DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 12717787

Frame	: 213/5T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 69.7 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0197 kgm²
Design	: B		

Output		7.5 HP (5.5	7.5 HP (5.5	7.5 HP (5.5	7.5 HP (5.5	5.5 HP (4 kW)	5.5 HP (4 kW)	5.5 HP (4 kW)
Poles		2	2	2	2	2	2	2
Frequency		60 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	380 V	400 V	415 V	380 V	400 V	415 V
Rated current		17.5/8.76 A	10.6 A	10.2 A	9.82 A	7.83 A	7.60 A	7.49 A
L. R. Amperes		126/63.1 A	60.5 A	65.2 A	67.8 A	60.3 A	57.8 A	62.2 A
LRC		7.2 Code H	5.7 Code F	6.4 Code G	6.9 Code H	7.7 Code J	7.6 Code J	8.3 Code K
No load current		5.80/2.90 A	2.90 A	3.15 A	3.30 A	2.90 A	3.15 A	3.30 A
Rated speed		3530 rpm	2910 rpm	2920 rpm	2925 rpm	2940 rpm	2945 rpm	2950 rpm
Slip		1.94 %	3.00 %	2.67 %	2.50 %	2.00 %	1.83 %	1.67 %
Rated torque		1.54 kgfm	1.87 kgfm	1.86 kgfm	1.86 kgfm	1.36 kgfm	1.36 kgfm	1.35 kgfm
Locked rotor torque		210 %	170 %	180 %	200 %	220 %	250 %	270 %
Breakdown torque		300 %	230 %	260 %	280 %	310 %	350 %	370 %
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Noise level		68 dB(A)	63 dB(A)	63 dB(A)	63 dB(A)	63 dB(A)	63 dB(A)	63 dB(A)
Locked rotor time		18 s (hot) 32 s (cold)	15 s (hot) 27 s (cold)	14 s (hot) 25 s (cold)	14 s (hot) 25 s (cold)	21 s (hot) 38 s (cold)	21 s (hot) 38 s (cold)	21 s (hot) 38 s (cold)
Efficiency (%)	50%	87.5	88.5	87.5	87.5	86.7	86.4	86.1
	75%	89.5	88.5	87.5	88.5	88.2	88.3	88.5
	100%	89.5	87.5	87.5	88.5	88.2	88.3	88.5
Power Factor	Start	0.49	0.49	0.49	0.49	0.51	0.52	0.52
	50%	0.75	0.80	0.77	0.74	0.74	0.70	0.67
	75%	0.84	0.87	0.86	0.84	0.83	0.81	0.78
	100%	0.88	0.9	0.89	0.88	0.88	0.86	0.84
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		11.30	13.76	13.76	12.51	12.88	12.76	12.51
P2 (0,5;1,0)		9.20	11.20	11.20	10.19	10.49	10.39	10.19
P3 (0,25;1,0)		8.51	10.36	10.36	9.42	9.70	9.61	9.42
P4 (0,9;0,5)		5.77	7.02	7.02	6.39	6.58	6.51	6.39
P5 (0,5;0,5)		3.57	4.35	4.35	3.95	4.07	4.03	3.95
P6 (0,5;0,25)		2.33	2.84	2.84	2.59	2.66	2.64	2.59
P7 (0,25;0,25)		1.48	1.81	1.81	1.64	1.69	1.68	1.64

	Drive end	Non drive end
Bearing type	6308-ZZ	6207-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads
Max. traction : 60 kgf
Max. compression : 130 kgf

Notes:
Naval Certification Organism: NOT APPLICABLE
Naval Service: NOT APPLICABLE

