DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180542

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	: 41.6 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0169 kgm²
Design	: B		

Output		3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	400 V
Rated current		7.62/3.81 A	9.08/4.54 A	4.40 A
L. R. Amperes		67.1/33.5 A	60.8/30.4 A	33.0 A
LRC		8.8 Code K	6.7 Code H	7.5 Code J
No load current		4.00/2.00 A	3.94/1.97 A	2.11 A
Rated speed		1765 rpm	1455 rpm	1460 rpm
Slip		1.94 %	3.00 %	2.67 %
Rated torque		1.23 kgfm	1.50 kgfm	1.49 kgfm
Locked rotor torque		220 %	180 %	200 %
Breakdown torque		300 %	260 %	290 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level		56 dB(A)	53 dB(A)	53 dB(A)
Locked rotor time		18 s (hot) 32 s (cold)	25 s (hot) 45 s (cold)	23 s (hot) 41 s (cold)
Efficiency (%)	50%	87.5	87.5	87.2
	75%	88.5	87.7	87.9
	100%	89.5	86.7	87.0
Power Factor	Start	0.58	0.58	0.59
	50%	0.61	0.68	0.65
	75%	0.74	0.79	0.77
	100%	0.81	0.85	0.83
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		12.64	13.59	13.74
P2 (0,5;1,0)		10.64	11.44	11.57
P3 (0,25;1,0)		10.17	10.93	11.05
P4 (0,9;0,5)		6.81	7.32	7.40
P5 (0,5;0,5)		4.75	5.11	5.17
P6 (0,5;0,25)		3.49	3.76	3.80
P7 (0,25;0,25)		2.61	2.81	2.84

	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

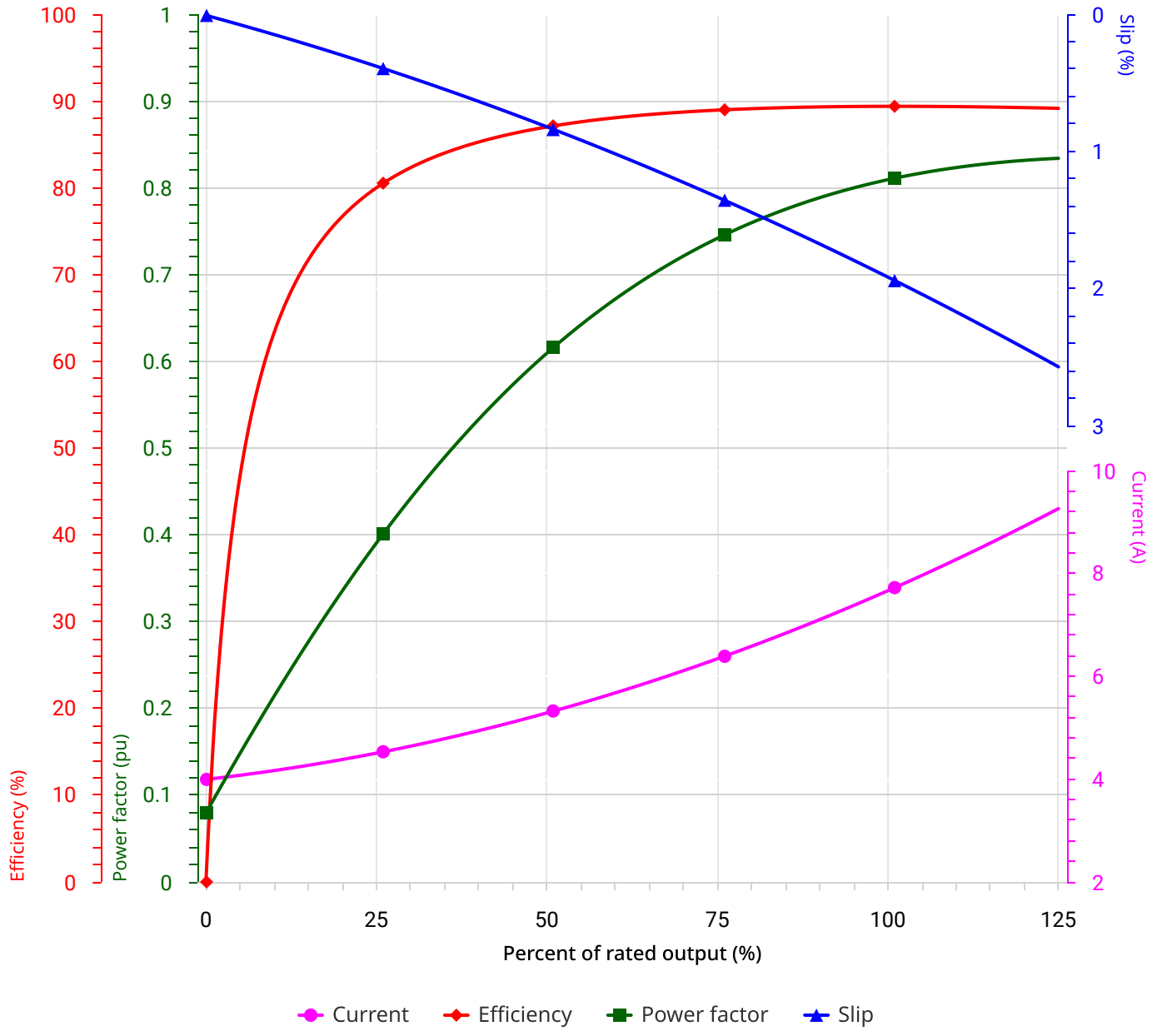
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180542



