DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12969044

Frame	: 182/4JM	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B34R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 42.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0095 kgm²
Design	: A		

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	10.9 A	10.3 A	10.0 A	7.84 A	7.62 A	7.47 A
L. R. Amperes		144/71.8 A	68.7 A	72.1 A	74.0 A	65.1 A	69.3 A	71.7 A
LRC		8.2 Code J	6.3 Code G	7.0 Code H	7.4 Code H	8.3 Code J	9.1 Code K	9.6 Code L
No load current		5.80/2.90 A	2.70 A	3.00 A	3.20 A	2.70 A	3.00 A	3.20 A
Rated speed		3485 rpm	2810 rpm	2840 rpm	2860 rpm	2900 rpm	2910 rpm	2915 rpm
Slip		3.19 %	6.33 %	5.33 %	4.67 %	3.33 %	3.00 %	2.83 %
Rated torque		1.56 kgfm	1.94 kgfm	1.92 kgfm	1.90 kgfm	1.38 kgfm	1.37 kgfm	1.37 kgfm
Locked rotor torque		270 %	220 %	250 %	270 %	310 %	350 %	370 %
Breakdown torque		330 %	260 %	280 %	310 %	360 %	390 %	430 %
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Noise level		66 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)	62 dB(A)
Locked rotor time		17 s (hot) 31 s (cold)	16 s (hot) 29 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	16 s (hot) 29 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)
Efficiency (%)	50%	88.5	87.0	87.5	88.0	85.5	85.9	86.2
	75%	89.5	87.0	88.0	88.5	87.0	87.6	88.1
	100%	89.5	84.5	86.0	87.0	88.1	88.1	88.7
Power Factor	Start	0.57	0.57	0.58	0.59	0.57	0.58	0.59
	50%	0.75	0.80	0.77	0.74	0.70	0.66	0.63
	75%	0.84	0.88	0.86	0.84	0.82	0.79	0.77
	100%	0.88	0.91	0.9	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)		11.37	11.37	11.37	11.37	11.37	11.37	11.37
P2 (0,5;1,0)		9.44	9.44	9.44	9.44	9.44	9.44	9.44
P3 (0,25;1,0)		8.68	8.68	8.68	8.68	8.68	8.68	8.68
P4 (0,9;0,5)		5.32	5.32	5.32	5.32	5.32	5.32	5.32
P5 (0,5;0,5)		3.43	3.43	3.43	3.43	3.43	3.43	3.43
P6 (0,5;0,25)		2.08	2.08	2.08	2.08	2.08	2.08	2.08
P7 (0,25;0,25)		1.33	1.33	1.33	1.33	1.33	1.33	1.33

	Drive end	Non drive end
Bearing type	6307-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads
Max. traction : 101 kgf
Max. compression : 143 kgf

Notes:

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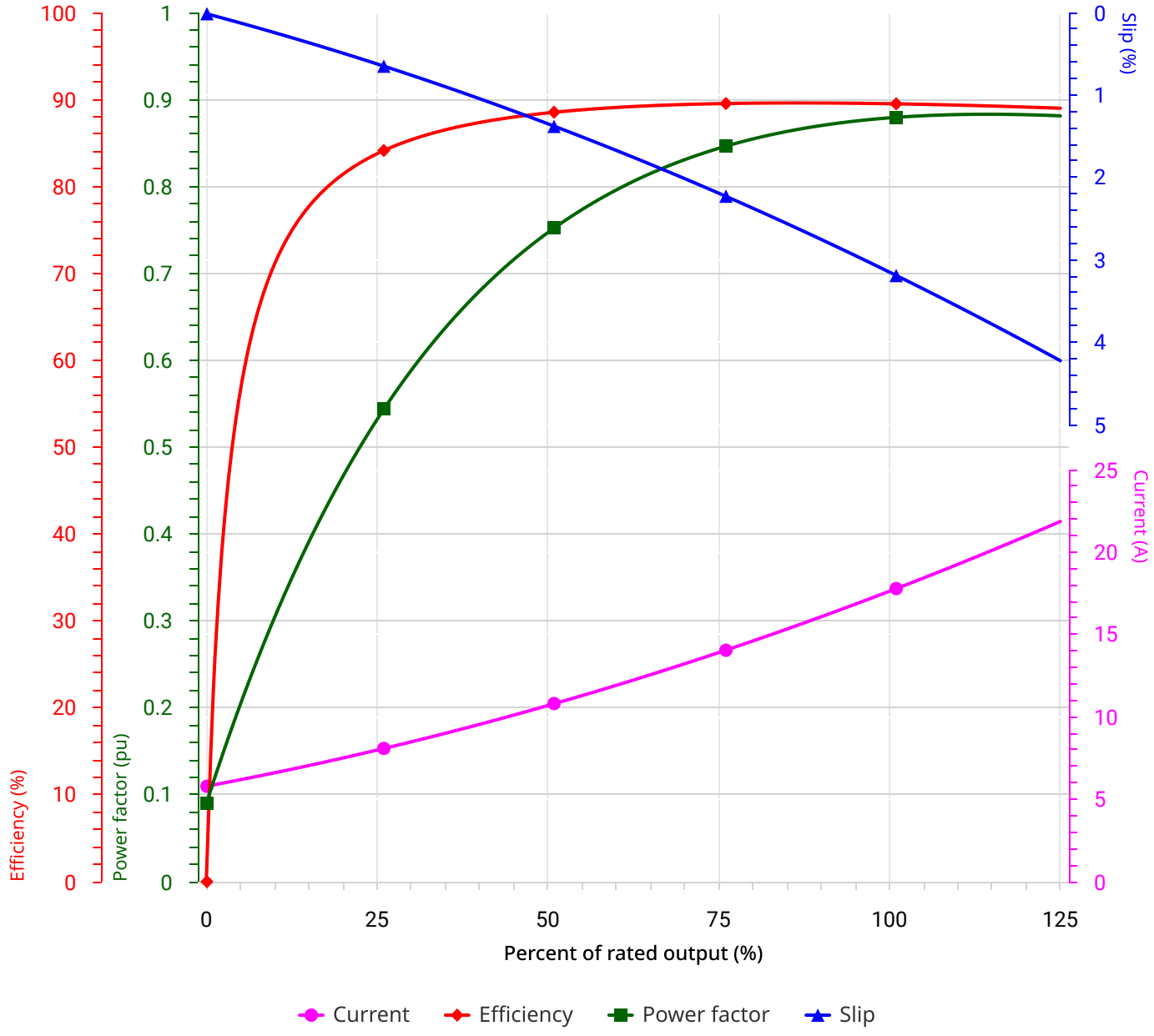
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12969044



Performance	: 7.5 HP (5.5 kW) 208/230/460V 60Hz 2P 182/4JM

Rated current	: 19.4/17.5/8.76 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 8.2 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.56 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3485 rpm	Design	: A