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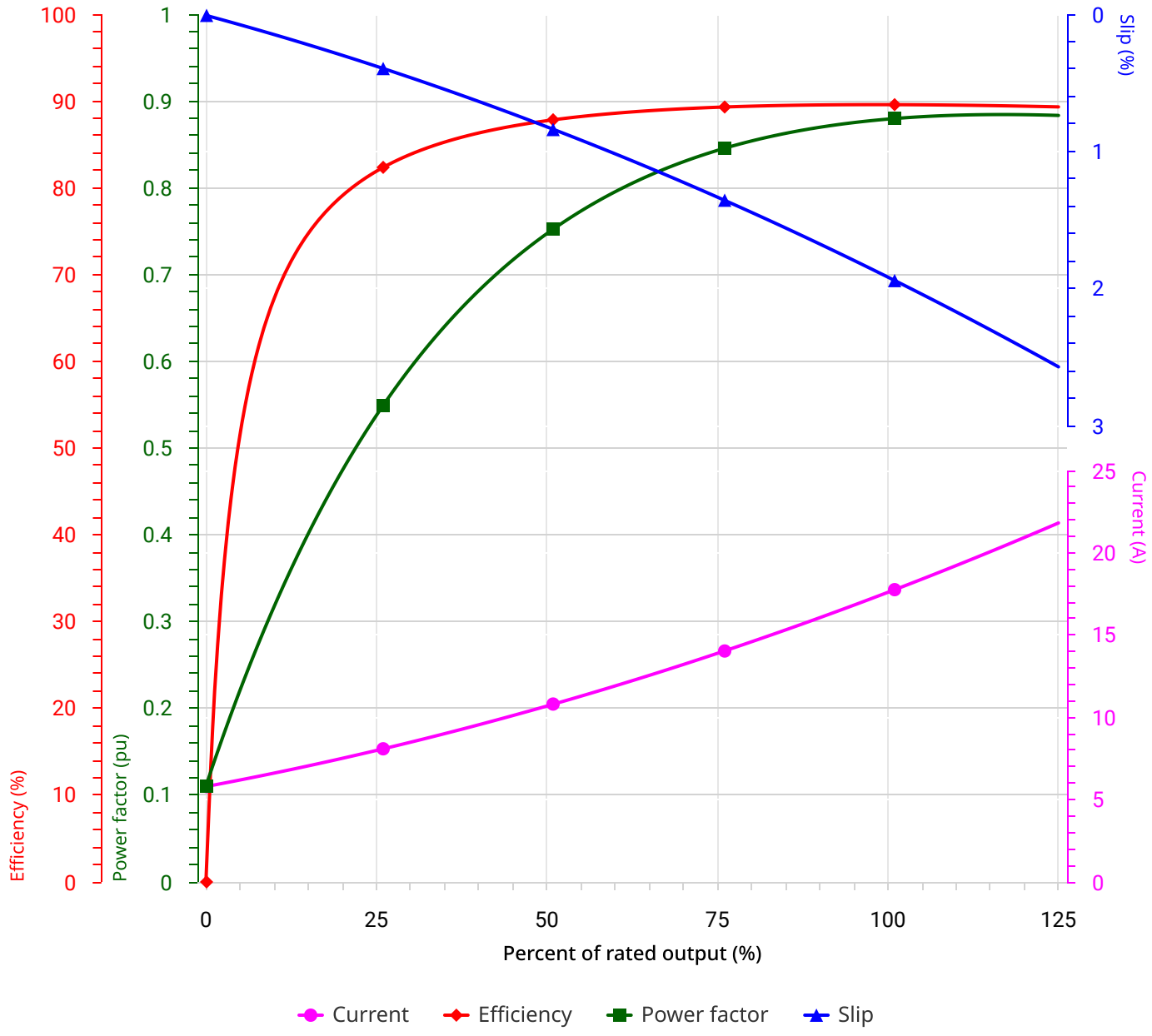
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 12717787



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 2P 213/5T

Rated current	: 19.4/17.5/8.76 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 7.2 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.54 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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				2026/10/31