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

Rated current	: 8.43/7.62/3.81 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 8.8 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.23 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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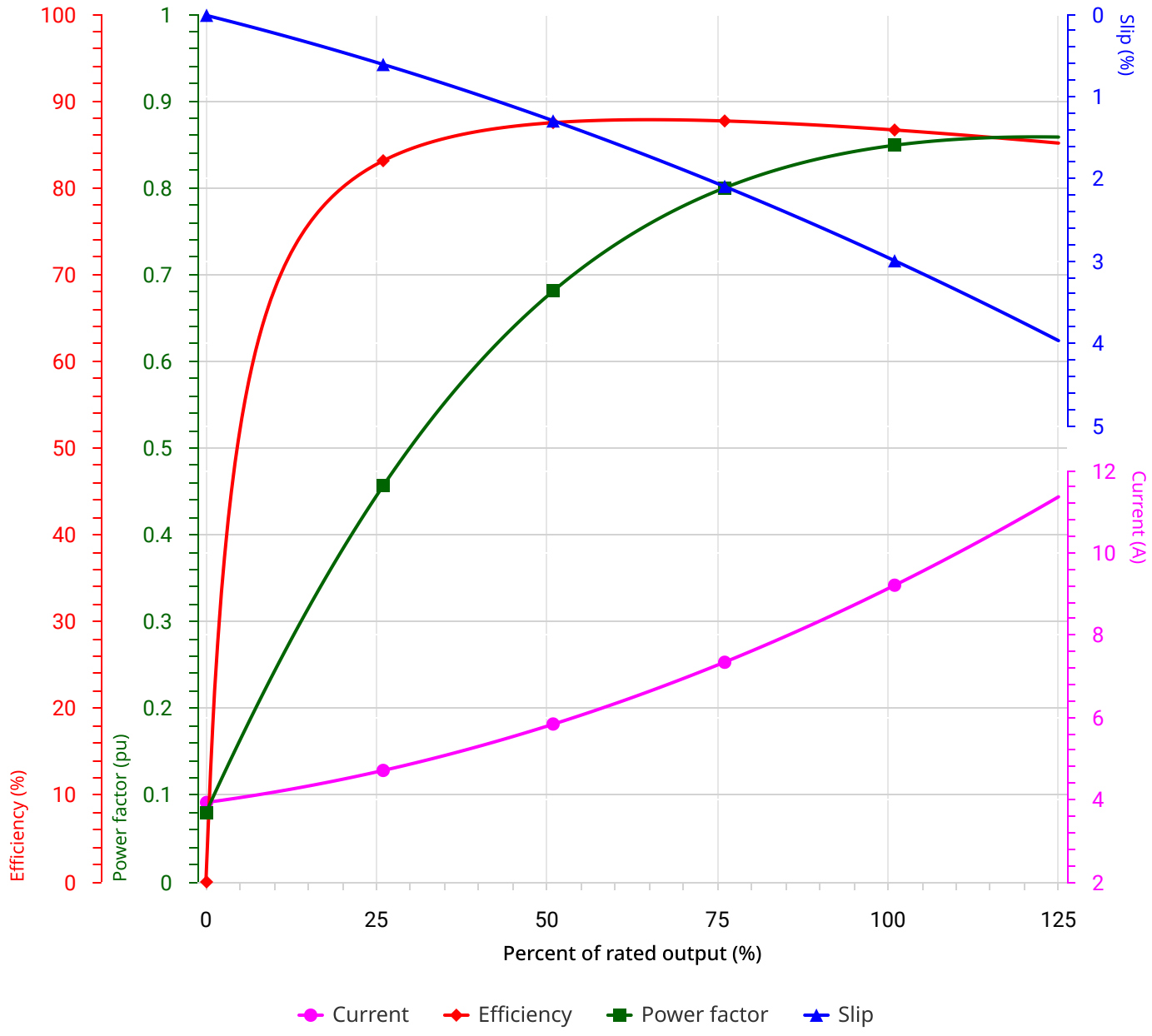
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180542



