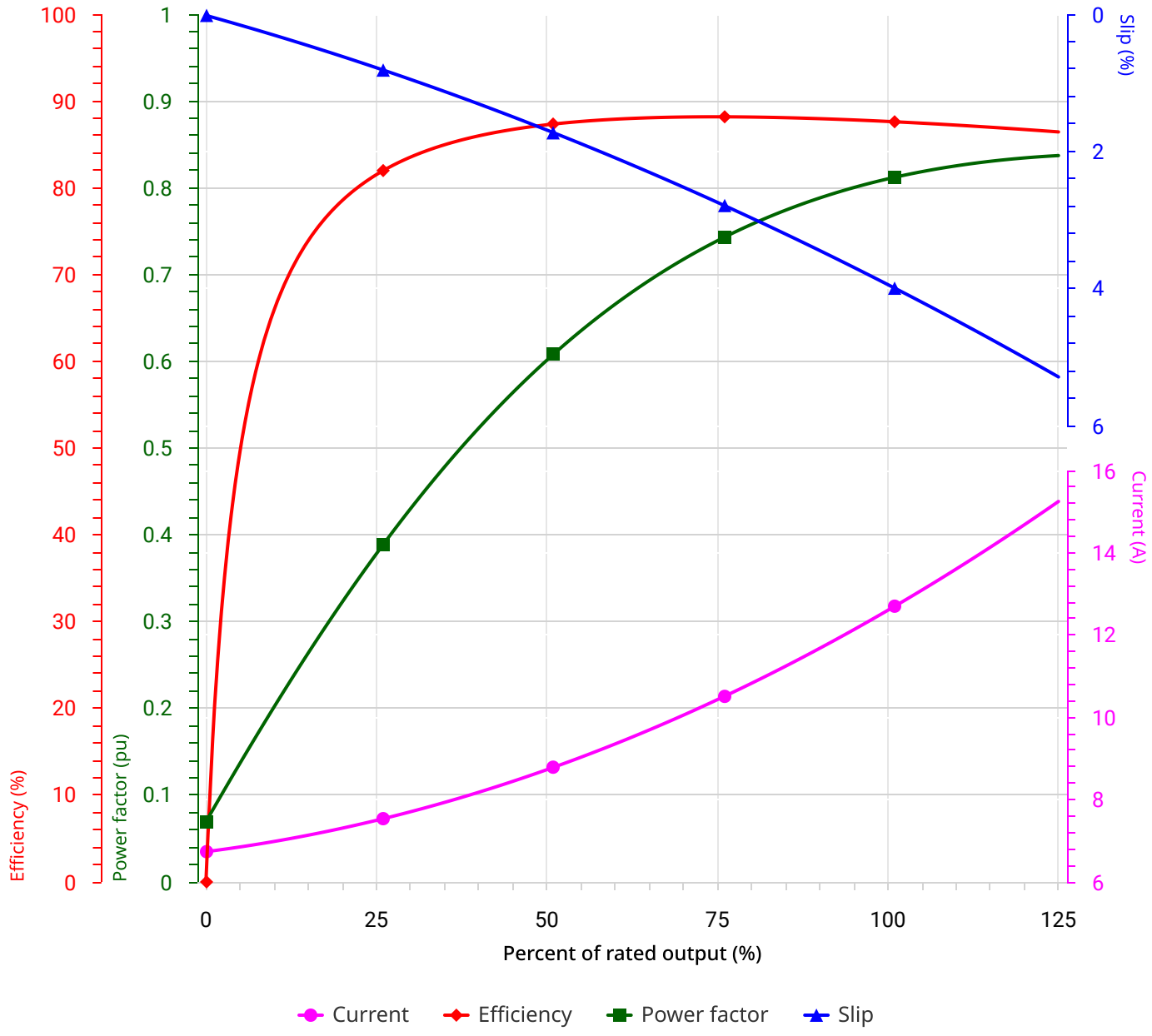
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180545



Performance	: 4 HP (3 kW) 190/380V 50Hz 4P 182/4JM

Rated current	: 12.8/6.42 A	Moment of inertia (J)	: 0.013 kgm²
LRC	: 7.1 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 2.02 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B