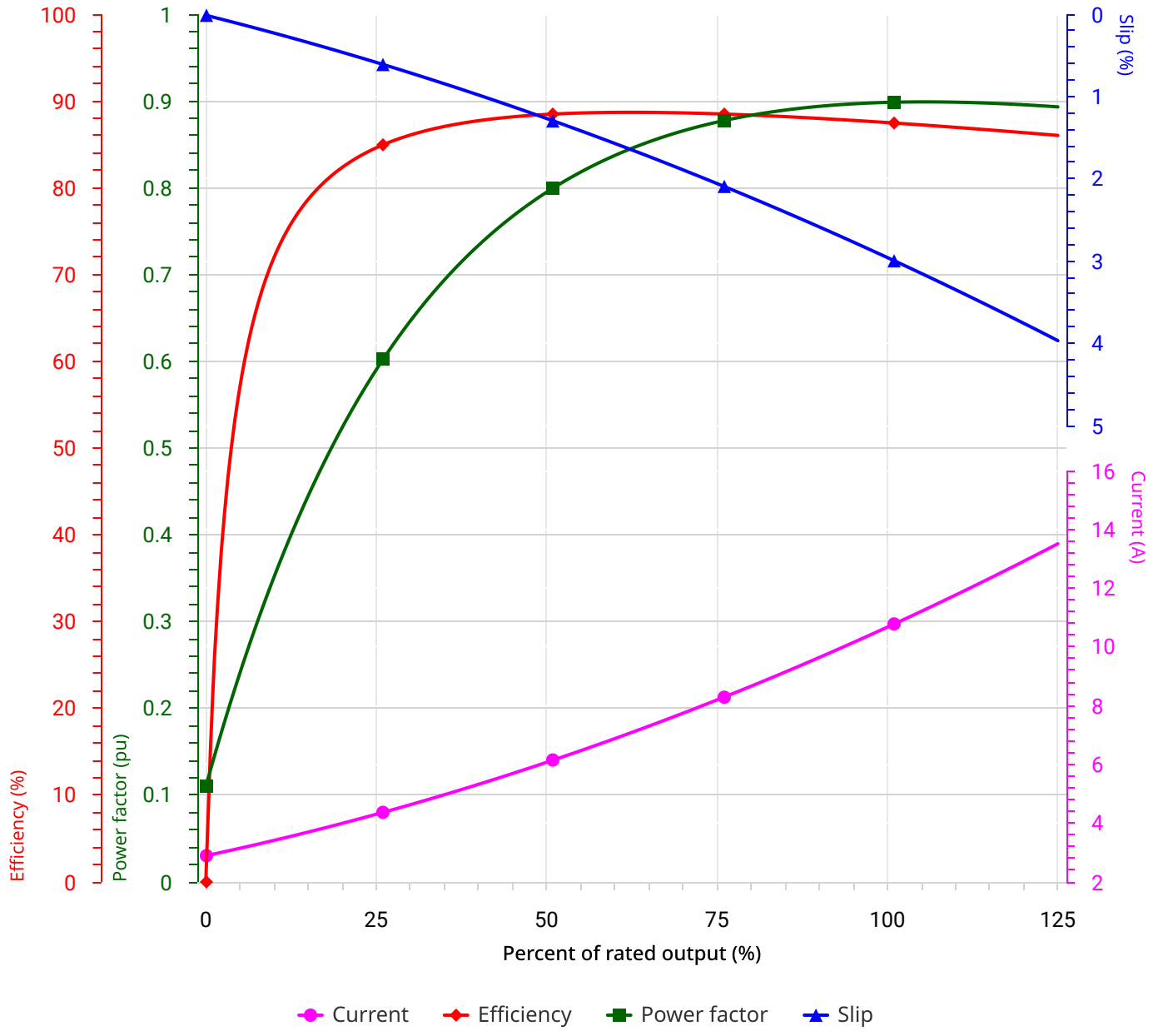
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 12717787



