DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11798490

Frame	: 213/5JM	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	: 74.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0268 kgm²
Design	: A		

Output		15 HP (11 kW)	15 HP (11 kW)	15 HP (11 kW)	15 HP (11 kW)	10 HP (7.5 kW)	10 HP (7.5 kW)	10 HP (7.5 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		34.9/17.4 A	20.9 A	19.9 A	19.3 A	14.9 A	14.7 A	16.5 A
L. R. Amperes		307/153 A	136 A	143 A	149 A	125 A	138 A	165 A
LRC		8.8 Code K	6.5 Code G	7.2 Code H	7.7 Code J	8.4 Code K	9.4 Code L	10.0 Code N
No load current		13.2/6.60 A	6.70 A	7.40 A	7.90 A	6.70 A	7.40 A	8.00 A
Rated speed		3535 rpm	2910 rpm	2920 rpm	2930 rpm	2950 rpm	2955 rpm	2960 rpm
Slip		1.81 %	3.00 %	2.67 %	2.33 %	1.67 %	1.50 %	1.33 %
Rated torque		3.08 kgfm	3.74 kgfm	3.73 kgfm	3.72 kgfm	2.46 kgfm	2.46 kgfm	2.45 kgfm
Locked rotor torque		280 %	200 %	220 %	240 %	300 %	320 %	340 %
Breakdown torque		350 %	270 %	300 %	300 %	340 %	380 %	420 %
Service factor		1.25	1.00	1.00	1.00	1.15	1.15	1.15
Temperature rise		80 K	105 K	105 K	105 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		7 s (hot) 13 s (cold)	4 s (hot) 7 s (cold)	5 s (hot) 9 s (cold)	5 s (hot) 9 s (cold)	11 s (hot) 20 s (cold)	10 s (hot) 18 s (cold)	8 s (hot) 14 s (cold)
Efficiency (%)	50%	89.0	88.5	89.0	89.5	89.5	89.0	88.0
	75%	90.5	89.0	89.5	90.0	90.1	90.1	90.1
	100%	91.0	89.0	89.7	90.0	90.1	90.1	90.1
Power Factor	Start	0.51	0.55	0.56	0.57	0.55	0.56	0.57
	50%	0.73	0.80	0.76	0.83	0.70	0.64	0.48
	75%	0.82	0.87	0.85	0.83	0.80	0.76	0.61
	100%	0.87	0.9	0.89	0.88	0.85	0.82	0.7
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		9.80	12.25	11.38	11.01	10.89	10.89	10.89
P2 (0,5;1,0)		7.95	9.94	9.23	8.94	8.84	8.84	8.84
P3 (0,25;1,0)		7.03	8.78	8.16	7.89	7.81	7.81	7.81
P4 (0,9;0,5)		5.18	6.47	6.01	5.82	5.75	5.75	5.75
P5 (0,5;0,5)		3.36	4.20	3.90	3.78	3.73	3.73	3.73
P6 (0,5;0,25)		2.34	2.92	2.71	2.62	2.59	2.59	2.59
P7 (0,25;0,25)		1.50	1.88	1.74	1.69	1.67	1.67	1.67

	Drive end	Non drive end
Bearing type	6309-Z-C3	6207-ZZ
Lubrication interval	19000 h	-
Lubricant amount	13 g	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 168 kgf
Max. compression : 242 kgf

Notes:

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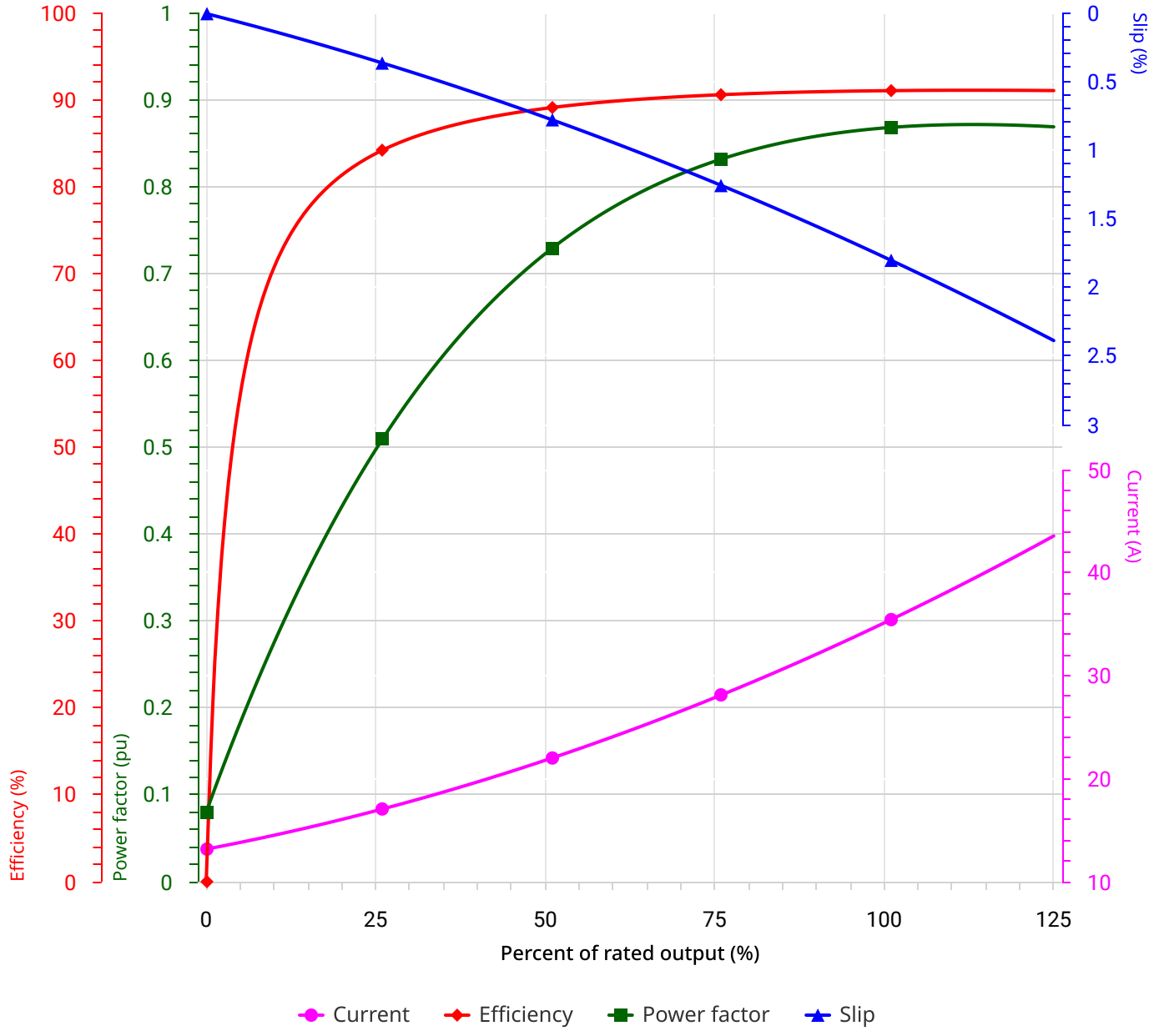
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11798490



Performance	: 15 HP (11 kW) 208/230/460V 60Hz 2P 213/5JM

Rated current	: 38.6/34.9/17.4 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 8.8 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3535 rpm	Design	: A

