DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13181453

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	: 70.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0267 kgm²
Design	: A		

Output		15 HP (11 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)
Poles		2	2	2	2
Frequency		60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		208-230/460 V	190/380 V	220 V	220/415 V
Rated current		37.6-34.1/17.0 A	28.8/14.4 A	24.8 A	26.3/13.9 A
L. R. Amperes		280/140 A	250/125 A	216 A	255/135 A
LRC		8.2 Code J	8.7 Code K	8.7 Code K	9.7 Code L
No load current		11.2/5.60 A	11.0/5.50 A	9.50 A	12.2/6.45 A
Rated speed		3535 rpm	2950 rpm	2950 rpm	2955 rpm
Slip		1.81 %	1.67 %	1.67 %	1.50 %
Rated torque		3.08 kgfm	2.46 kgfm	2.00 kgfm	2.46 kgfm
Locked rotor torque		280 %	320 %	320 %	380 %
Breakdown torque		330 %	370 %	370 %	450 %
Service factor		1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K
Noise level		70 dB(A)	67 dB(A)	67.0 dB(A)	67 dB(A)
Locked rotor time		10 s (hot) 18 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	13 s (hot) 23 s (cold)
Efficiency (%)	50%	90.2	90.5	90.5	89.6
	75%	91.0	91.4	91.4	91.2
	100%	91.0	91.1	91.1	91.3
Power Factor	Start	0.54	0.57	0.57	0.57
	50%	0.76	0.71	0.71	0.62
	75%	0.85	0.82	0.82	0.75
	100%	0.89	0.87	0.87	0.82
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		8.54	9.00	9.00	9.02
P2 (0,5;1,0)		6.61	6.97	6.97	6.98
P3 (0,25;1,0)		6.08	6.41	6.41	6.42
P4 (0,9;0,5)		5.02	5.29	5.29	5.30
P5 (0,5;0,5)		3.14	3.31	3.31	3.31
P6 (0,5;0,25)		2.35	2.47	2.47	2.48
P7 (0,25;0,25)		1.51	1.60	1.60	1.60

	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
				2026/11/14

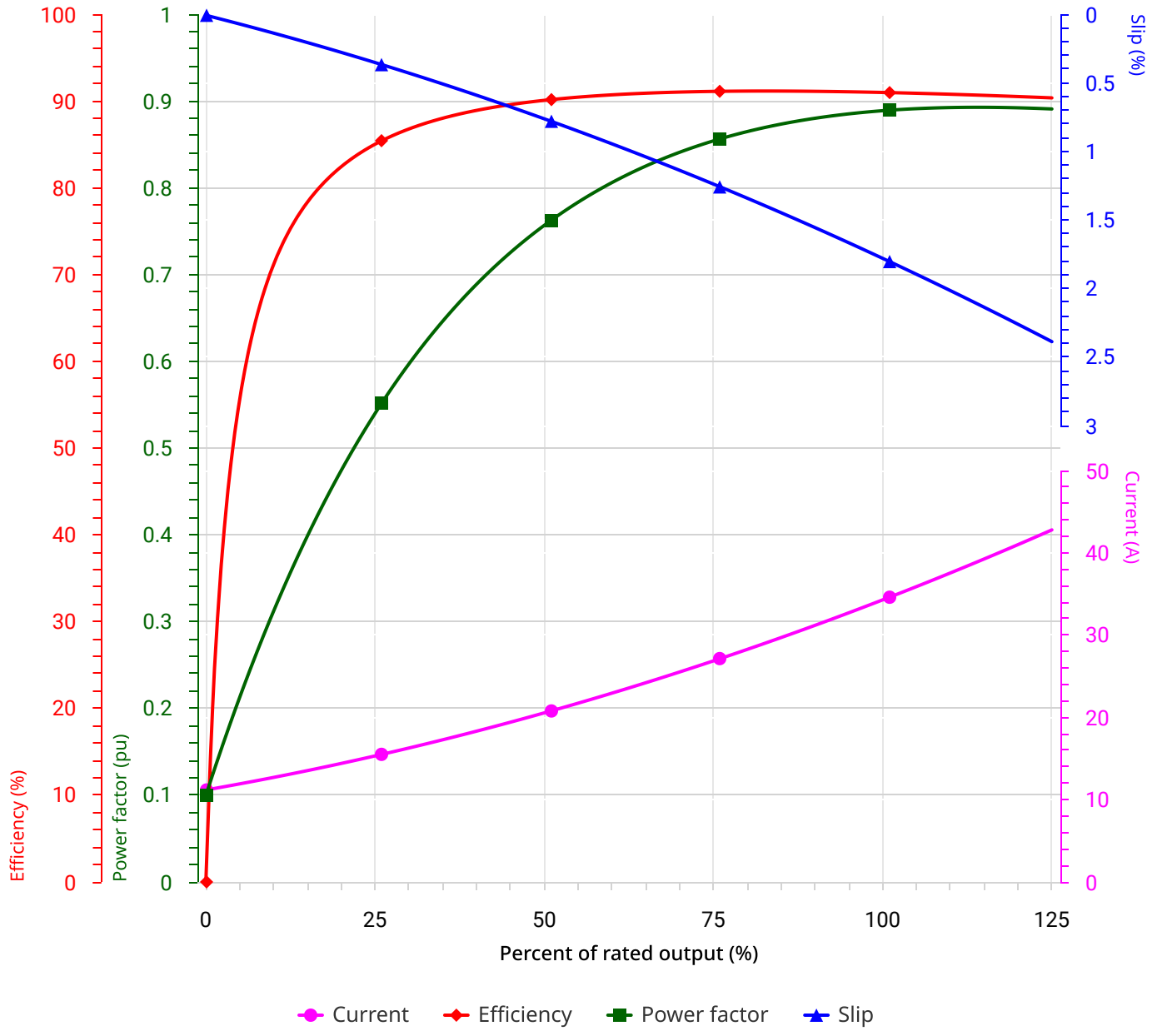
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13181453



