DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180573

Frame	: 254/6JM	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	: 103 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0904 kgm²
Design	: B		

Output		15 HP (11 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)
Poles		4	4	4	4
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		40.3-36.4/18.2 A	30.8/15.4 A	26.6 A	28.3/15.0 A
L. R. Amperes		237/118 A	228/114 A	197 A	238/126 A
LRC		6.5 Code G	7.4 Code J	7.4 Code J	8.4 Code L
No load current		17.3/8.65 A	16.1/8.05 A	13.9 A	17.3/9.19 A
Rated speed		1770 rpm	1480 rpm	1480 rpm	1485 rpm
Slip		1.67 %	1.33 %	1.33 %	1.00 %
Rated torque		6.15 kgfm	4.90 kgfm	5.00 kgfm	4.89 kgfm
Locked rotor torque		250 %	260 %	260 %	310 %
Breakdown torque		300 %	350 %	350 %	420 %
Service factor		1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K
Noise level		68 dB(A)	65 dB(A)	65.0 dB(A)	65 dB(A)
Locked rotor time		19 s (hot) 34 s (cold)	25 s (hot) 45 s (cold)	25 s (hot) 45 s (cold)	20 s (hot) 36 s (cold)
Efficiency (%)	50%	91.0	91.6	91.6	90.6
	75%	92.4	92.6	92.6	92.2
	100%	92.4	92.4	92.4	92.5
Power Factor	Start	0.50	0.52	0.52	0.53
	50%	0.64	0.60	0.60	0.53
	75%	0.76	0.73	0.73	0.66
	100%	0.82	0.8	0.8	0.75
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		9.49	9.28	9.28	9.34
P2 (0,5;1,0)		8.45	8.26	8.26	8.32
P3 (0,25;1,0)		8.10	7.92	7.92	7.98
P4 (0,9;0,5)		4.45	4.35	4.35	4.38
P5 (0,5;0,5)		3.27	3.19	3.19	3.22
P6 (0,5;0,25)		2.14	2.09	2.09	2.11
P7 (0,25;0,25)		1.61	1.57	1.57	1.58

	Drive end	Non drive end
Bearing type	6309-Z-C3	6208-Z-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	8 g
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/14

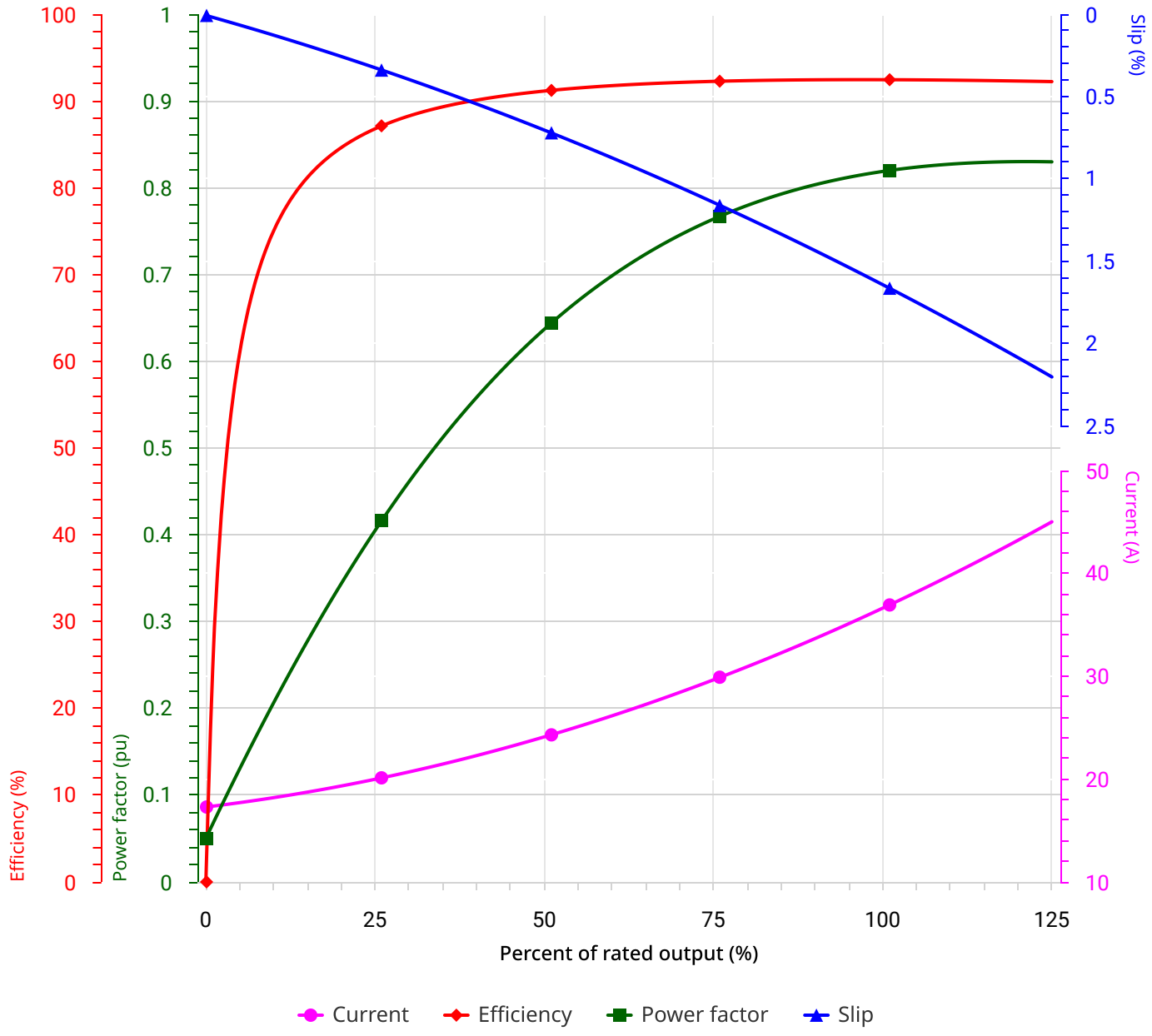
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180573