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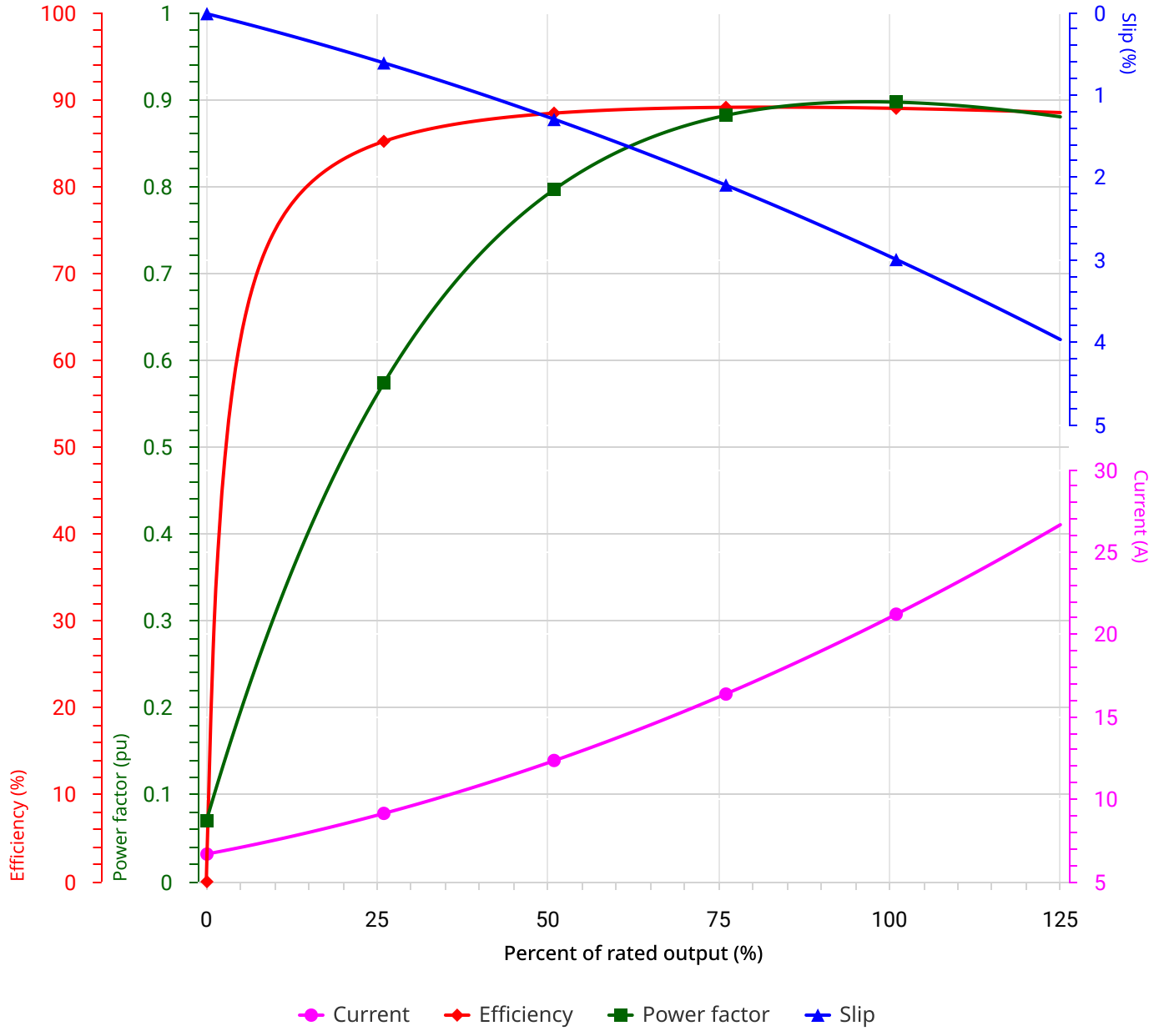
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11798490



Performance	: 15 HP (11 kW) 380V 50Hz 2P 213/5JM

Rated current	: 20.9 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 3.74 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 2910 rpm	Design	: A