Performance	: 15 HP (11 kW) 208/230/460V 60Hz 2P 213/5JM

Rated current	: 37.6/34.1/17.0 A	Moment of inertia (J)	: 0.0267 kgm²
LRC	: 8.2 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3535 rpm	Design	: A

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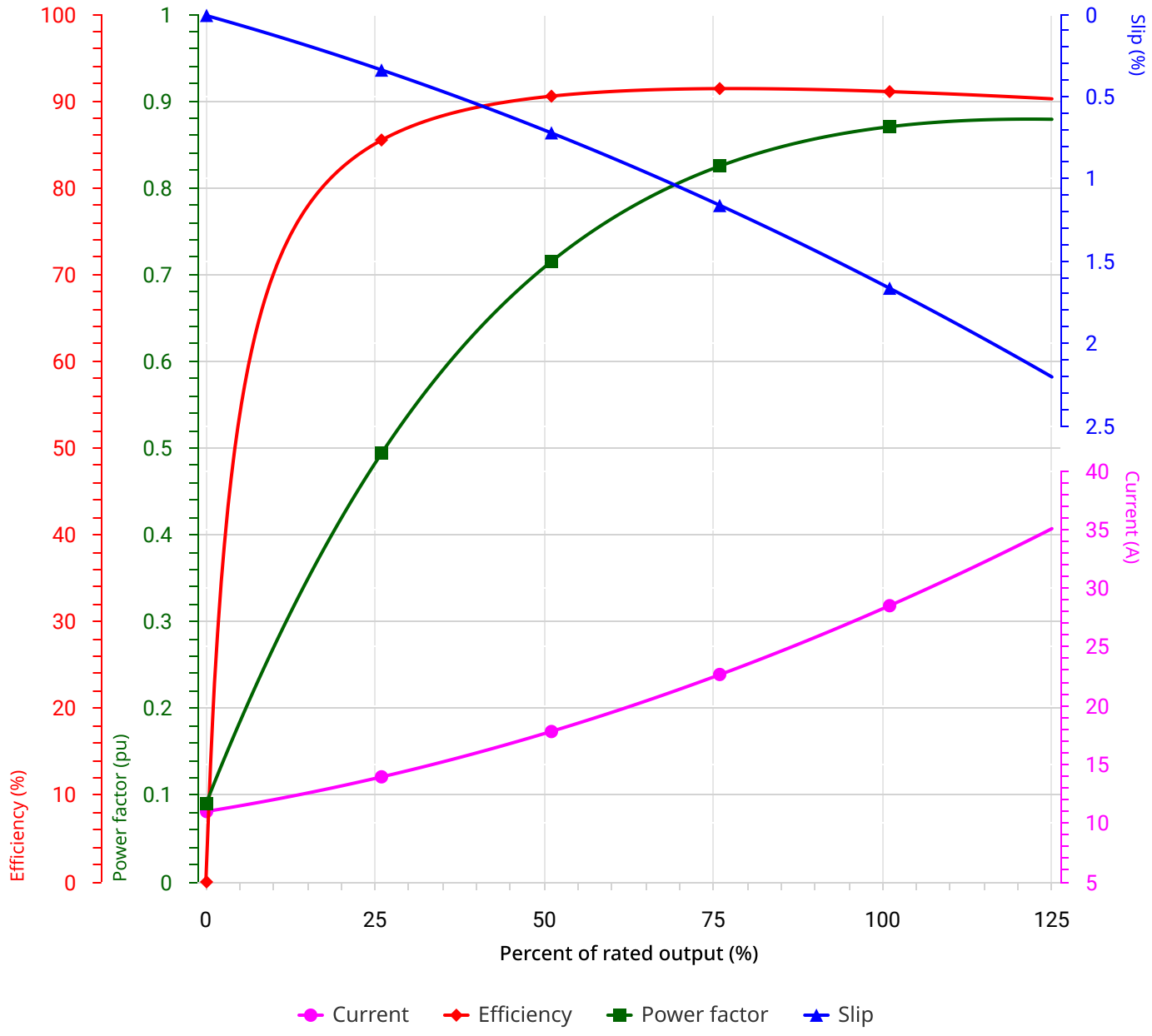
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13181453