Performance	: 7.5 HP (5.5 kW) 380V 50Hz 2P 213/5T

Rated current	: 10.6 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 5.7 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 1.87 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.25
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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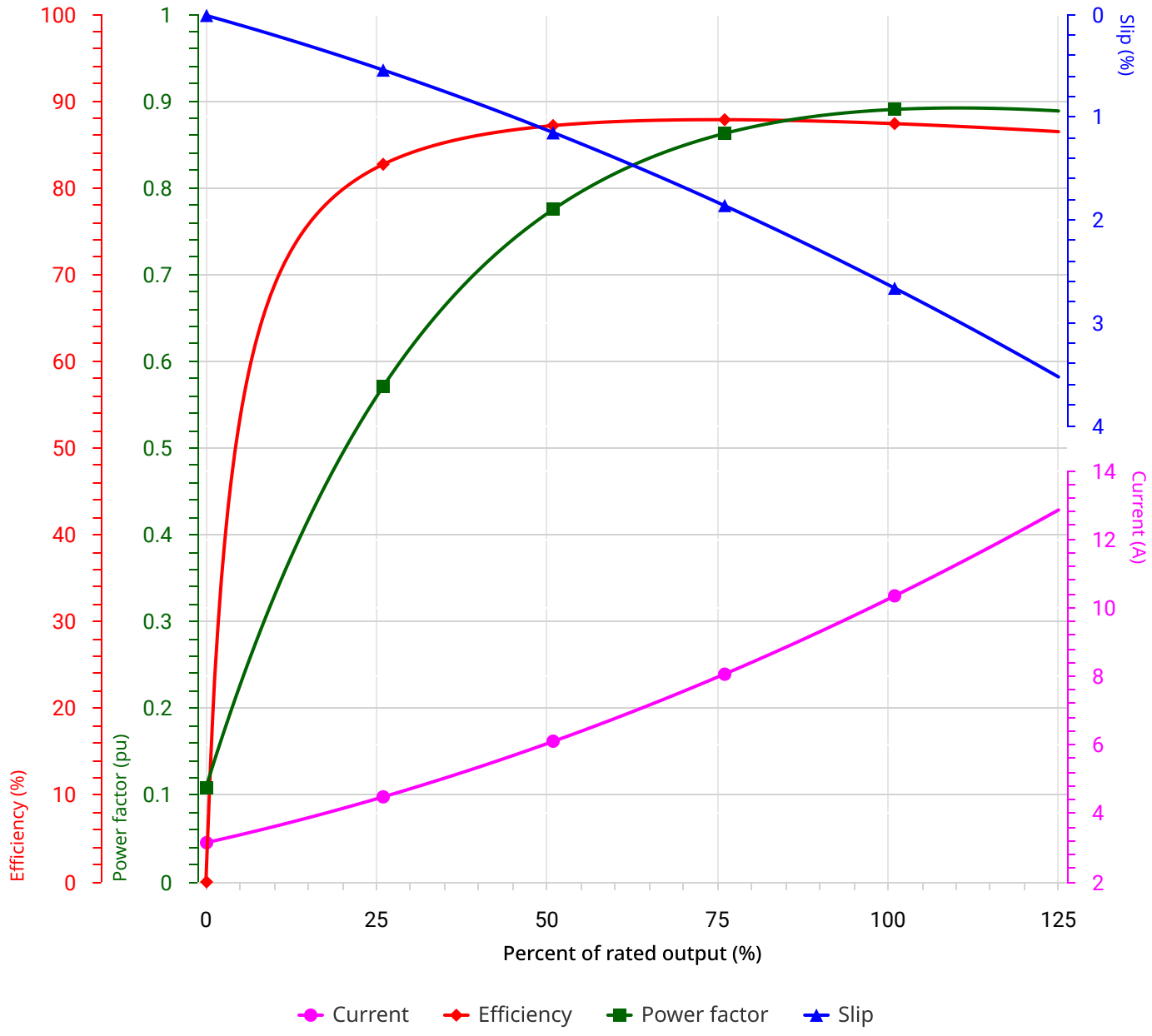
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 12717787



Performance	: 7.5 HP (5.5 kW) 400V 50Hz 2P 213/5T

Rated current	: 10.2 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 6.4 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 1.86 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B