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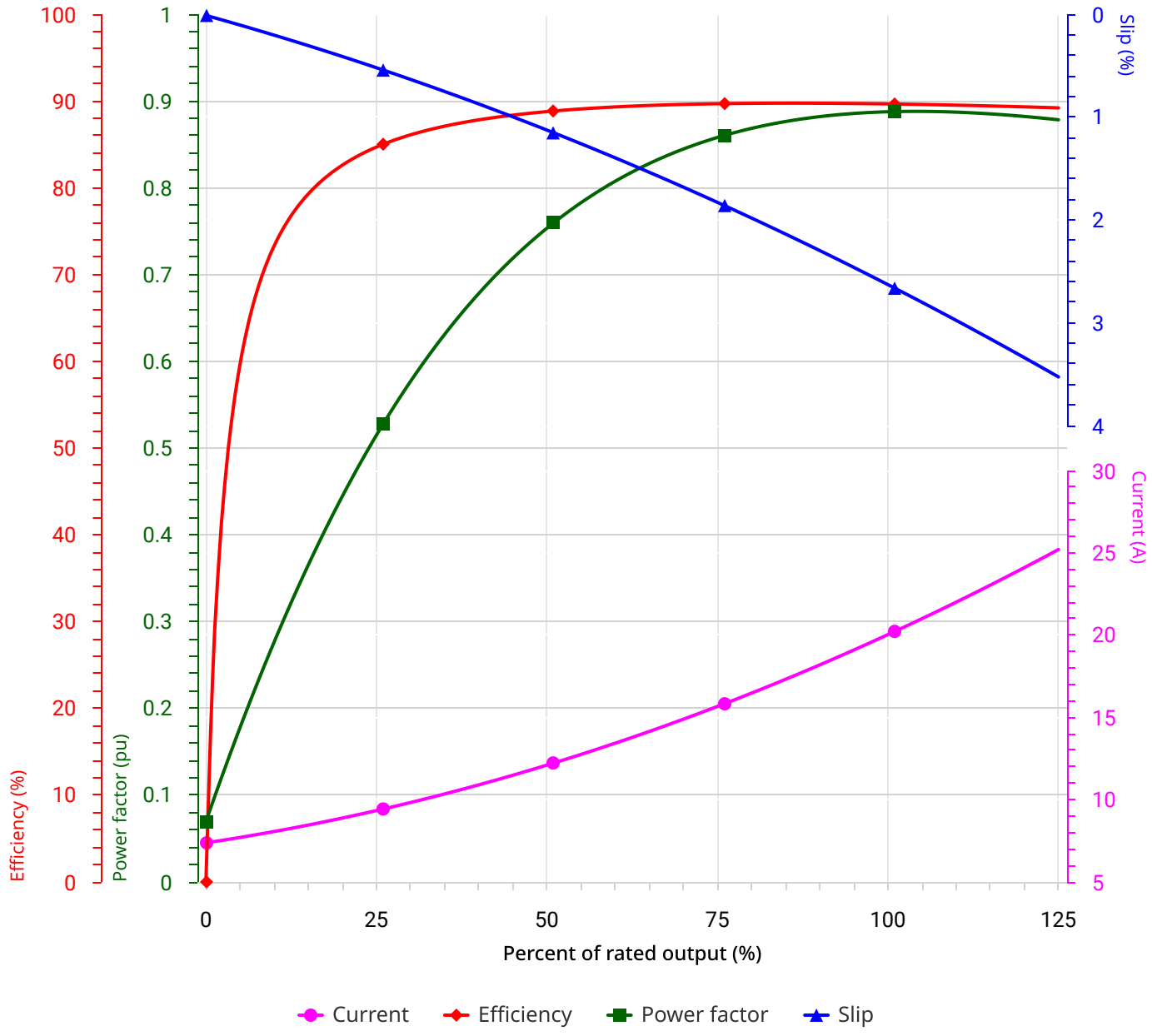
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 11798490



Performance	: 15 HP (11 kW) 400V 50Hz 2P 213/5JM

Rated current	: 19.9 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 7.2 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 3.73 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 105 K
Rated speed	: 2920 rpm	Design	: A