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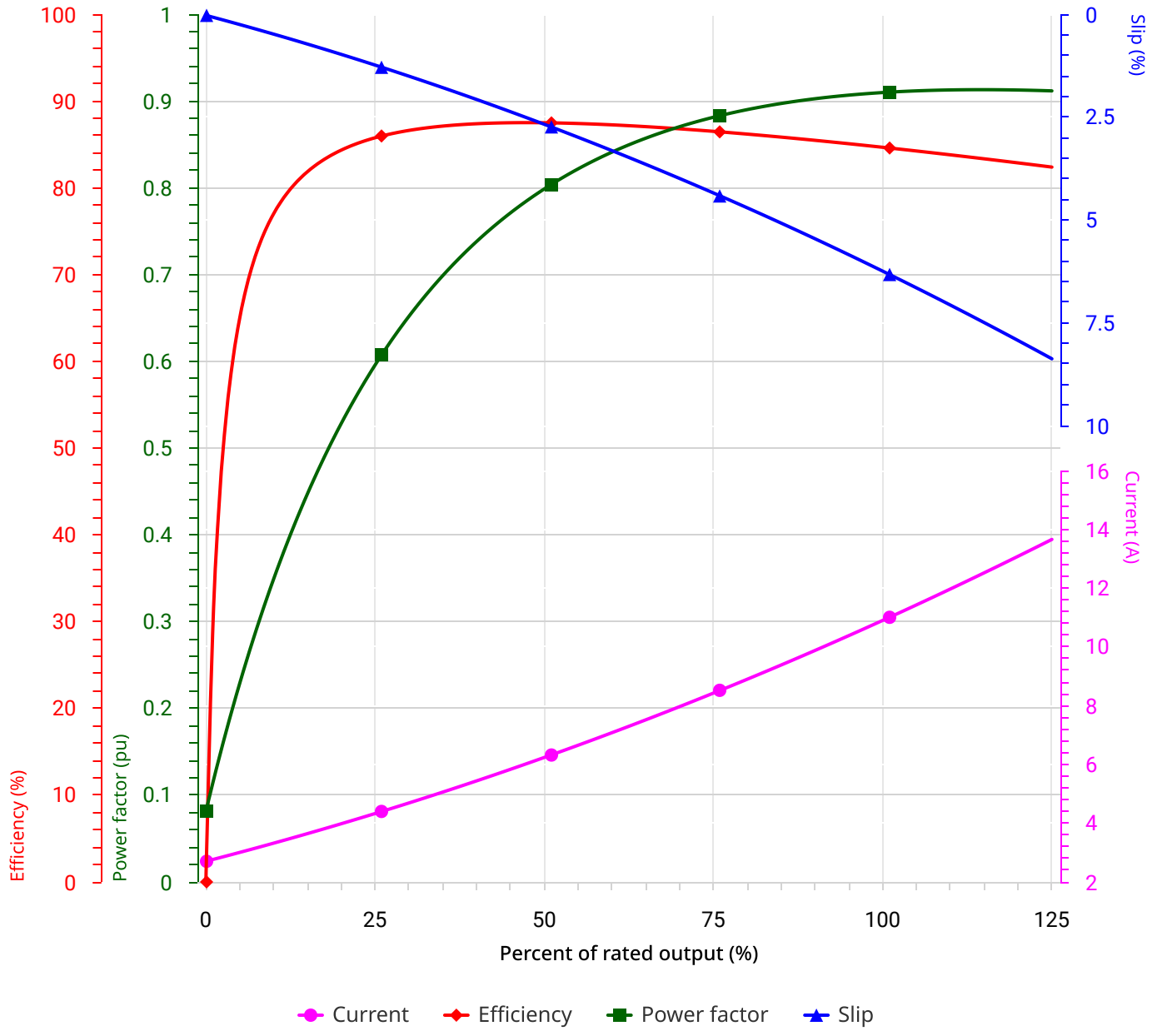
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12969044



Performance	: 7.5 HP (5.5 kW) 380V 50Hz 2P 182/4JM

Rated current	: 10.9 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 1.94 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2810 rpm	Design	: A