Performance	: 10 HP (7.5 kW) 190/380V 50Hz 2P 213/5JM

Rated current	: 28.8/14.4 A	Moment of inertia (J)	: 0.0267 kgm²
LRC	: 8.7 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: A

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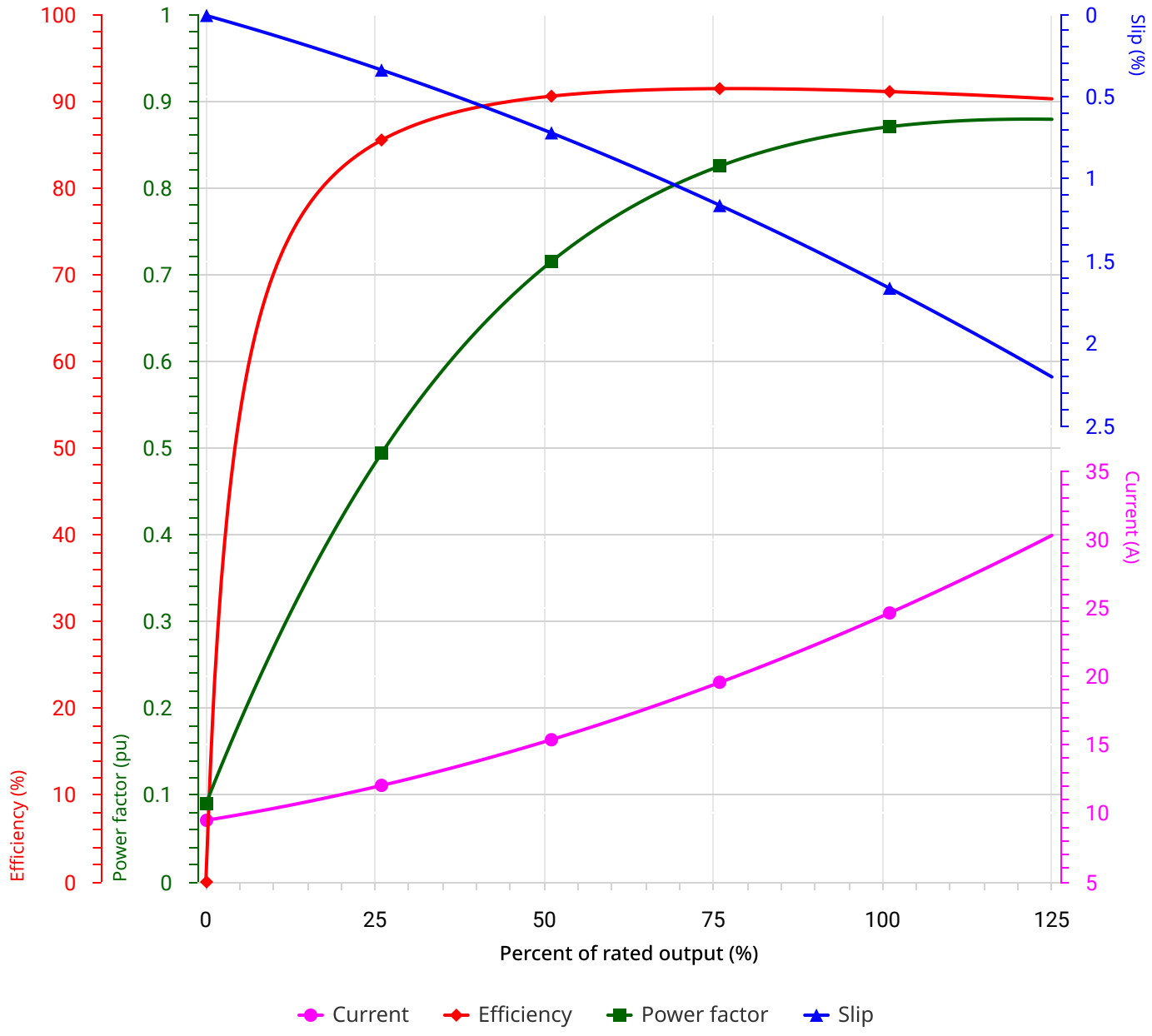
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13181453



