DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180568

Frame	: 213/5JM	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	: 59.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0375 kgm²
Design	: B		

Output		7.5 HP (5.5 kW)	5.5 HP (4 kW)	5.5 HP (4 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	220/415 V
Rated current		17.9/8.96 A	16.7/8.37 A	15.1/7.98 A
L. R. Amperes		129/64.5 A	134/67.0 A	138/73.4 A
LRC		7.2 Code H	8.0 Code K	9.2 Code L
No load current		8.20/4.10 A	8.20/4.10 A	8.87/4.70 A
Rated speed		1770 rpm	1475 rpm	1480 rpm
Slip		1.67 %	1.67 %	1.33 %
Rated torque		3.08 kgfm	2.71 kgfm	2.70 kgfm
Locked rotor torque		230 %	230 %	260 %
Breakdown torque		300 %	330 %	370 %
Service factor		1.15	1.00	1.00
Temperature rise		80 K	80 K	80 K
Noise level		60 dB(A)	57 dB(A)	57 dB(A)
Locked rotor time		18 s (hot) 32 s (cold)	16 s (hot) 29 s (cold)	14 s (hot) 25 s (cold)
Efficiency (%)	50%	90.2	89.5	88.9
	75%	91.0	90.0	90.1
	100%	91.7	88.6	89.4
Power Factor	Start	0.54	0.56	0.58
	50%	0.68	0.64	0.56
	75%	0.78	0.76	0.68
	100%	0.84	0.82	0.78
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		8.75	12.44	11.46
P2 (0,5;1,0)		7.41	10.53	9.70
P3 (0,25;1,0)		6.90	9.80	9.03
P4 (0,9;0,5)		4.48	6.37	5.87
P5 (0,5;0,5)		3.10	4.41	4.06
P6 (0,5;0,25)		2.15	3.06	2.82
P7 (0,25;0,25)		1.56	2.21	2.04

	Drive end	Non drive end
Bearing type	6209-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/12

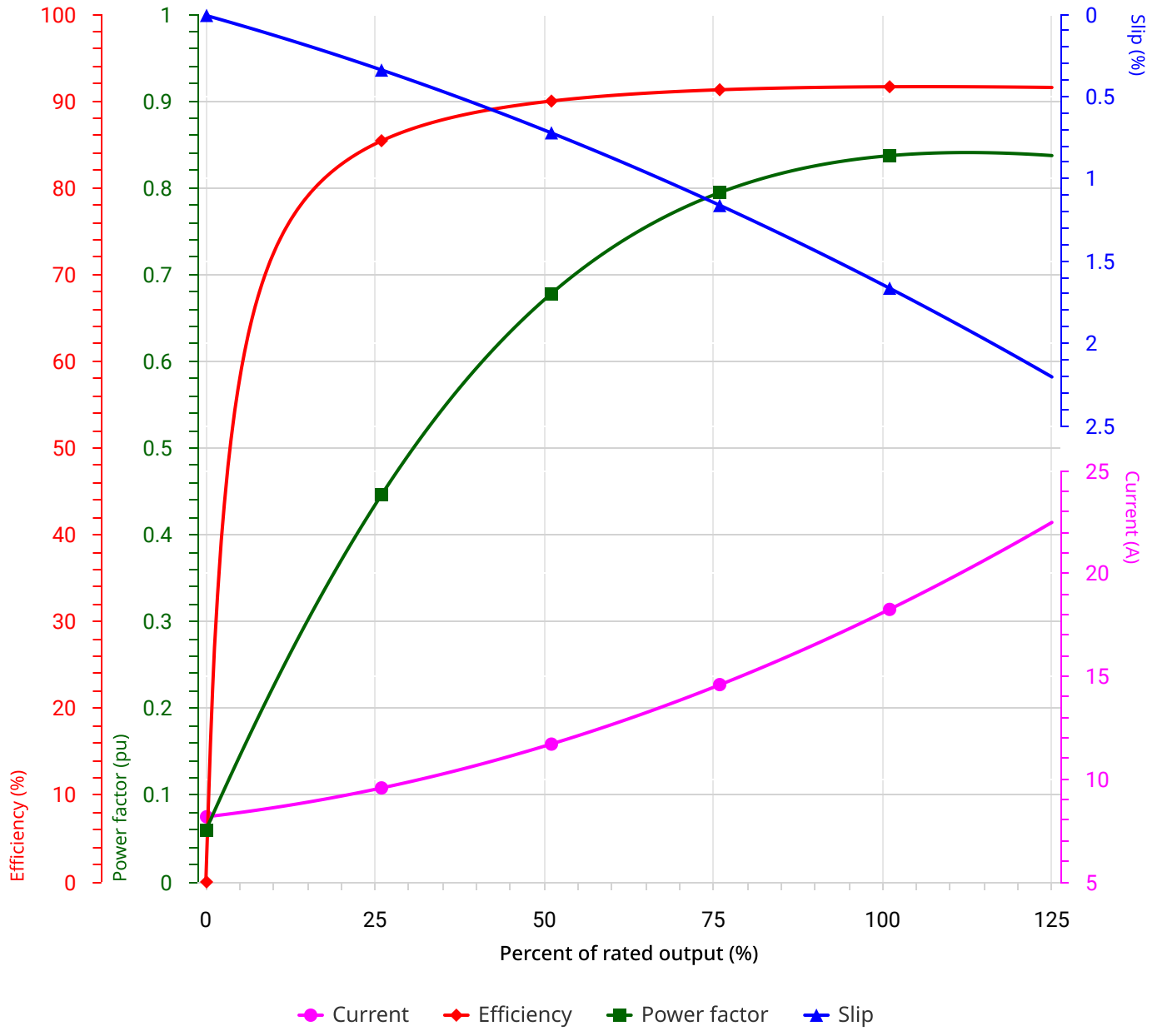
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LOAD PERFORMANCE CURVE