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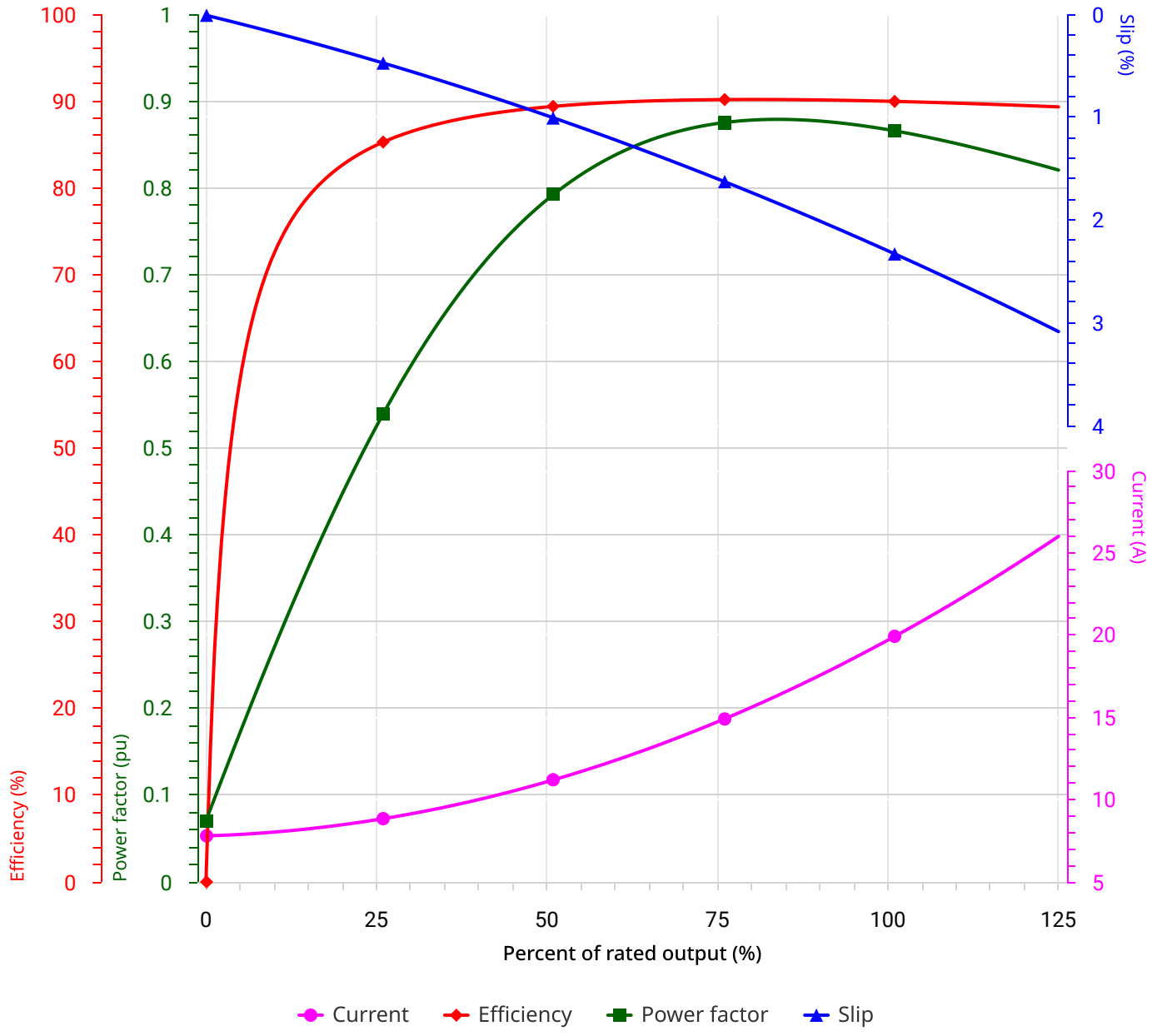
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Three Phase Induction Motor - Squirrel Cage

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Performance	: 15 HP (11 kW) 415V 50Hz 2P 213/5JM

Rated current	: 19.3 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 7.7 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 3.72 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: A