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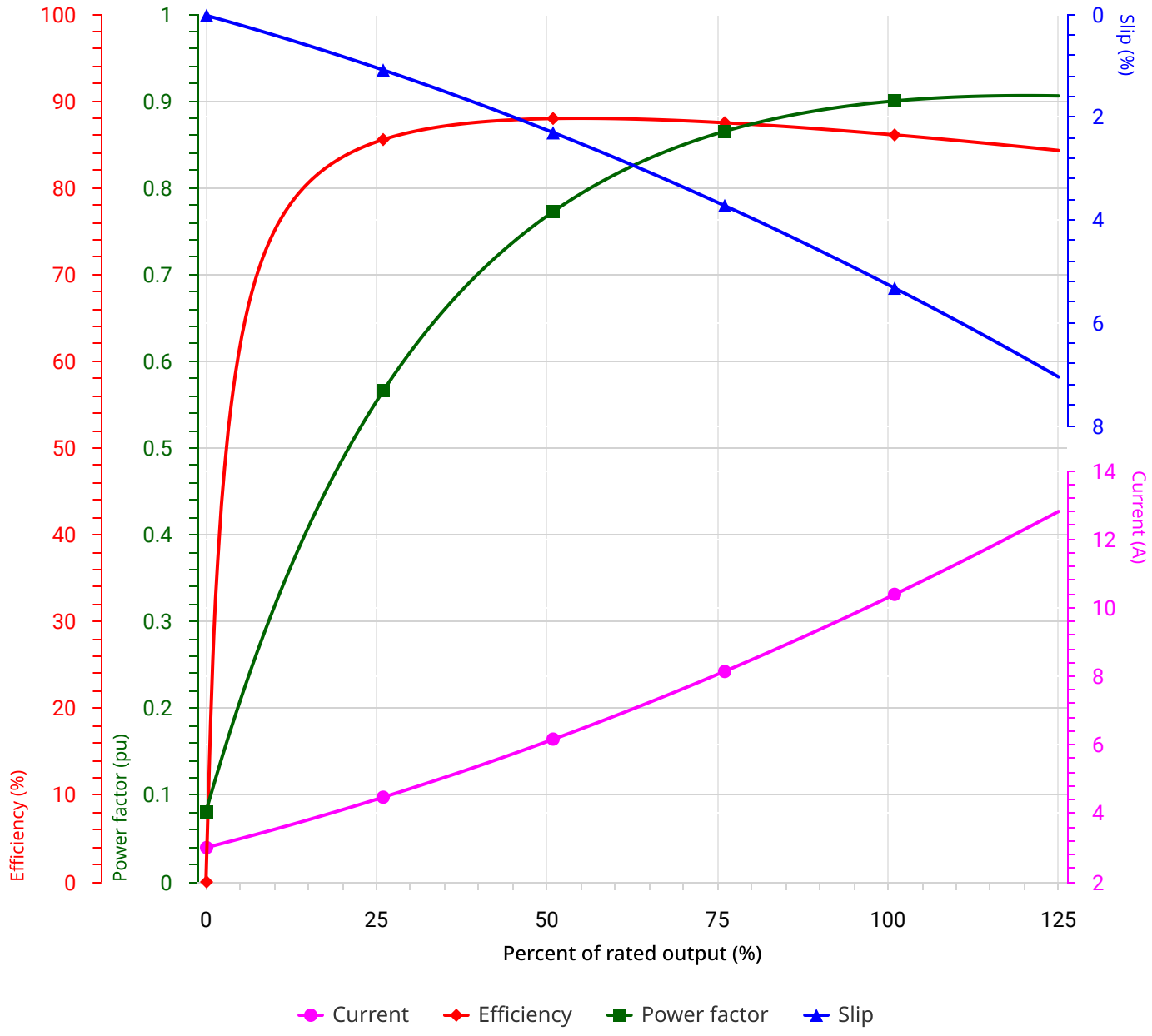
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12969044



Performance	: 7.5 HP (5.5 kW) 400V 50Hz 2P 182/4JM

Rated current	: 10.3 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 7.0 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.92 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2840 rpm	Design	: A