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				2026/10/31

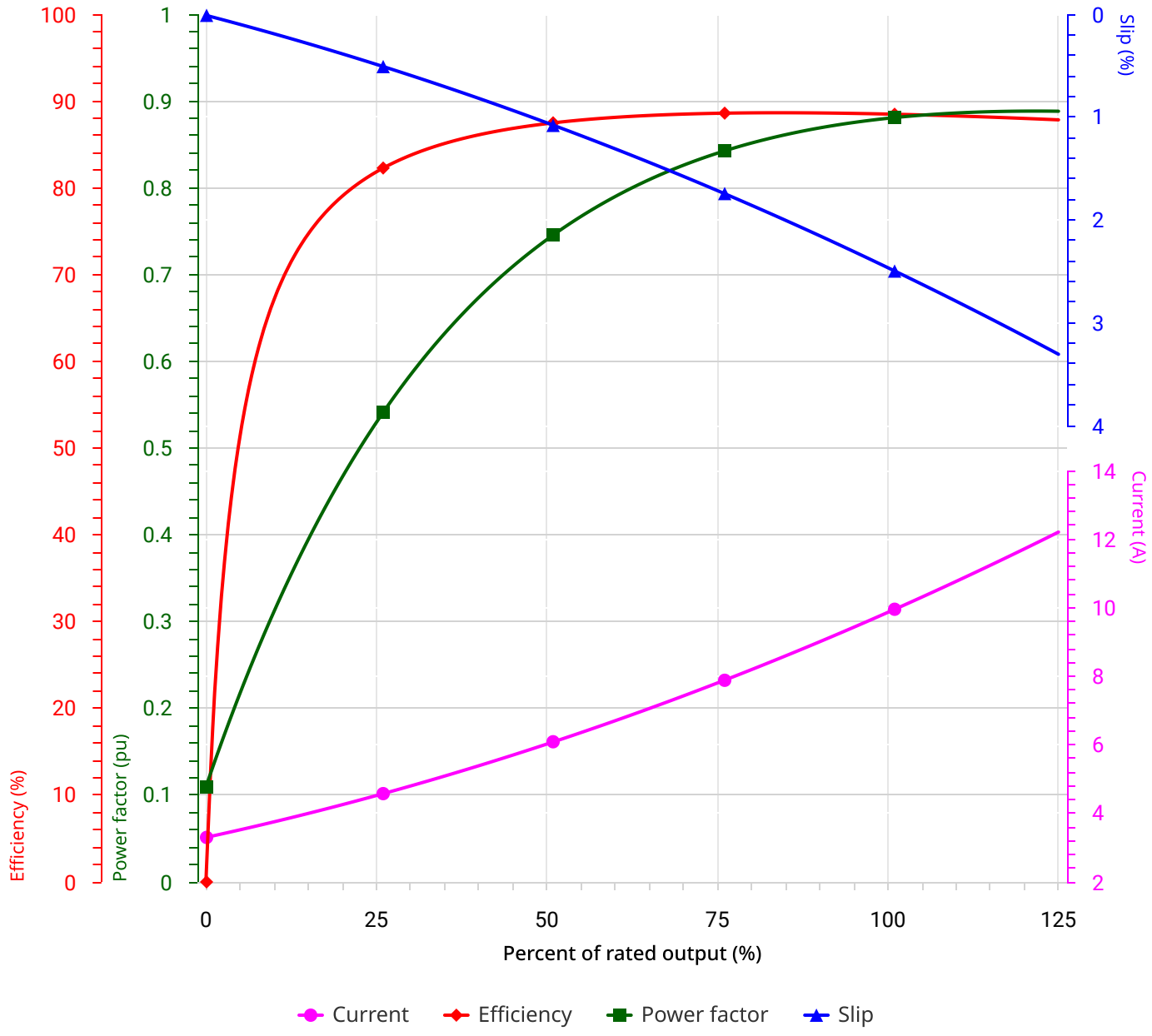
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Date	2026/10/31		4/8	0

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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 12717787



Performance	: 7.5 HP (5.5 kW) 415V 50Hz 2P 213/5T

Rated current	: 9.82 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 6.9 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.86 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2925 rpm	Design	: B

