DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 10781668

Frame	: 286JM	Cooling method	: IC01 - ODP
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	: 191 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.2063 kgm²
Design	: B		

Output		30 HP (22 kW)	30 HP (22 kW)	30 HP (22 kW)	30 HP (22 kW)	25 HP (18.5	25 HP (18.5	25 HP (18.5
Poles		4	4	4	4	4	4	4
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		69.8/34.9 A	42.9 A	41.4 A	40.1 A	35.7 A	34.7 A	34.3 A
L. R. Amperes		461/230 A	215 A	232 A	245 A	246 A	250 A	244 A
LRC		6.6 Code G	5.0 Code E	5.6 Code F	6.1 Code G	6.9 Code H	7.2 Code H	7.1 Code H
No load current		24.2/12.1 A	11.7 A	12.6 A	13.2 A	12.0 A	14.0 A	13.5 A
Rated speed		1770 rpm	1460 rpm	1465 rpm	1468 rpm	1470 rpm	1470 rpm	1475 rpm
Slip		1.67 %	2.67 %	2.33 %	2.13 %	2.00 %	2.00 %	1.67 %
Rated torque		12.3 kgfm	14.9 kgfm	14.9 kgfm	14.8 kgfm	12.3 kgfm	12.3 kgfm	12.3 kgfm
Locked rotor torque		240 %	170 %	190 %	210 %	220 %	250 %	270 %
Breakdown torque		270 %	200 %	220 %	240 %	240 %	270 %	300 %
Service factor		1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Noise level		63 dB(A)	-	-	-	-	-	-
Locked rotor time		14 s (hot) 25 s (cold)	17 s (hot) 31 s (cold)	15 s (hot) 27 s (cold)	14 s (hot) 25 s (cold)	17 s (hot) 31 s (cold)	15 s (hot) 27 s (cold)	14 s (hot) 25 s (cold)
Efficiency (%)	50%	93.6	91.7	91.7	91.7	92.2	92.2	92.2
	75%	94.1	92.4	92.4	92.4	92.6	92.6	92.6
	100%	94.1	91.7	92.4	93.0	92.6	92.6	92.6
Power Factor	Start	0.51	0.00	0.00	0.00	0.00	0.00	0.00
	50%	0.70	0.74	0.70	0.66	0.70	0.66	0.63
	75%	0.80	0.83	0.80	0.78	0.80	0.78	0.75
	100%	0.84	0.85	0.83	0.82	0.85	0.83	0.81
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		6.15	6.15	6.15	6.15	6.15	6.15	6.15
P2 (0,5;1,0)		5.24	5.24	5.24	5.24	5.24	5.24	5.24
P3 (0,25;1,0)		4.70	4.70	4.70	4.70	4.70	4.70	4.70
P4 (0,9;0,5)		2.77	2.77	2.77	2.77	2.77	2.77	2.77
P5 (0,5;0,5)		1.92	1.92	1.92	1.92	1.92	1.92	1.92
P6 (0,5;0,25)		1.18	1.18	1.18	1.18	1.18	1.18	1.18
P7 (0,25;0,25)		0.81	0.81	0.81	0.81	0.81	0.81	0.81

	Drive end	Non drive end
Bearing type	6311-Z-C3	6211-Z-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	18 g	11 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 426 kgf
Max. compression : 617 kgf

Notes:

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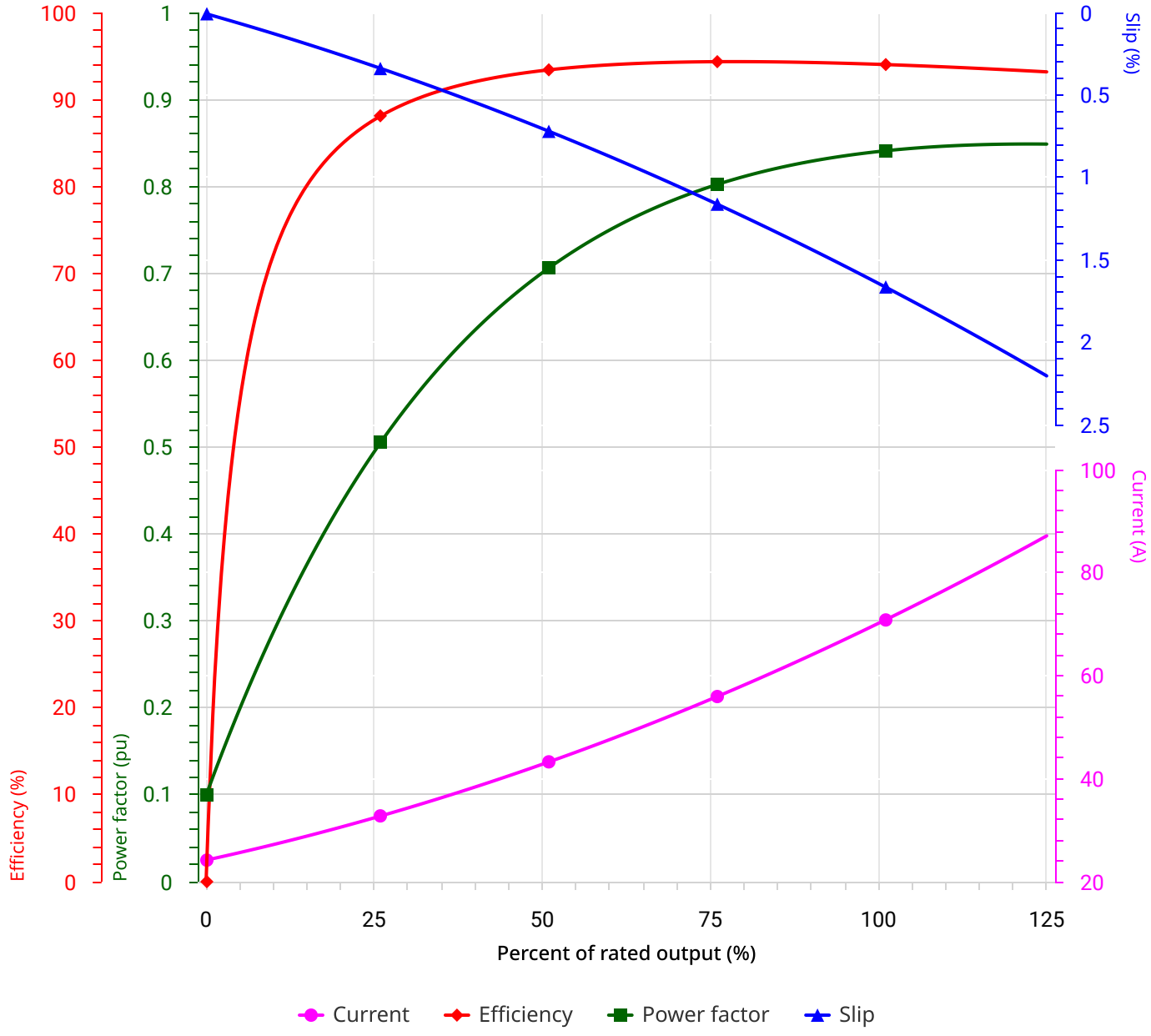
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 10781668