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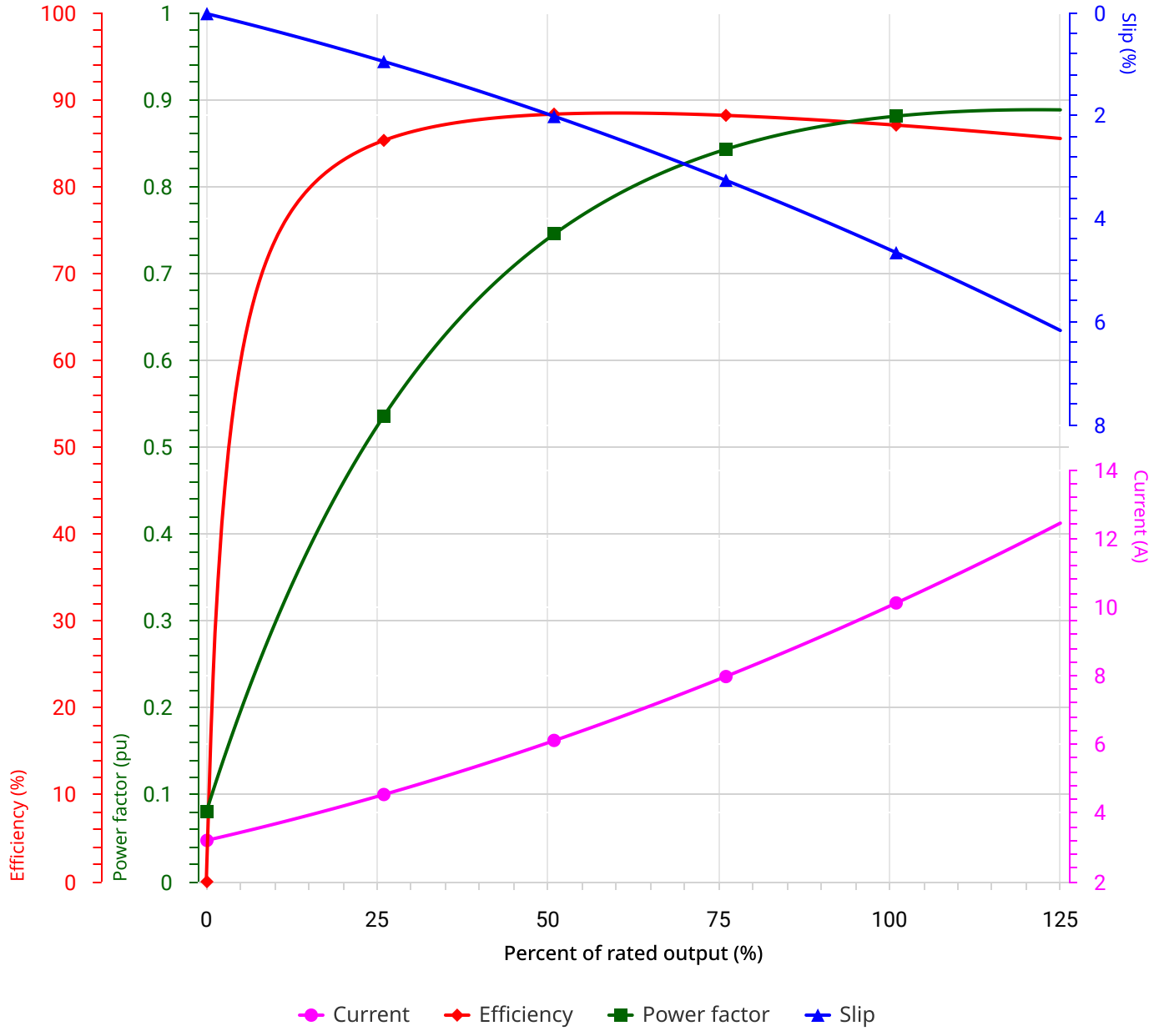
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Three Phase Induction Motor - Squirrel Cage

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Performance	: 7.5 HP (5.5 kW) 415V 50Hz 2P 182/4JM

Rated current	: 10.0 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 7.4 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 1.90 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2860 rpm	Design	: A

