DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Tru Metric - IE3 Nema Premium Efficiency (Derating)
Product code	: 12596563

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	: 124 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0419 kgm²
Design	: N		

Output		15 HP (11 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	380 V	400 V
Rated current		36.6/18.3 A	21.1 A	20.5 A
L. R. Amperes		347/174 A	168 A	174 A
LRC		9.5 Code L	8.0 Code J	8.5 Code K
No load current		16.0/8.00 A	7.80 A	8.50 A
Rated speed		3560 rpm	2945 rpm	2952 rpm
Slip		1.11 %	1.83 %	1.60 %
Rated torque		3.06 kgfm	3.70 kgfm	3.69 kgfm
Locked rotor torque		330 %	240 %	270 %
Breakdown torque		420 %	320 %	350 %
Service factor		1.25	1.00	1.00
Temperature rise		80 K	80 K	80 K
Noise level		72 dB(A)	67 dB(A)	67 dB(A)
Locked rotor time		10 s (hot) 18 s (cold)	9 s (hot) 16 s (cold)	9 s (hot) 16 s (cold)
Efficiency (%)	50%	89.5	90.5	90.0
	75%	91.0	91.0	91.0
	100%	91.0	91.2	91.2
Power Factor	Start	0.49	0.48	0.48
	50%	0.67	0.74	0.70
	75%	0.77	0.83	0.80
	100%	0.83	0.87	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		10.21	8.70	9.10
P2 (0,5;1,0)		8.27	7.04	7.37
P3 (0,25;1,0)		8.22	7.00	7.32
P4 (0,9;0,5)		5.92	5.04	5.28
P5 (0,5;0,5)		3.86	3.29	3.44
P6 (0,5;0,25)		2.90	2.47	2.58
P7 (0,25;0,25)		2.02	1.72	1.80

	Drive end	Non drive end
Bearing type	6309-C3	6209-C3
Lubrication interval	19000 h	20000 h
Lubricant amount	13 g	9 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 139 kgf
Max. compression : 263 kgf

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/09

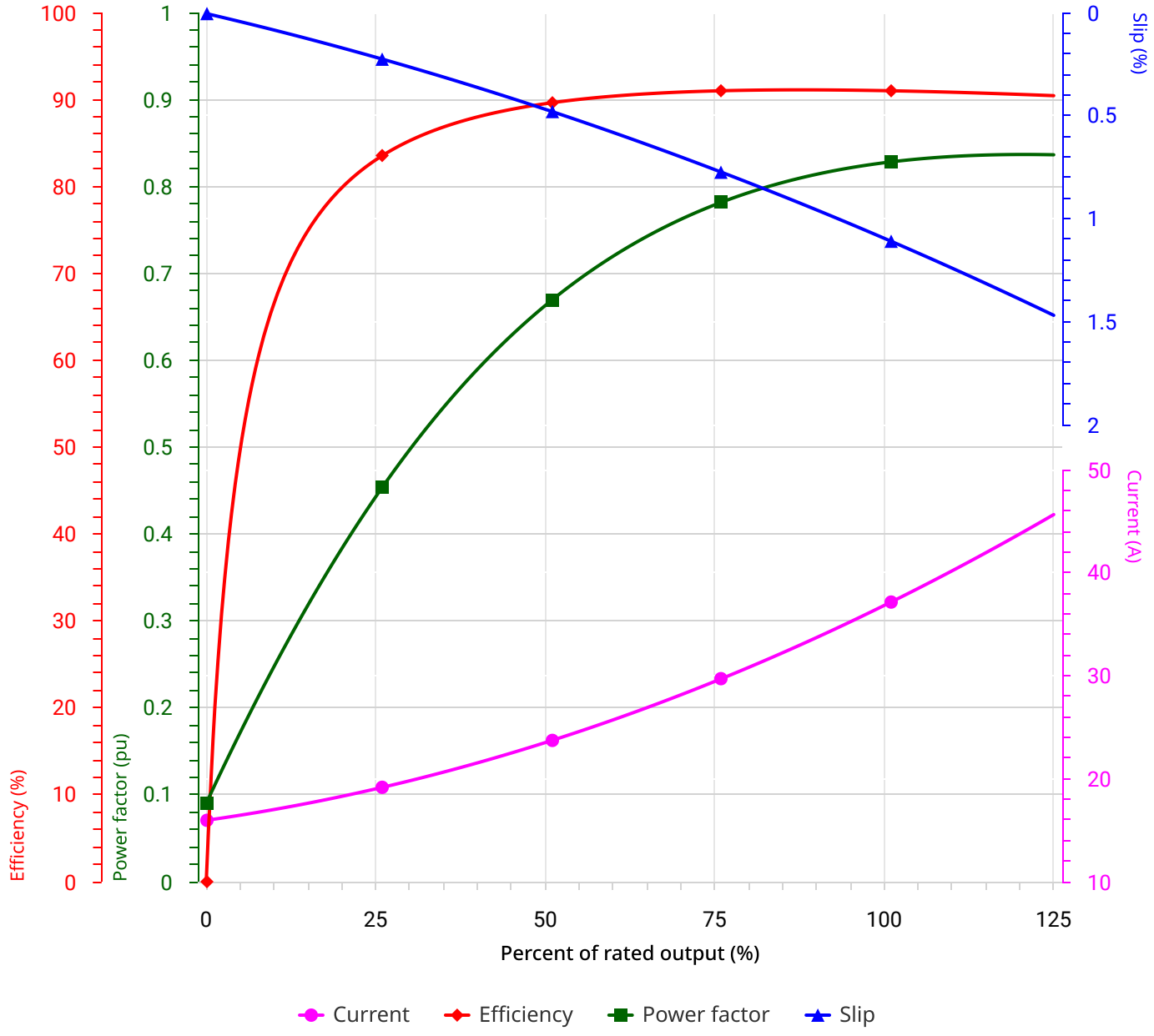
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LOAD PERFORMANCE CURVE