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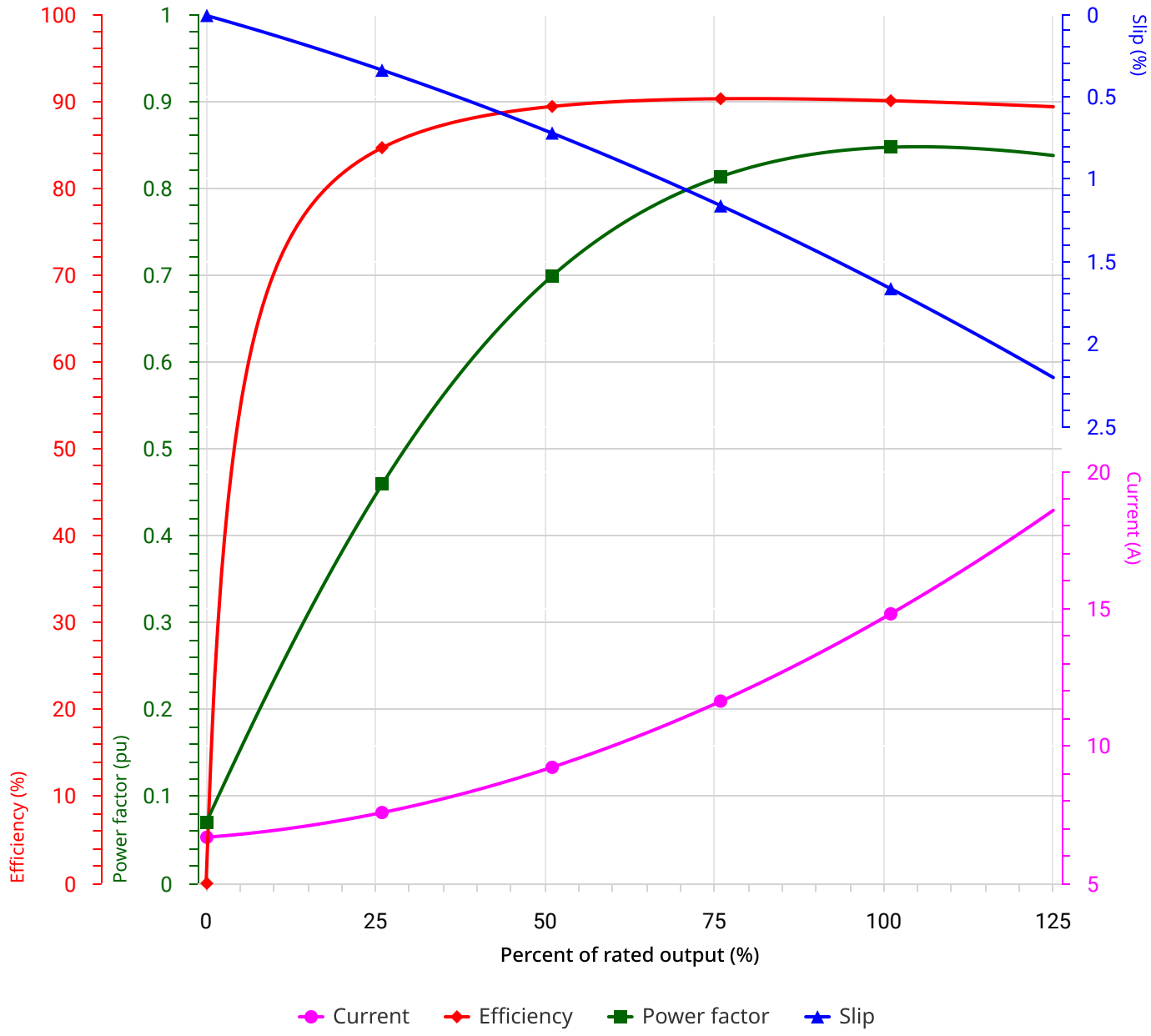
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 10 HP (7.5 kW) 380V 50Hz 2P 213/5JM

Rated current	: 14.9 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 8.4 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: A