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Customer	:
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Product code	: 13180568



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 4P 213/5JM

Rated current	: 20.1/17.9/8.96 A	Moment of inertia (J)	: 0.0375 kgm²
LRC	: 7.2 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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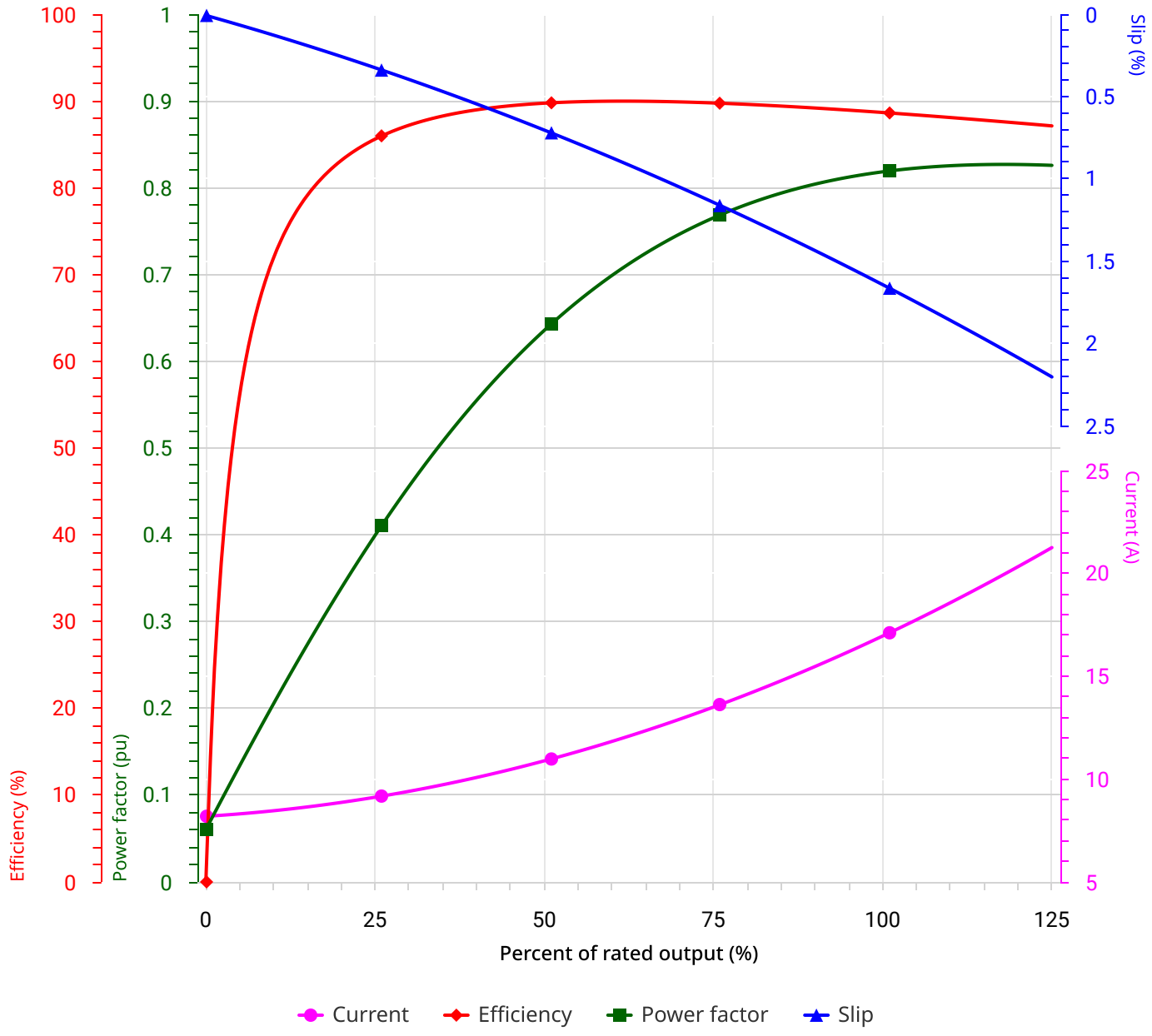
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180568