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				2026/10/31

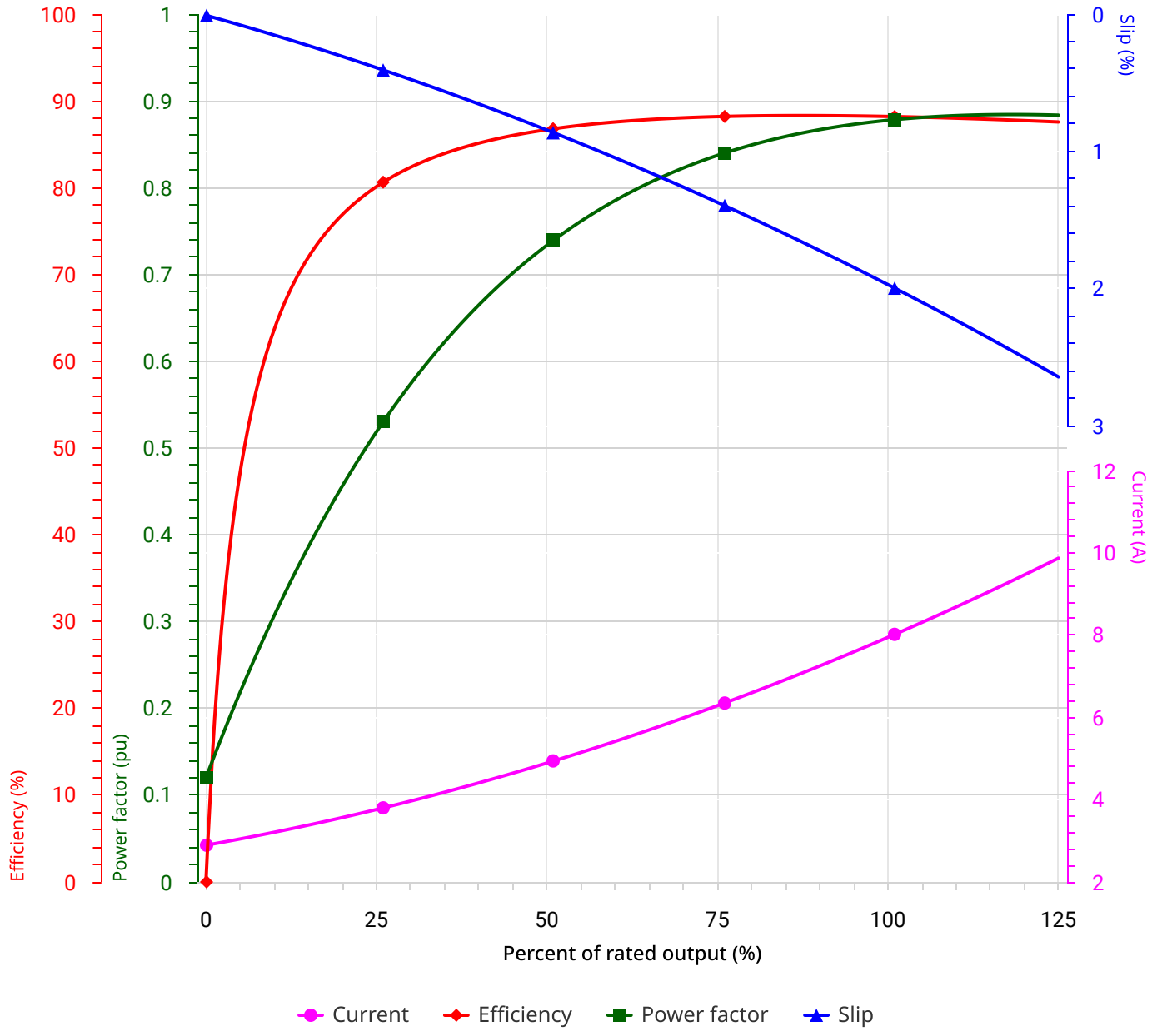
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Date	2026/10/31		5/8	0

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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 12717787



Performance	: 5.5 HP (4 kW) 380V 50Hz 2P 213/5T

Rated current	: 7.83 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 7.7 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.36 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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				2026/10/31