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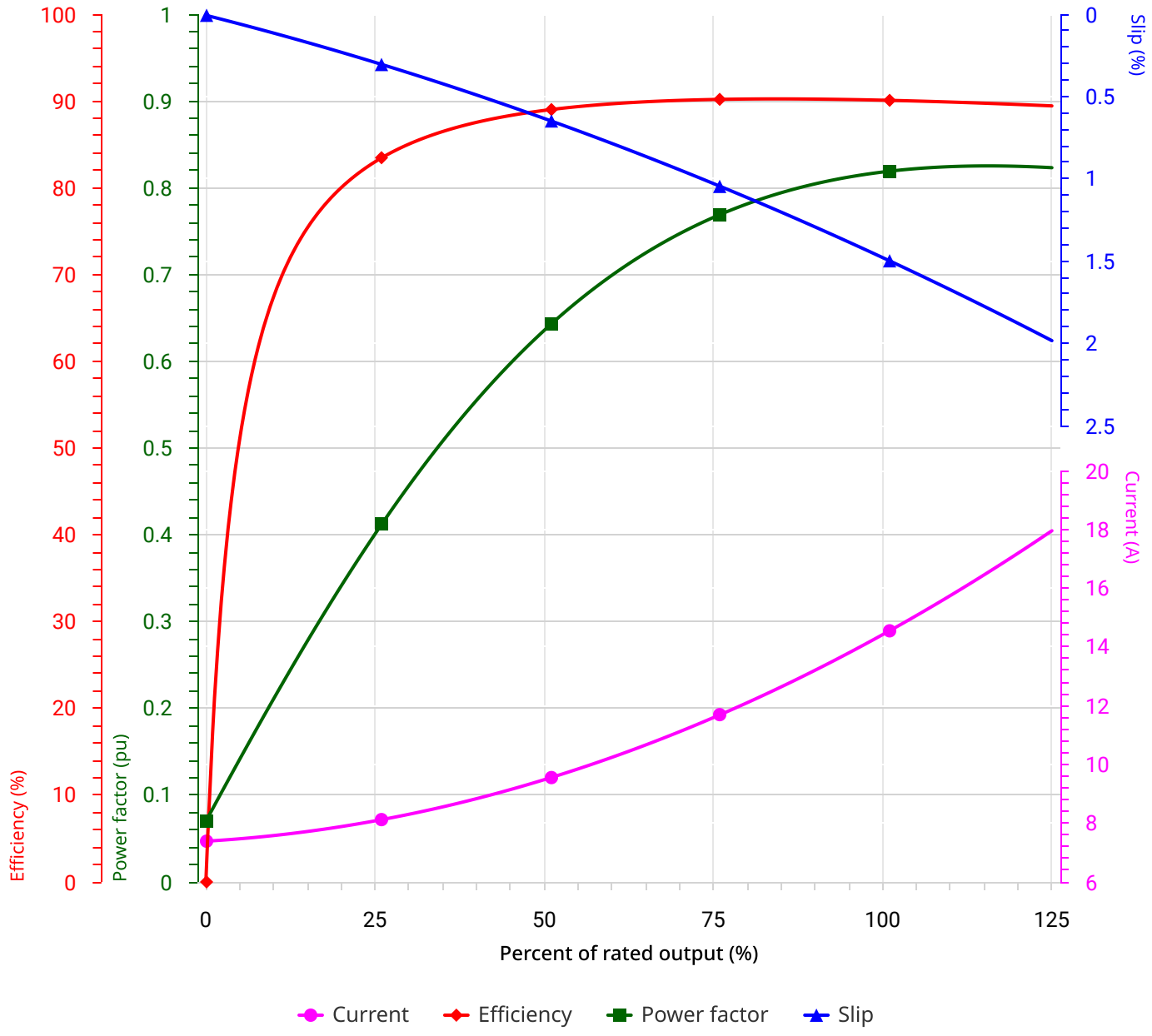
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Product code	: 11798490



Performance	: 10 HP (7.5 kW) 400V 50Hz 2P 213/5JM

Rated current	: 14.7 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 9.4 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.15
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: A