Performance	: 5.5 HP (4 kW) 190/380V 50Hz 4P 213/5JM

Rated current	: 16.7/8.37 A	Moment of inertia (J)	: 0.0375 kgm²
LRC	: 8.0 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 2.71 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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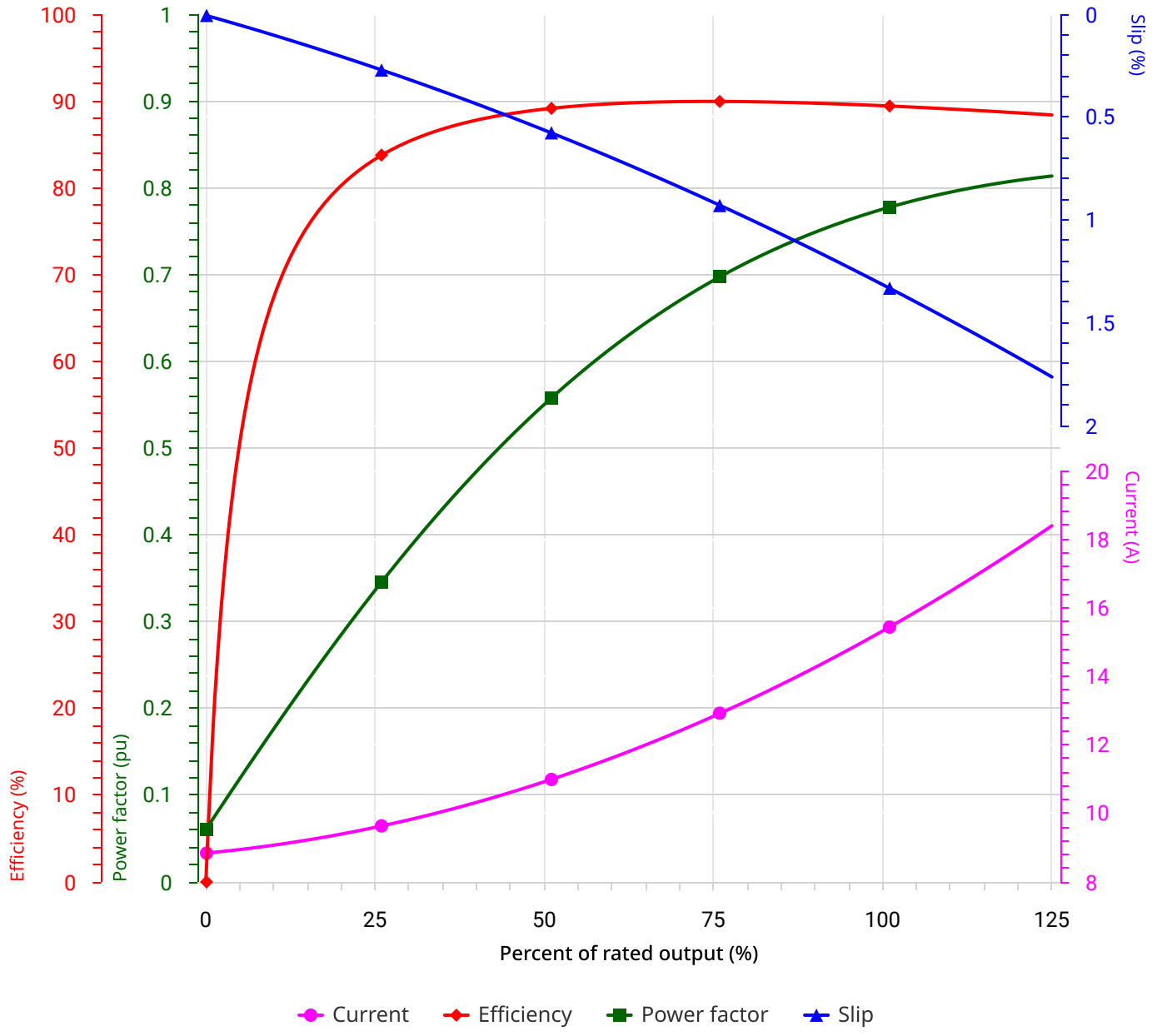
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180568



Performance	: 5.5 HP (4 kW) 220/415V 50Hz 4P 213/5JM

Rated current	: 15.1/7.98 A	Moment of inertia (J)	: 0.0375 kgm²
LRC	: 9.2 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 2.70 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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