DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13373887

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	: 107 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0514 kgm²
Design	: B		

Output		20 HP (15 kW)	15 HP (11 kW)	15 HP (11 kW)
Poles		2	2	2
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	400 V
Rated current		45.4/22.7 A	40.8/20.4 A	19.5 A
L. R. Amperes		300/150 A	302/151 A	158 A
LRC		6.6 Code G	7.4 Code H	8.1 Code J
No load current		13.8/6.88 A	13.6/6.79 A	7.26 A
Rated speed		3515 rpm	2925 rpm	2935 rpm
Slip		2.36 %	2.50 %	2.17 %
Rated torque		4.13 kgfm	3.72 kgfm	3.71 kgfm
Locked rotor torque		200 %	210 %	240 %
Breakdown torque		290 %	310 %	340 %
Service factor		1.15	1.00	1.00
Temperature rise		80 K	95 K	80 K
Noise level		75 dB(A)	72 dB(A)	72 dB(A)
Locked rotor time		12 s (hot) 22 s (cold)	19 s (hot) 34 s (cold)	18 s (hot) 32 s (cold)
Efficiency (%)	50%	90.0	91.6	91.5
	75%	91.0	91.7	92.0
	100%	91.0	91.2	91.4
Power Factor	Start	0.49	0.52	0.53
	50%	0.81	0.79	0.75
	75%	0.88	0.87	0.85
	100%	0.91	0.9	0.89
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		8.83	8.31	8.71
P2 (0,5;1,0)		7.32	6.90	7.22
P3 (0,25;1,0)		6.67	6.29	6.58
P4 (0,9;0,5)		4.48	4.22	4.42
P5 (0,5;0,5)		2.93	2.76	2.89
P6 (0,5;0,25)		1.93	1.82	1.91
P7 (0,25;0,25)		1.31	1.24	1.29

	Drive end	Non drive end
Bearing type	6309-Z-C3	6208-Z-C3
Lubrication interval	15797 h	20000 h
Lubricant amount	13 g	8 g
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/06

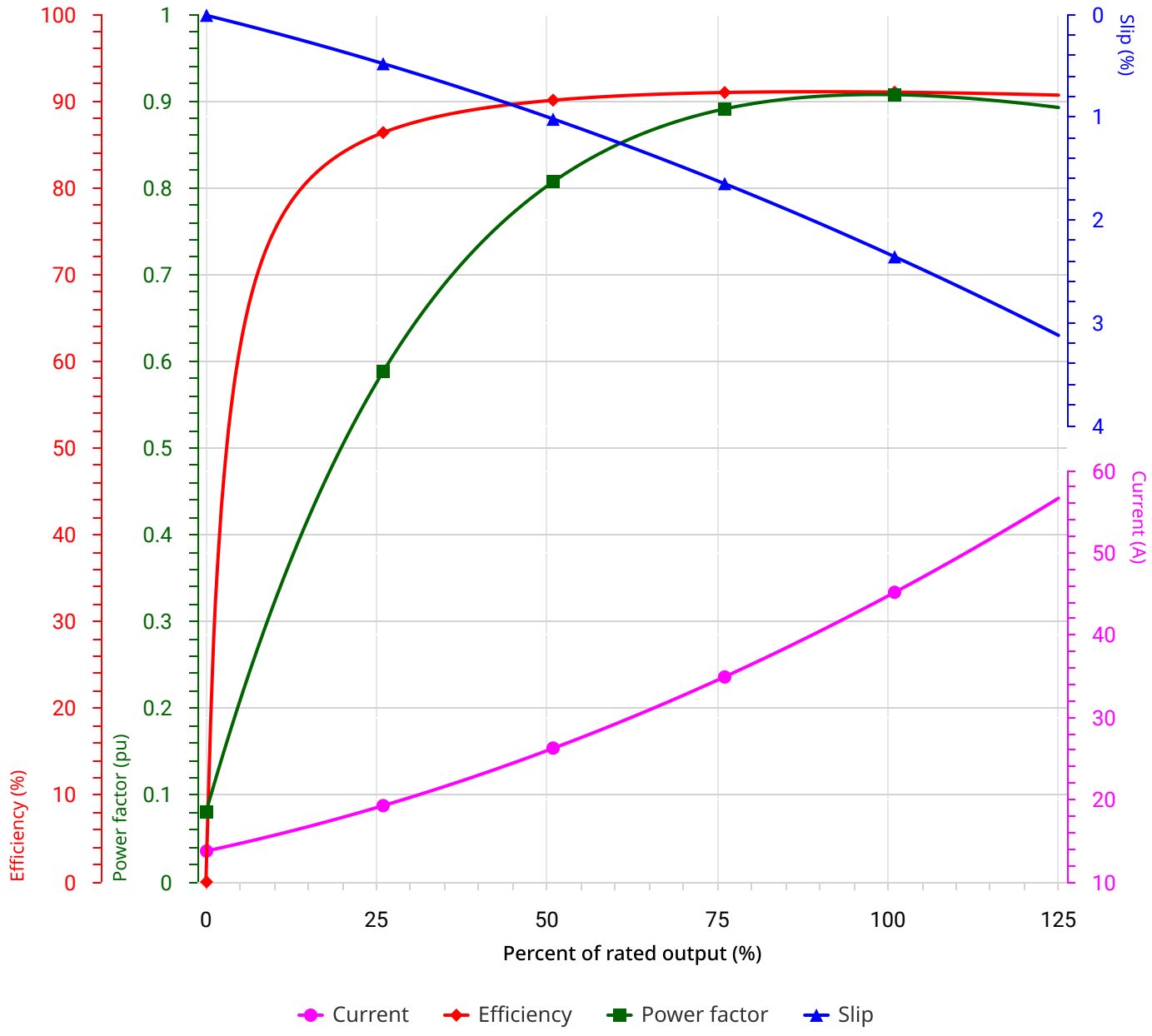
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LOAD PERFORMANCE CURVE