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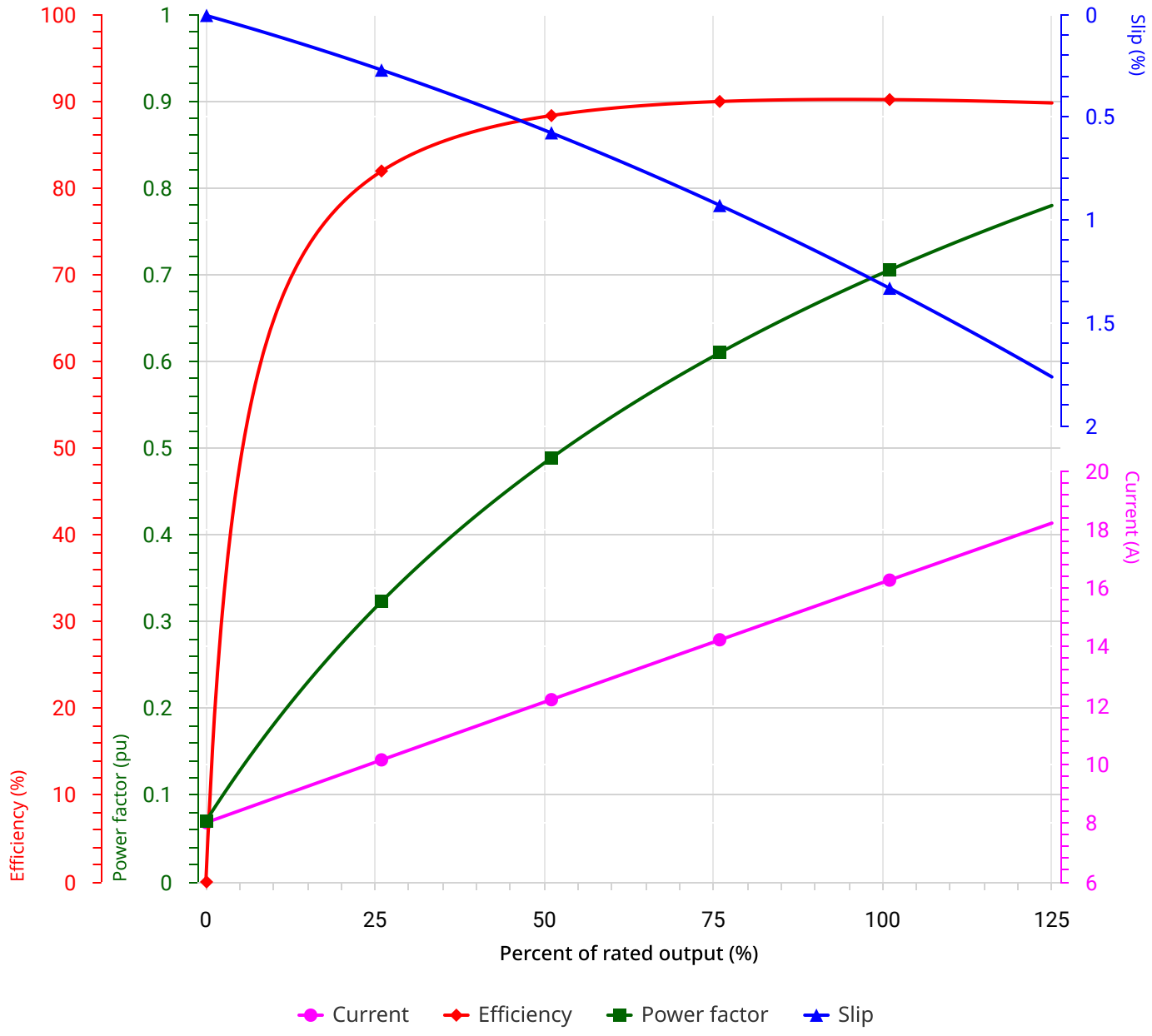
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Three Phase Induction Motor - Squirrel Cage

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Product line	: W22 Jet Pump Motors JM - Nema Premium Efficiency - Derating
Product code	: 11798490



Performance	: 10 HP (7.5 kW) 415V 50Hz 2P 213/5JM

Rated current	: 16.5 A	Moment of inertia (J)	: 0.0268 kgm²
LRC	: 10.0 Code N	Duty cycle	: Cont.(S1)
Rated torque	: 2.45 kgfm	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.15
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: A

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