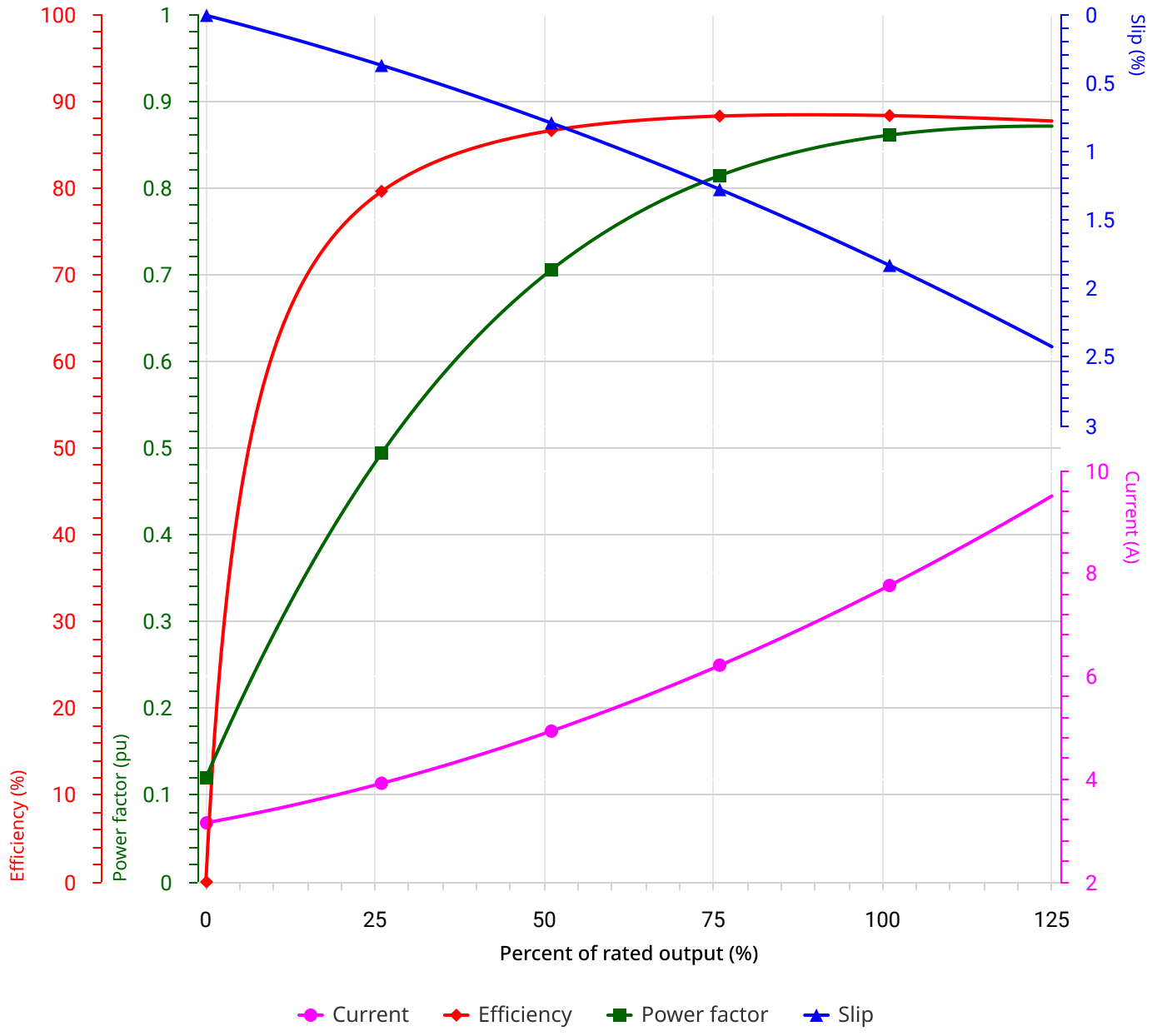
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Date	2026/10/31		6/8	0

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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 12717787



Performance	: 5.5 HP (4 kW) 400V 50Hz 2P 213/5T

Rated current	: 7.60 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.36 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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				2026/10/31