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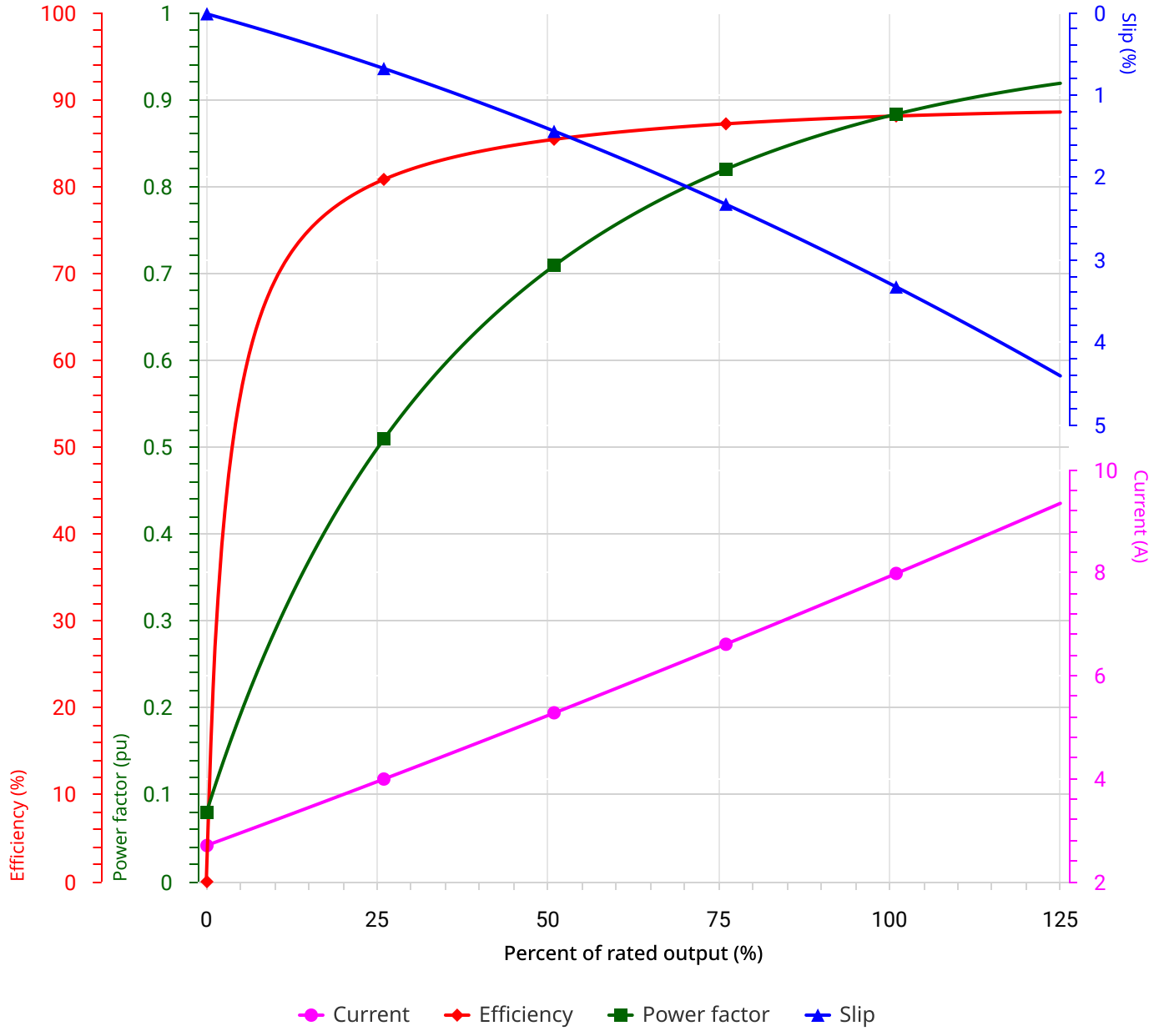
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 12969044



Performance	: 5.5 HP (4 kW) 380V 50Hz 2P 182/4JM

Rated current	: 7.84 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 8.3 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.38 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: A