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Customer	:
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Product code	: 13373887



Performance	: 20 HP (15 kW) 208/230/460V 60Hz 2P 254/6JM

Rated current	: 50.2/45.4/22.7 A	Moment of inertia (J)	: 0.0514 kgm²
LRC	: 6.6 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 4.13 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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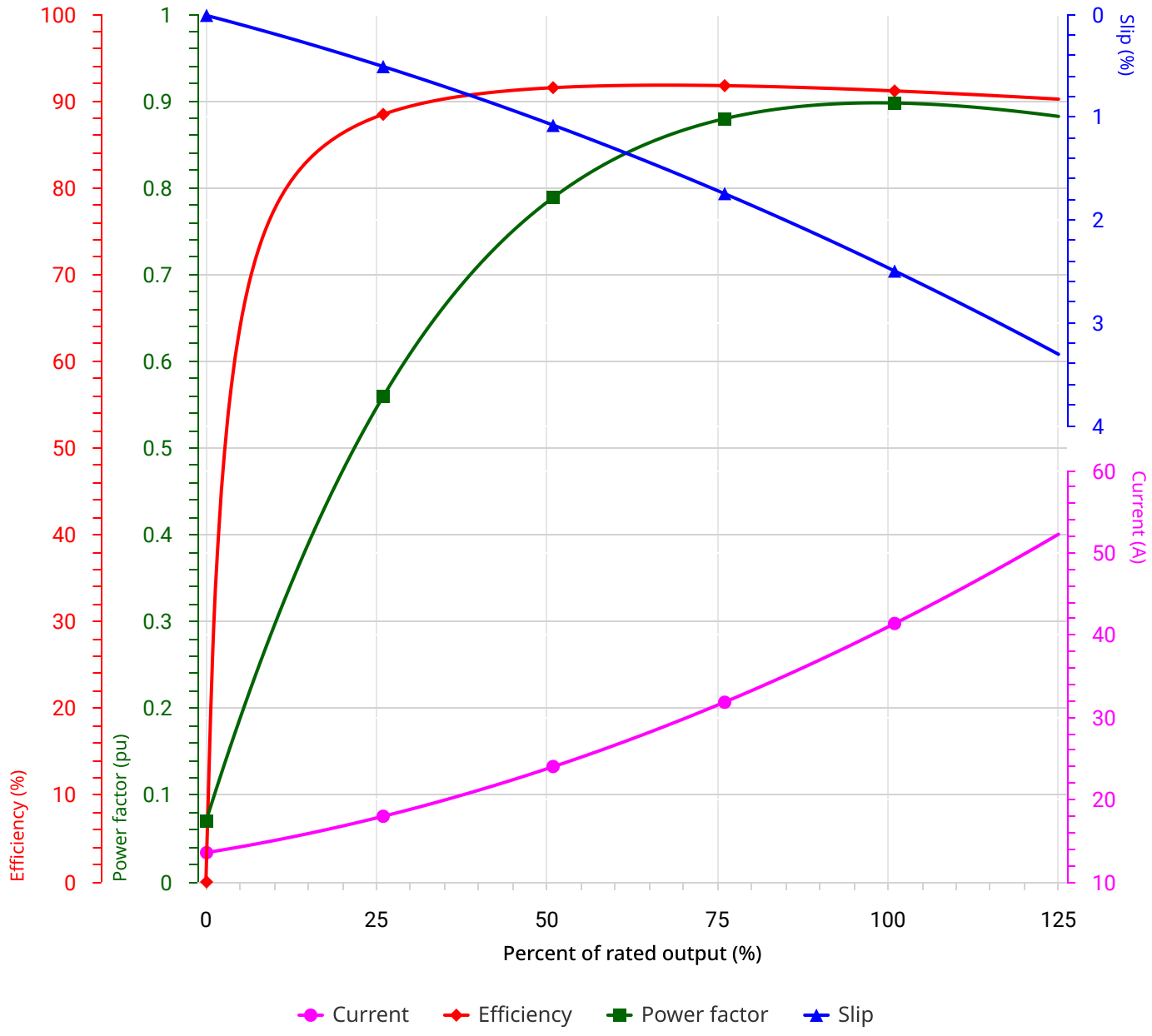
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - TEFC - Nema Premium Efficiency JM Derating
Product code	: 13373887