Performance	: 15 HP (11 kW) 208/230/460V 60Hz 4P 254/6JM

Rated current	: 40.3/36.4/18.2 A	Moment of inertia (J)	: 0.0904 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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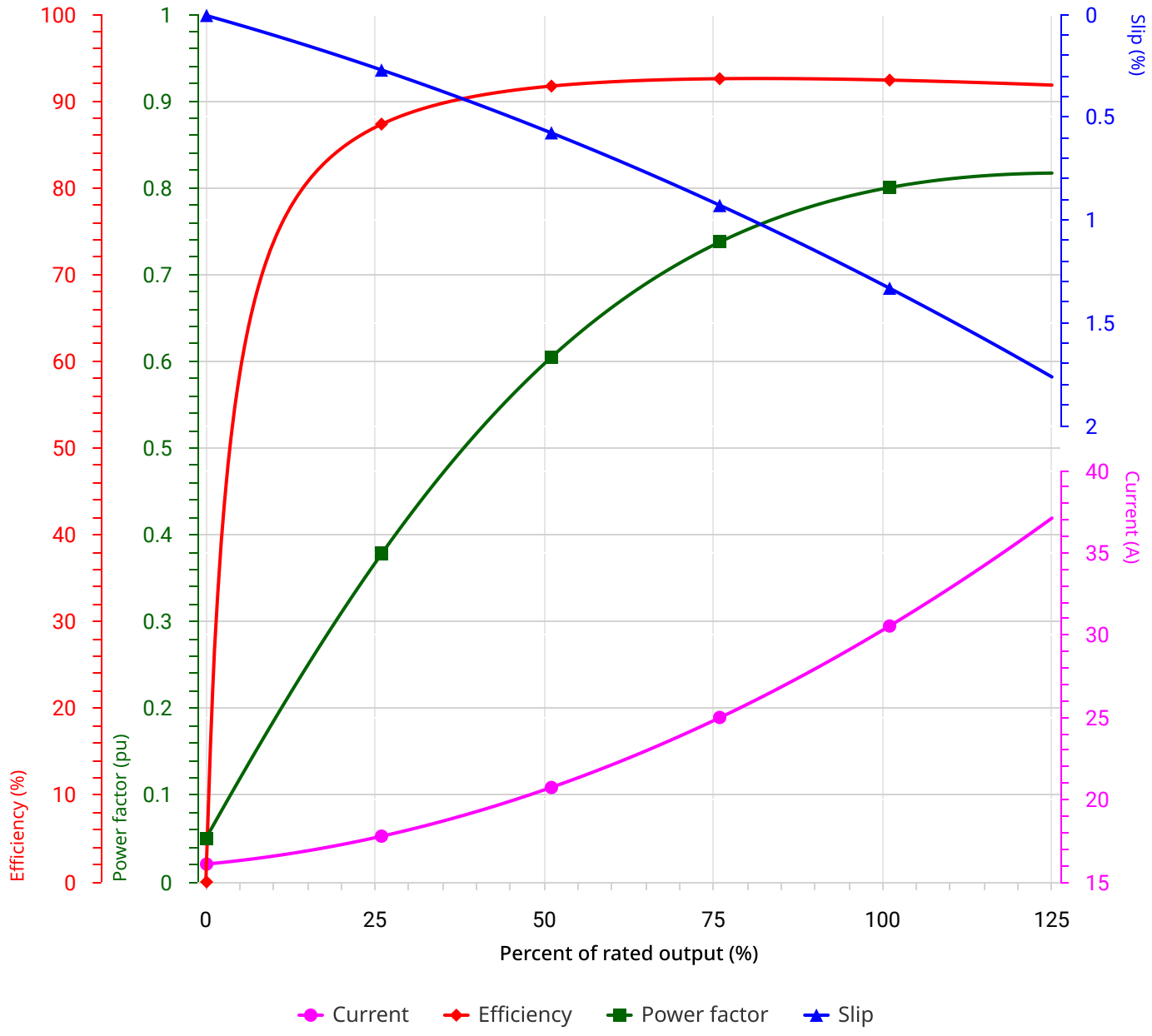
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180573