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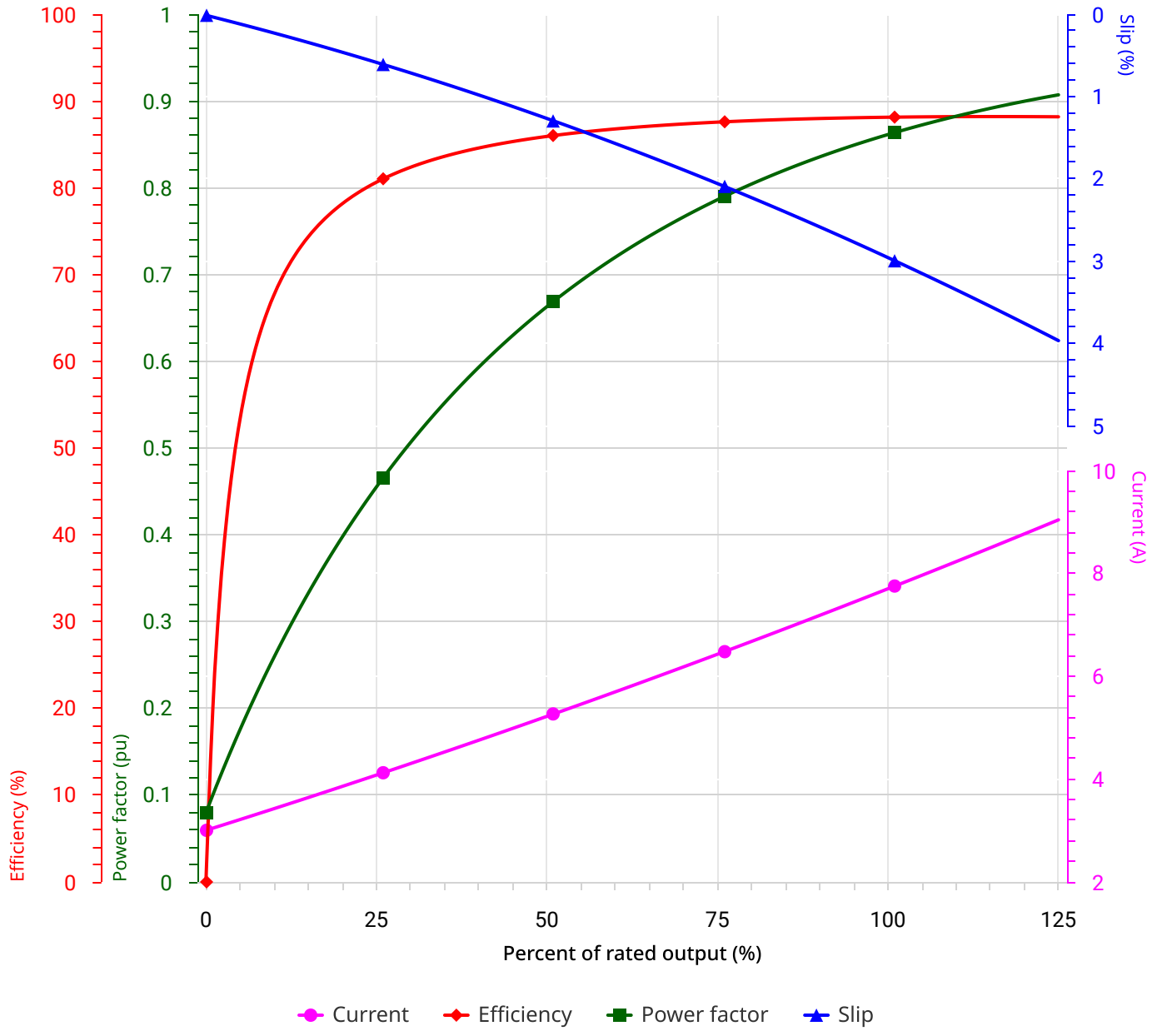
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Three Phase Induction Motor - Squirrel Cage

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Product code	: 12969044



Performance	: 5.5 HP (4 kW) 400V 50Hz 2P 182/4JM

Rated current	: 7.62 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 9.1 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 1.37 kgfm	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	: 1.00
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: A