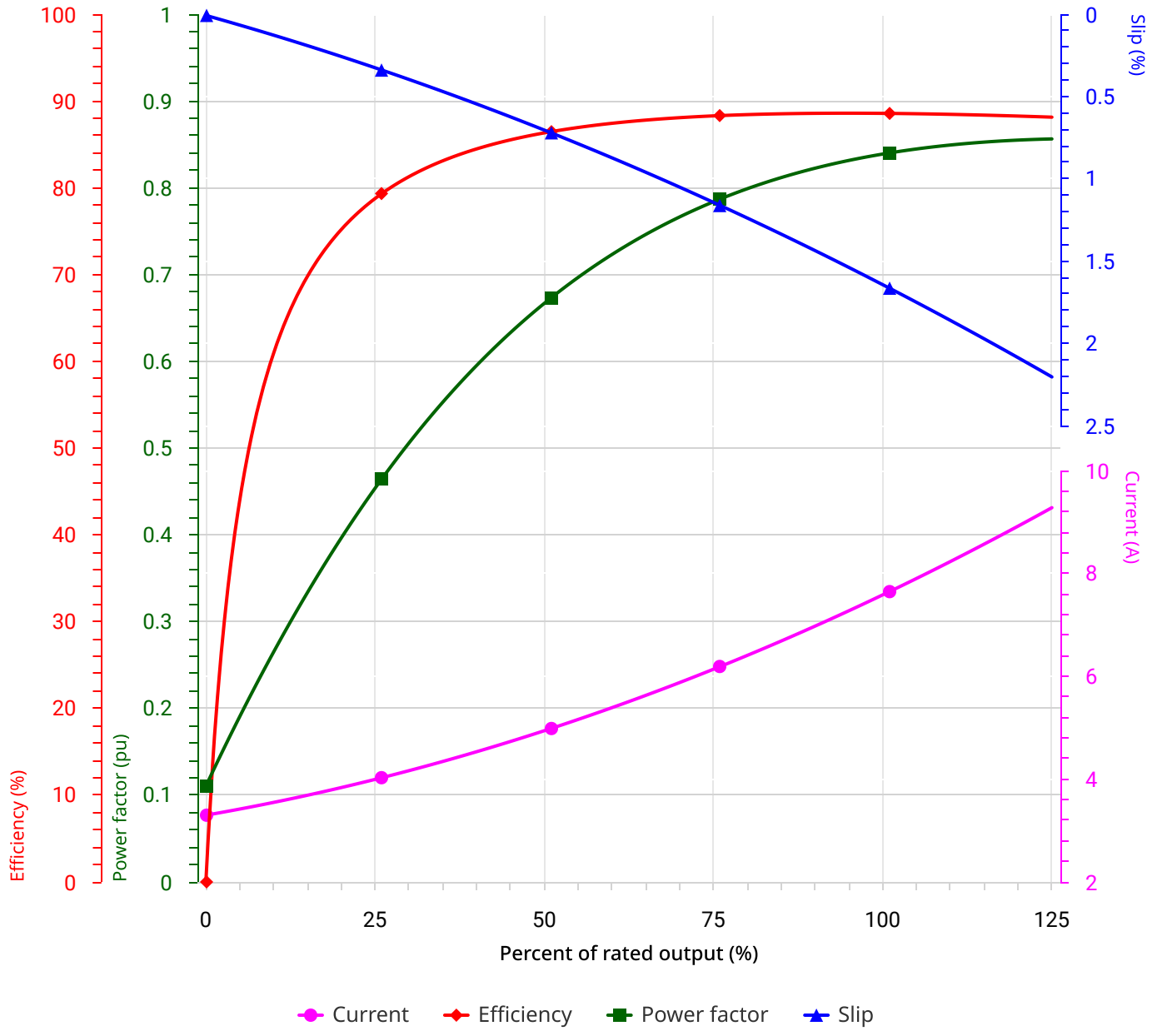
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency
Product code	: 12717787



Performance	: 5.5 HP (4 kW) 415V 50Hz 2P 213/5T

Rated current	: 7.49 A	Moment of inertia (J)	: 0.0197 kgm²
LRC	: 8.3 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.35 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Date	2026/10/31		8/8	0

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