Performance	: 10 HP (7.5 kW) 190/380V 50Hz 4P 254/6JM

Rated current	: 30.8/15.4 A	Moment of inertia (J)	: 0.0904 kgm²
LRC	: 7.4 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 4.90 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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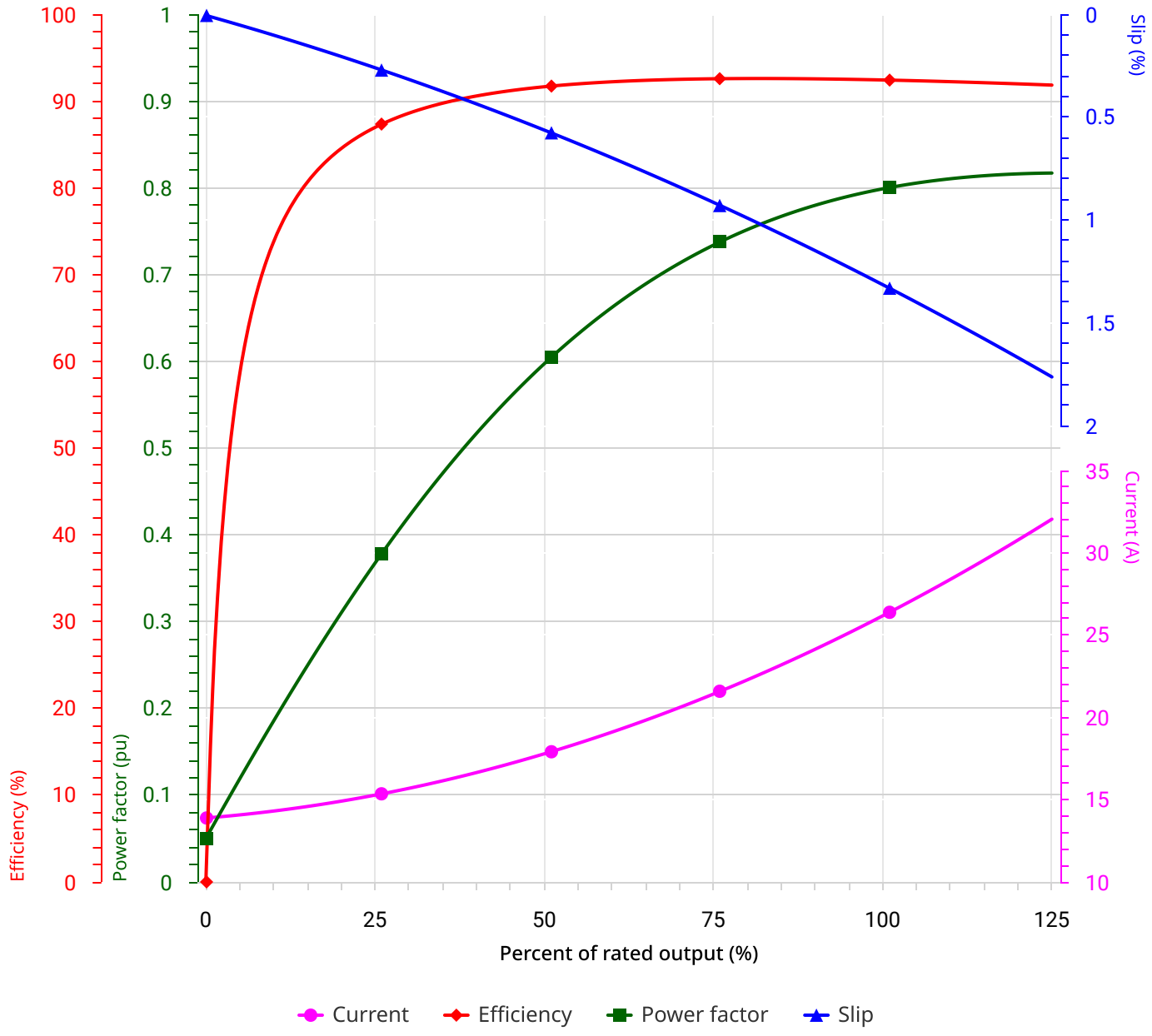
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180573