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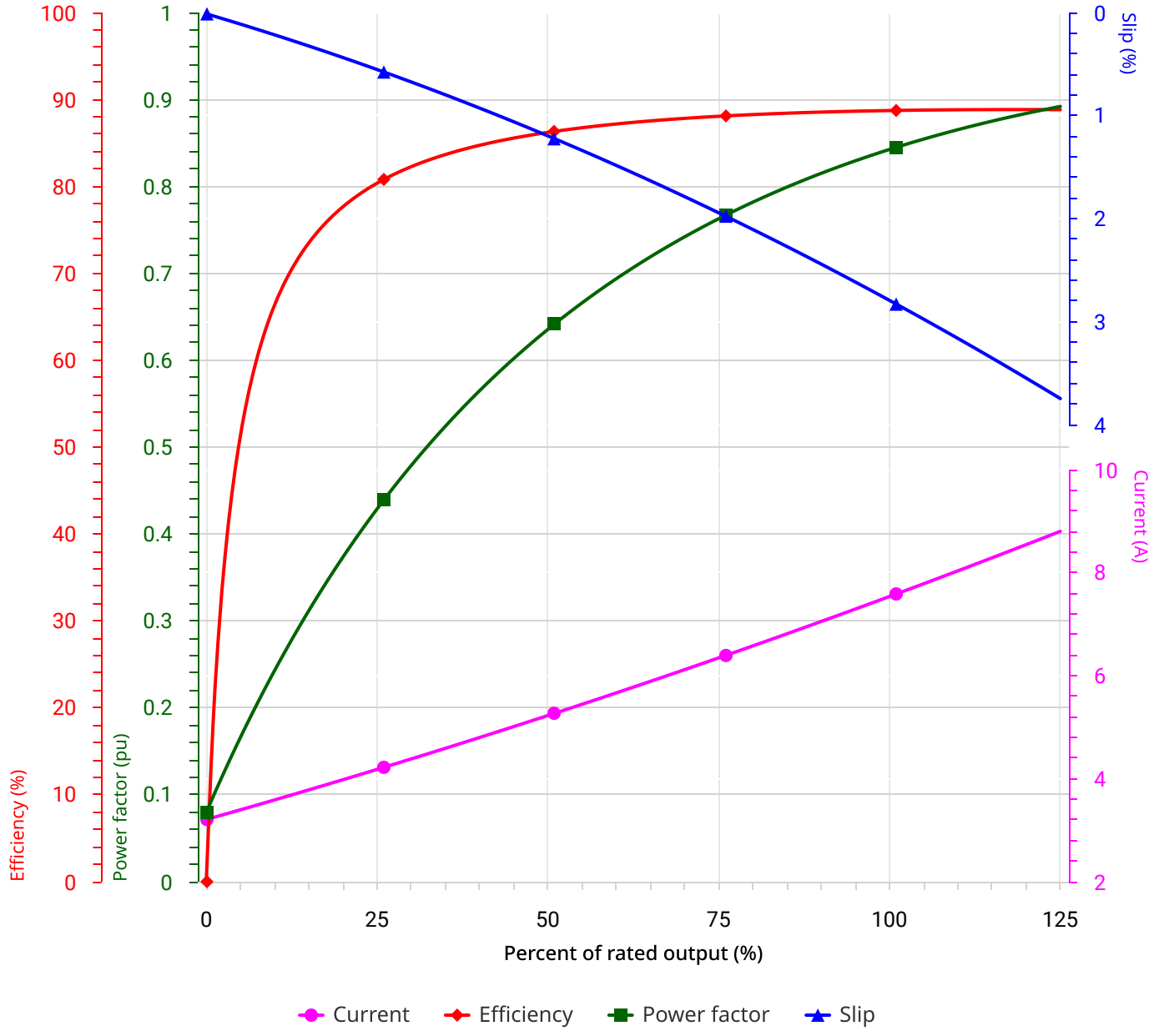
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Three Phase Induction Motor - Squirrel Cage

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Product code	: 12969044



Performance	: 5.5 HP (4 kW) 415V 50Hz 2P 182/4JM

Rated current	: 7.47 A	Moment of inertia (J)	: 0.0095 kgm²
LRC	: 9.6 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 1.37 kgfm	Insulation class	: F
Locked rotor torque	: 370 %	Service factor	: 1.00
Breakdown torque	: 430 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: A

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