Performance	: 3 HP (2.2 kW) 190/380V 50Hz 4P 182/4JM

Rated current	: 9.08/4.54 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 6.7 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.50 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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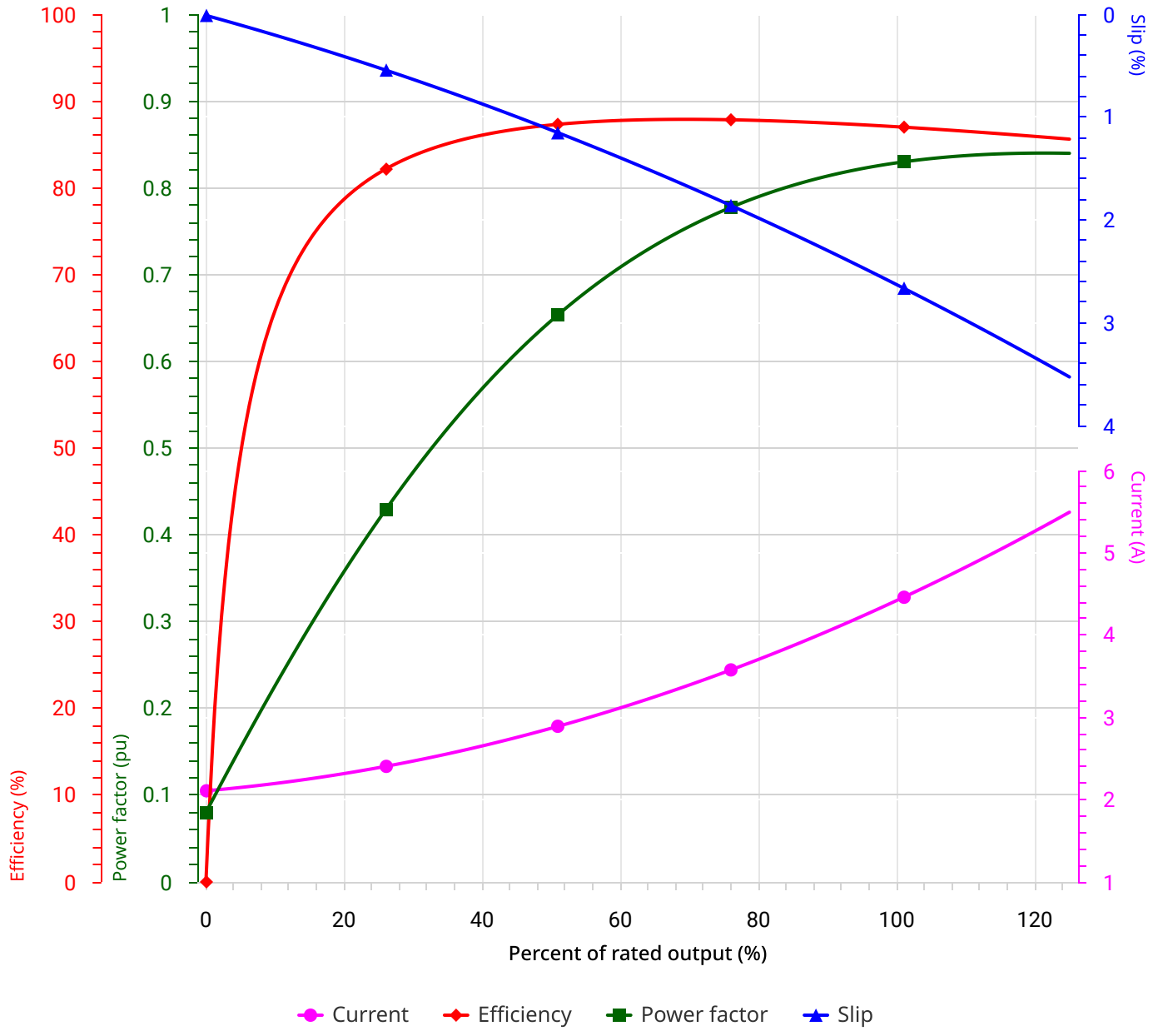
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180542



Performance	: 3 HP (2.2 kW) 400V 50Hz 4P 182/4JM

Rated current	: 4.40 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.5 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.49 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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