DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Tru Metric - IE3 Nema Premium Efficiency (Derating)
Product code	: 12645345

Frame	: 160M	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3L(E)
Duty cycle	: Cont.(S1)	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 139 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1004 kgm²
Design	: N		

Output		15 HP (11 kW)	15 HP (11 kW)	15 HP (11 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	380 V	400 V
Rated current		36.4/18.2 A	21.5 A	20.9 A
L. R. Amperes		309/155 A	161 A	167 A
LRC		8.5 Code K	7.5 Code H	8.0 Code J
No load current		18.2/9.08 A	9.00 A	9.70 A
Rated speed		1780 rpm	1470 rpm	1475 rpm
Slip		1.11 %	2.00 %	1.67 %
Rated torque		6.12 kgfm	7.41 kgfm	7.38 kgfm
Locked rotor torque		300 %	220 %	250 %
Breakdown torque		330 %	250 %	280 %
Service factor		1.25	1.00	1.00
Temperature rise		80 K	80 K	80 K
Noise level		64 dB(A)	61 dB(A)	61 dB(A)
Locked rotor time		16 s (hot) 29 s (cold)	14 s (hot) 25 s (cold)	12 s (hot) 22 s (cold)
Efficiency (%)	50%	89.5	91.0	90.8
	75%	91.7	91.4	91.4
	100%	92.4	91.4	91.4
Power Factor	Start	0.55	0.49	0.49
	50%	0.63	0.69	0.65
	75%	0.75	0.79	0.76
	100%	0.82	0.85	0.83
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		7.89	9.02	9.02
P2 (0,5;1,0)		6.37	7.28	7.28
P3 (0,25;1,0)		6.04	6.90	6.90
P4 (0,9;0,5)		4.56	5.21	5.21
P5 (0,5;0,5)		3.06	3.50	3.50
P6 (0,5;0,25)		2.32	2.65	2.65
P7 (0,25;0,25)		1.62	1.85	1.85

	Drive end	Non drive end
Bearing type	6309-C3	6209-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	9 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 252 kgf
Max. compression : 391 kgf

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/05

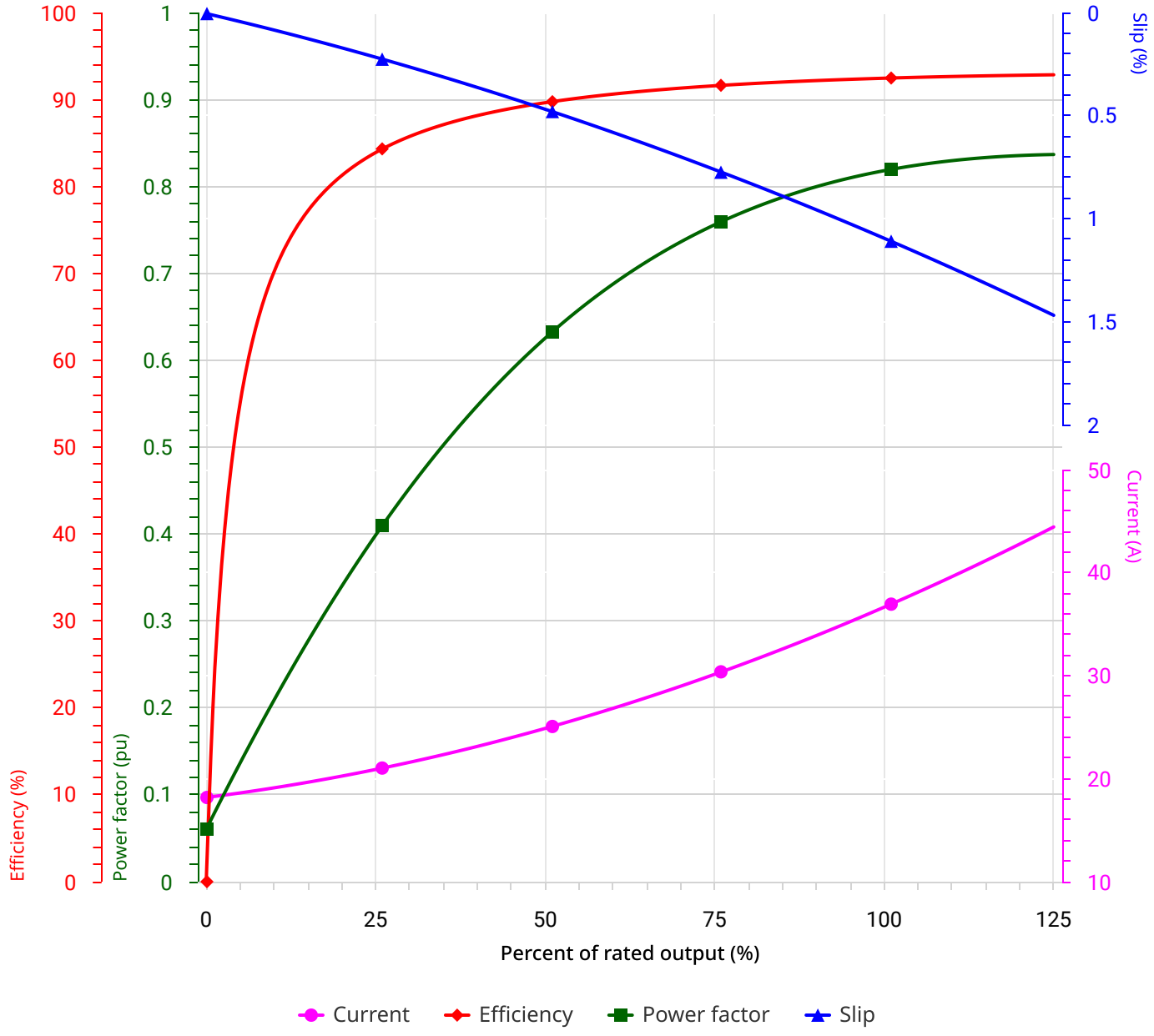
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Tru Metric - IE3 Nema Premium Efficiency (Derating)
Product code	: 12645345