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Customer	:
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Product code	: 12596563



Performance	: 15 HP (11 kW) 208/230/460V 60Hz 2P 160M

Rated current	: 40.4/36.6/18.3 A	Moment of inertia (J)	: 0.0419 kgm²
LRC	: 9.5 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 3.06 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.25
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: N

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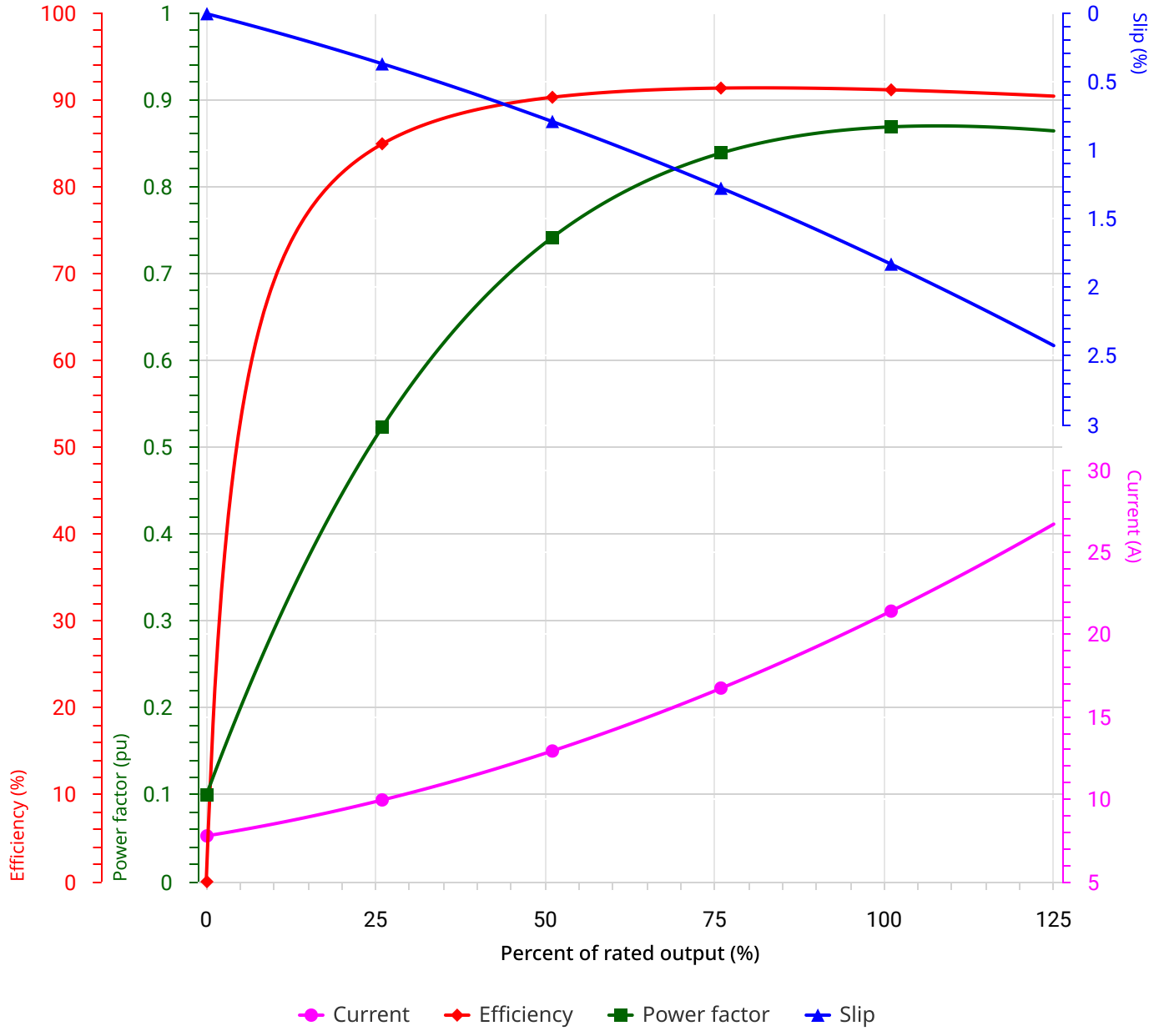
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Tru Metric - IE3 Nema Premium Efficiency (Derating)
Product code	: 12596563