Performance	: 10 HP (7.5 kW) 220V 50Hz 2P 213/5JM

Rated current	: 24.8 A	Moment of inertia (J)	: 0.0267 kgm²
LRC	: 8.7 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 2.00 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: 00002

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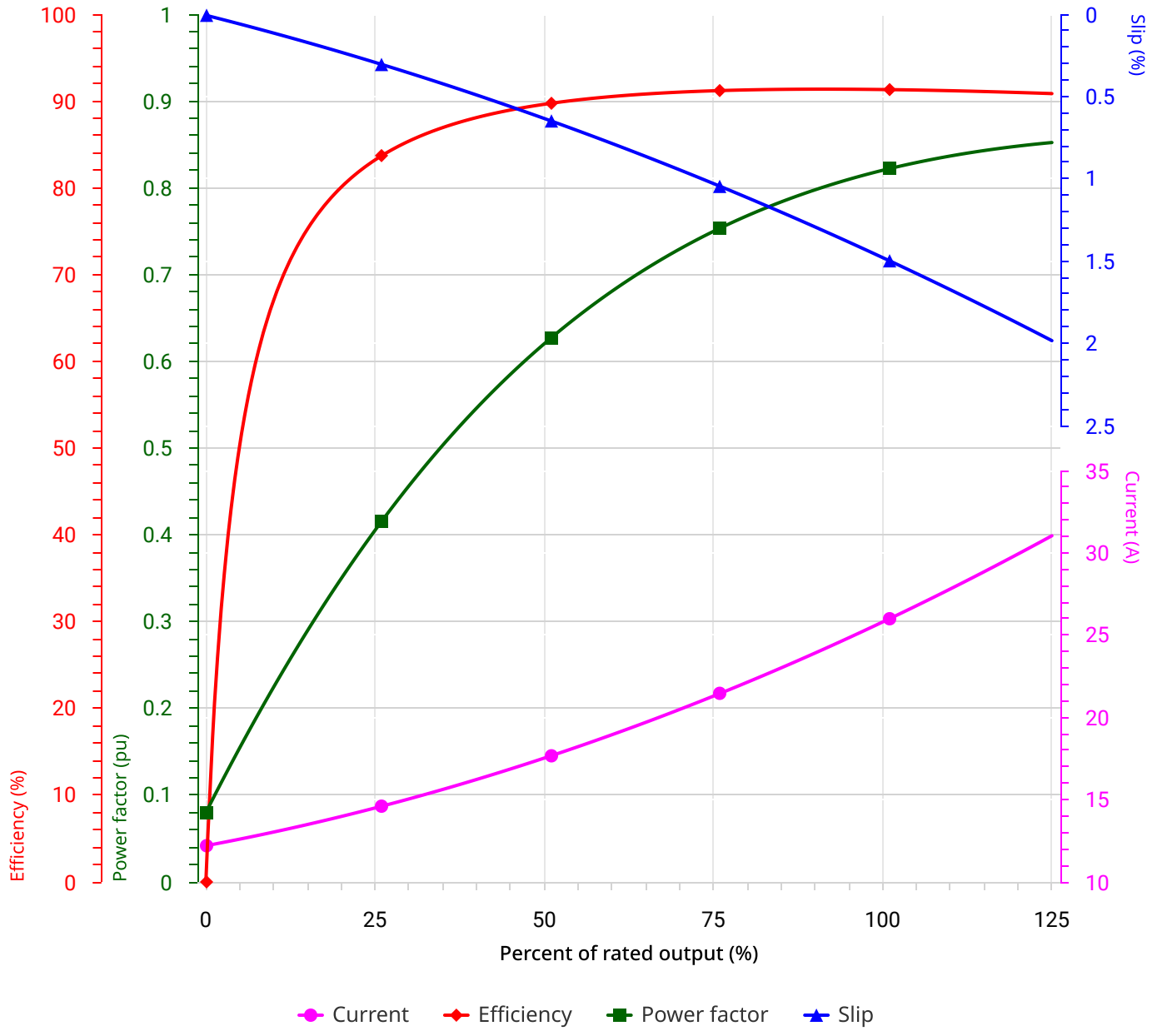
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13181453



Performance	: 10 HP (7.5 kW) 220/415V 50Hz 2P 213/5JM

Rated current	: 26.3/13.9 A	Moment of inertia (J)	: 0.0267 kgm²
LRC	: 9.7 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 380 %	Service factor	: 1.15
Breakdown torque	: 450 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: A

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