Performance	: 15 HP (11 kW) 208/230/460V 60Hz 4P 160M

Rated current	: 40.3/36.4/18.2 A	Moment of inertia (J)	: 0.1004 kgm²
LRC	: 8.5 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 6.12 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: N

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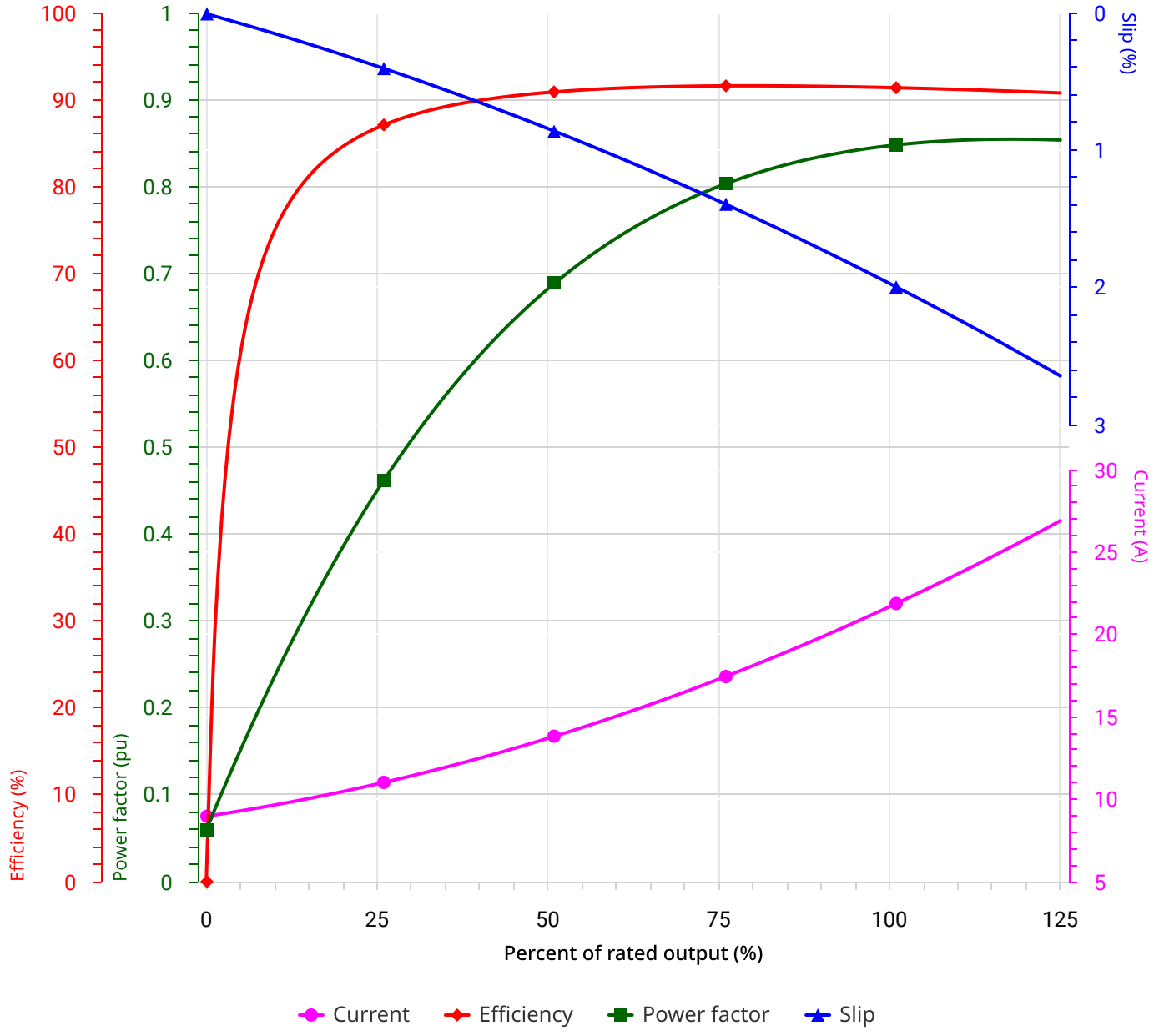
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Tru Metric - IE3 Nema Premium Efficiency (Derating)
Product code	: 12645345