Performance	: 15 HP (11 kW) 190/380V 50Hz 2P 254/6JM

Rated current	: 40.8/20.4 A	Moment of inertia (J)	: 0.0514 kgm²
LRC	: 7.4 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 3.72 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 95 K
Rated speed	: 2925 rpm	Design	: B

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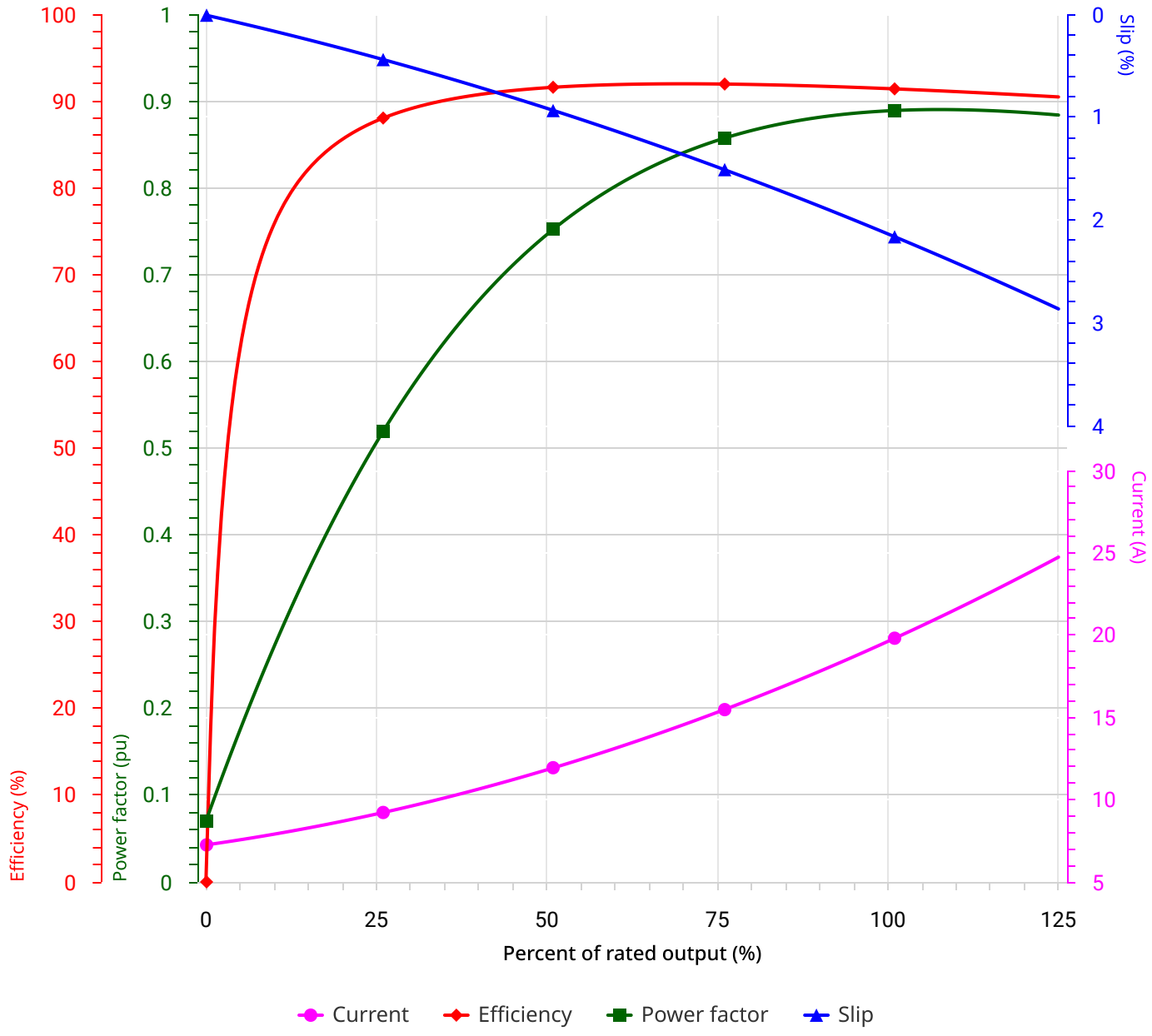
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 13373887



Performance	: 15 HP (11 kW) 400V 50Hz 2P 254/6JM

Rated current	: 19.5 A	Moment of inertia (J)	: 0.0514 kgm²
LRC	: 8.1 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 3.71 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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