Performance	: 10 HP (7.5 kW) 220V 50Hz 4P 254/6JM

Rated current	: 26.6 A	Moment of inertia (J)	: 0.0904 kgm²
LRC	: 7.4 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 5.00 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: 00002

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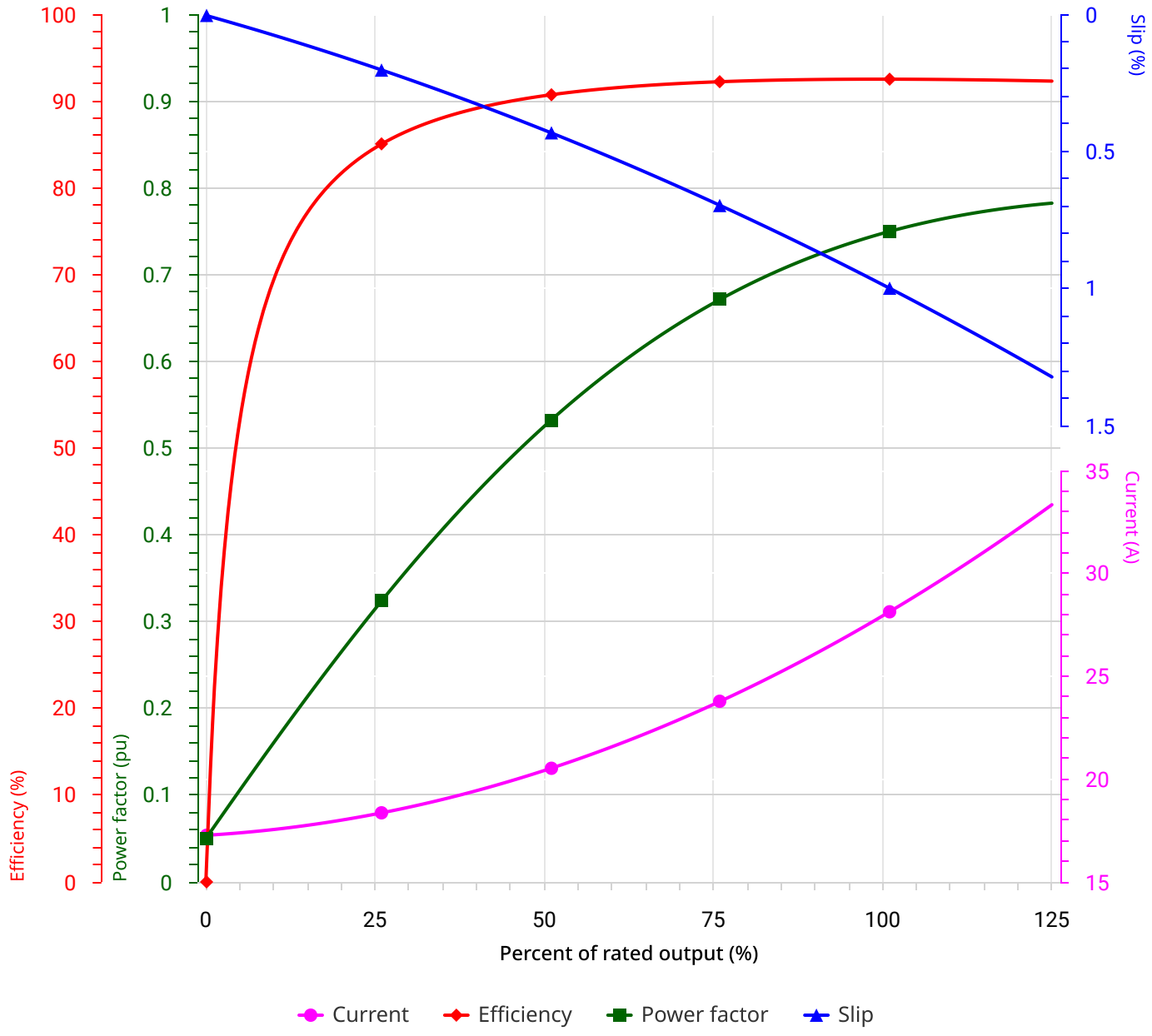
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13180573



Performance	: 10 HP (7.5 kW) 220/415V 50Hz 4P 254/6JM

Rated current	: 28.3/15.0 A	Moment of inertia (J)	: 0.0904 kgm²
LRC	: 8.4 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 4.89 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.15
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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