Performance	: 15 HP (11 kW) 380V 50Hz 4P 160M

Rated current	: 21.5 A	Moment of inertia (J)	: 0.1004 kgm²
LRC	: 7.5 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 7.41 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: N

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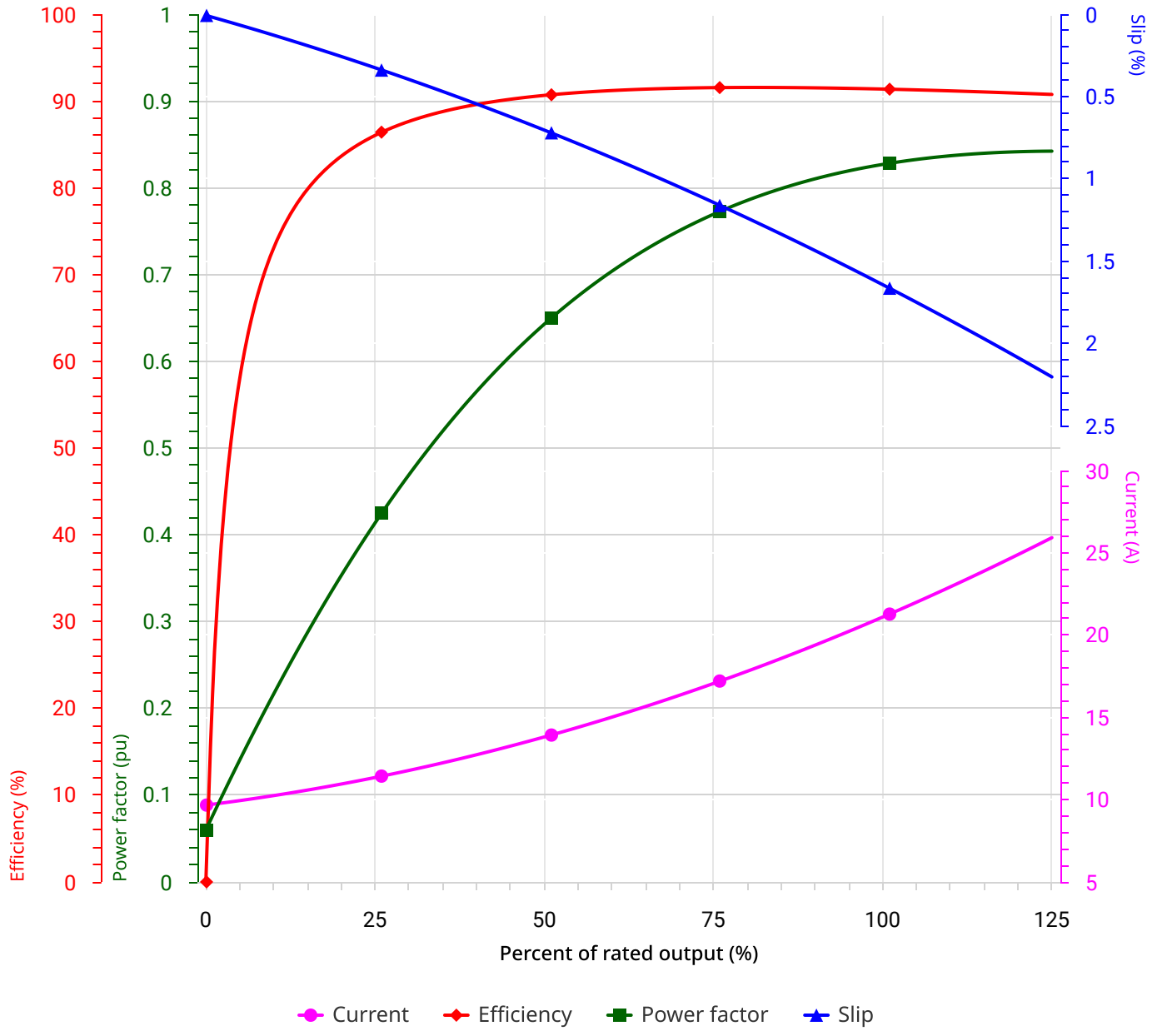
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 12645345



Performance	: 15 HP (11 kW) 400V 50Hz 4P 160M

Rated current	: 20.9 A	Moment of inertia (J)	: 0.1004 kgm²
LRC	: 8.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 7.38 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: N

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