Performance	: 15 HP (11 kW) 380V 50Hz 2P 160M

Rated current	: 21.1 A	Moment of inertia (J)	: 0.0419 kgm²
LRC	: 8.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 3.70 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: N

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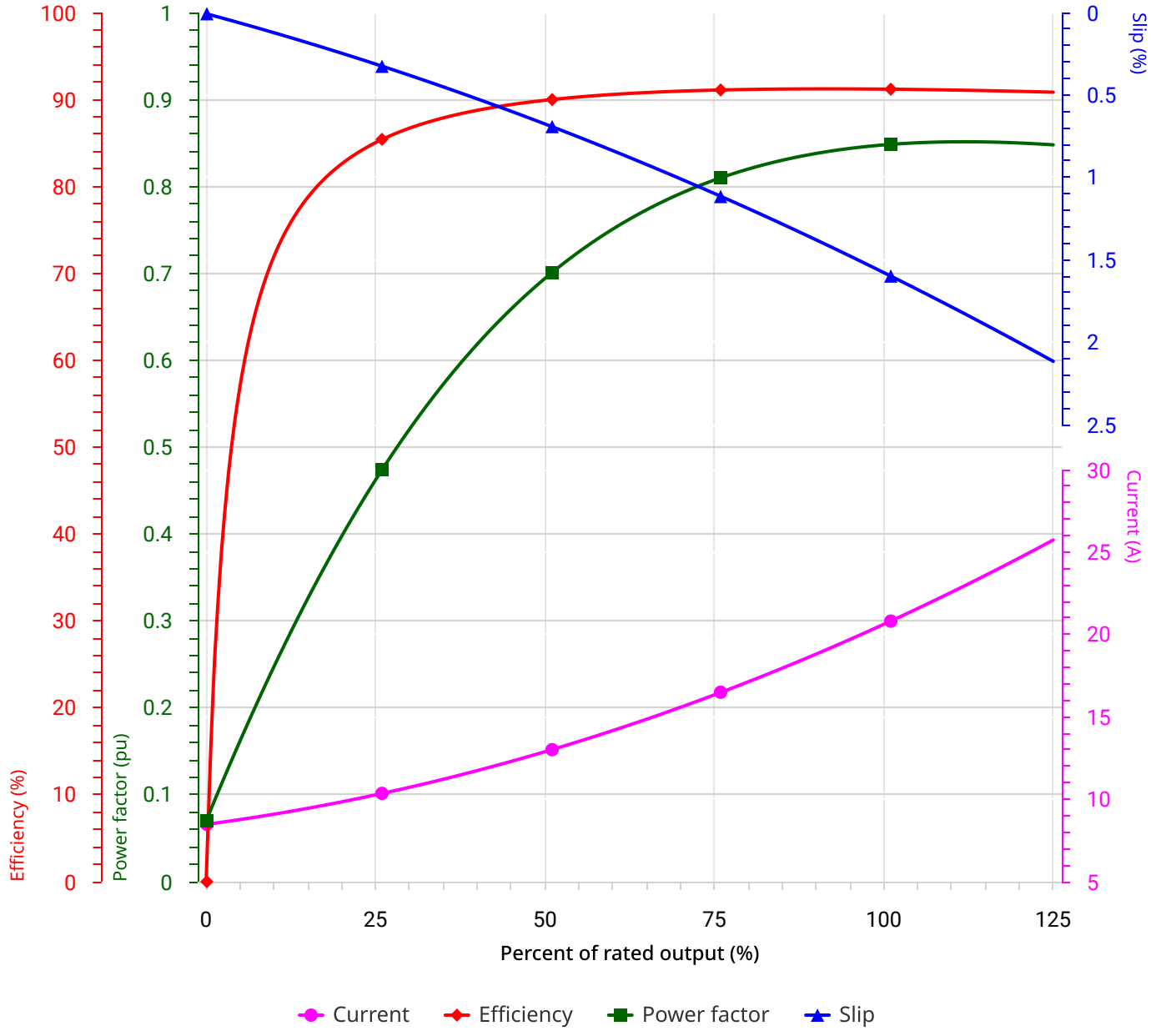
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 12596563



Performance	: 15 HP (11 kW) 400V 50Hz 2P 160M

Rated current	: 20.5 A	Moment of inertia (J)	: 0.0419 kgm²
LRC	: 8.5 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 3.69 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 2952 rpm	Design	: N

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