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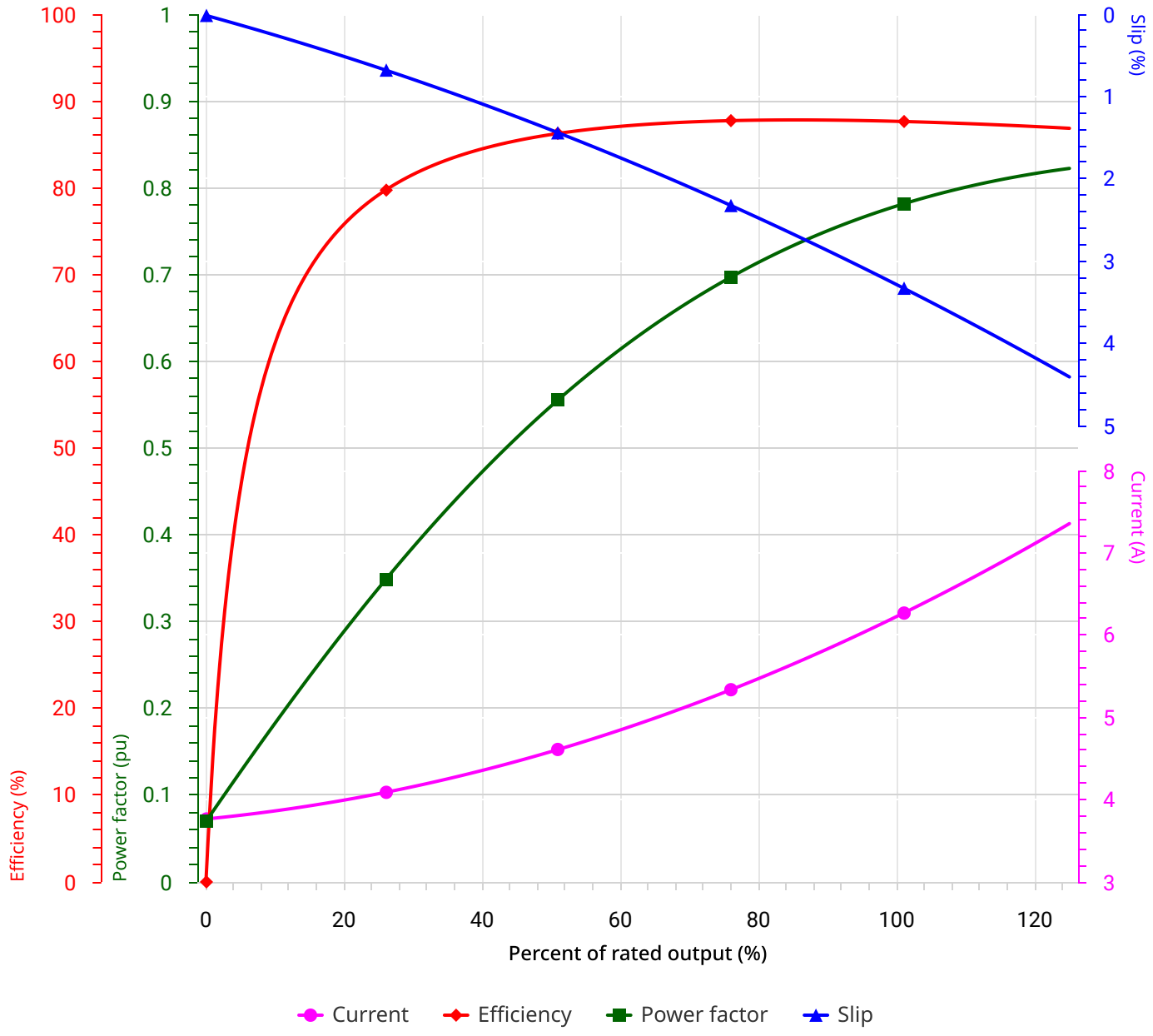
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180545



Performance	: 4 HP (3 kW) 400V 50Hz 4P 182/4JM

Rated current	: 6.33 A	Moment of inertia (J)	: 0.013 kgm²
LRC	: 7.7 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 2.00 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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