Performance	: 30 HP (22 kW) 208/230/460V 60Hz 4P 286JM

Rated current	: 78.3/69.8/34.9 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 6.6 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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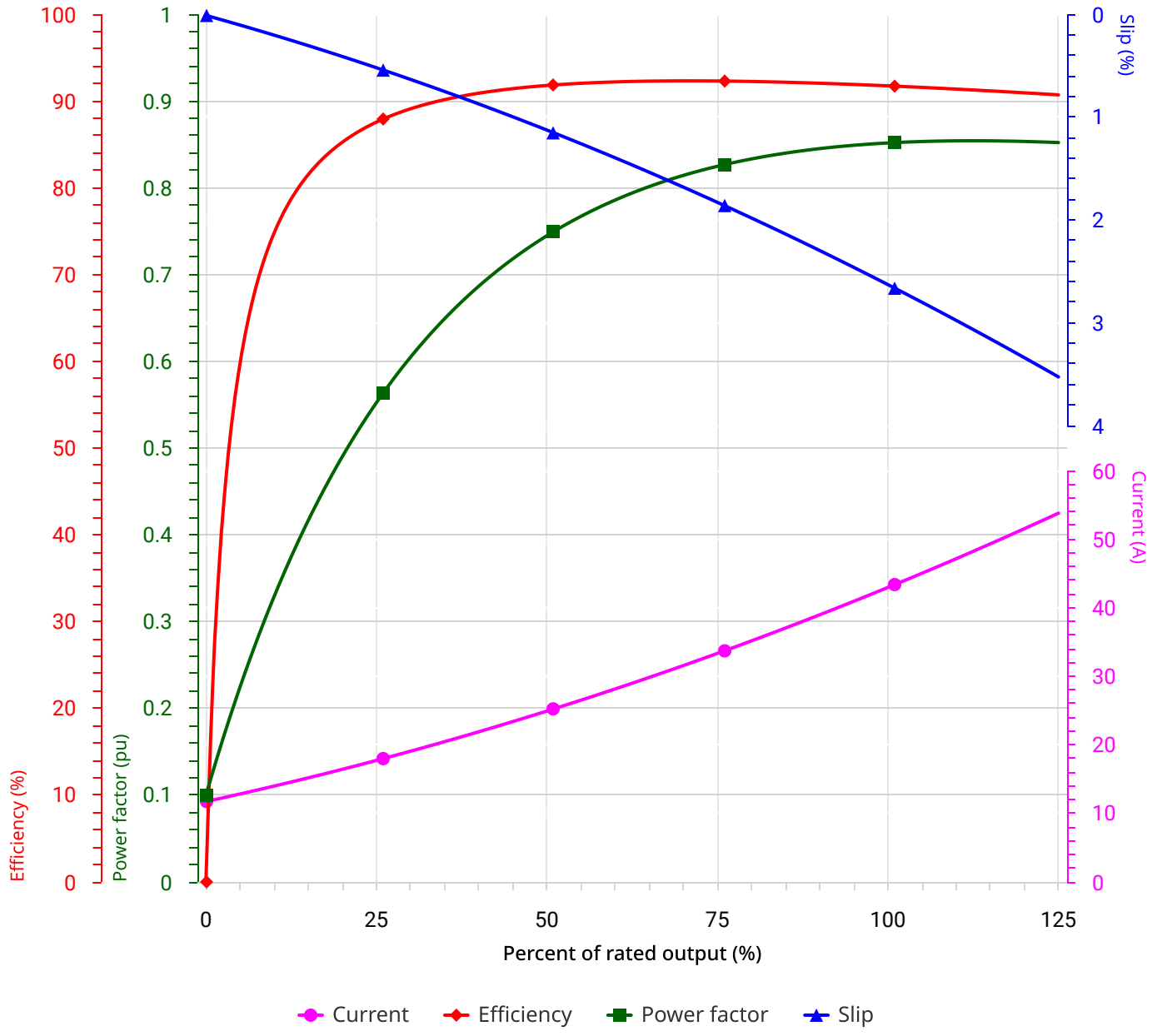
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 10781668



Performance	: 30 HP (22 kW) 380V 50Hz 4P 286JM

Rated current	: 42.9 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 5.0 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 14.9 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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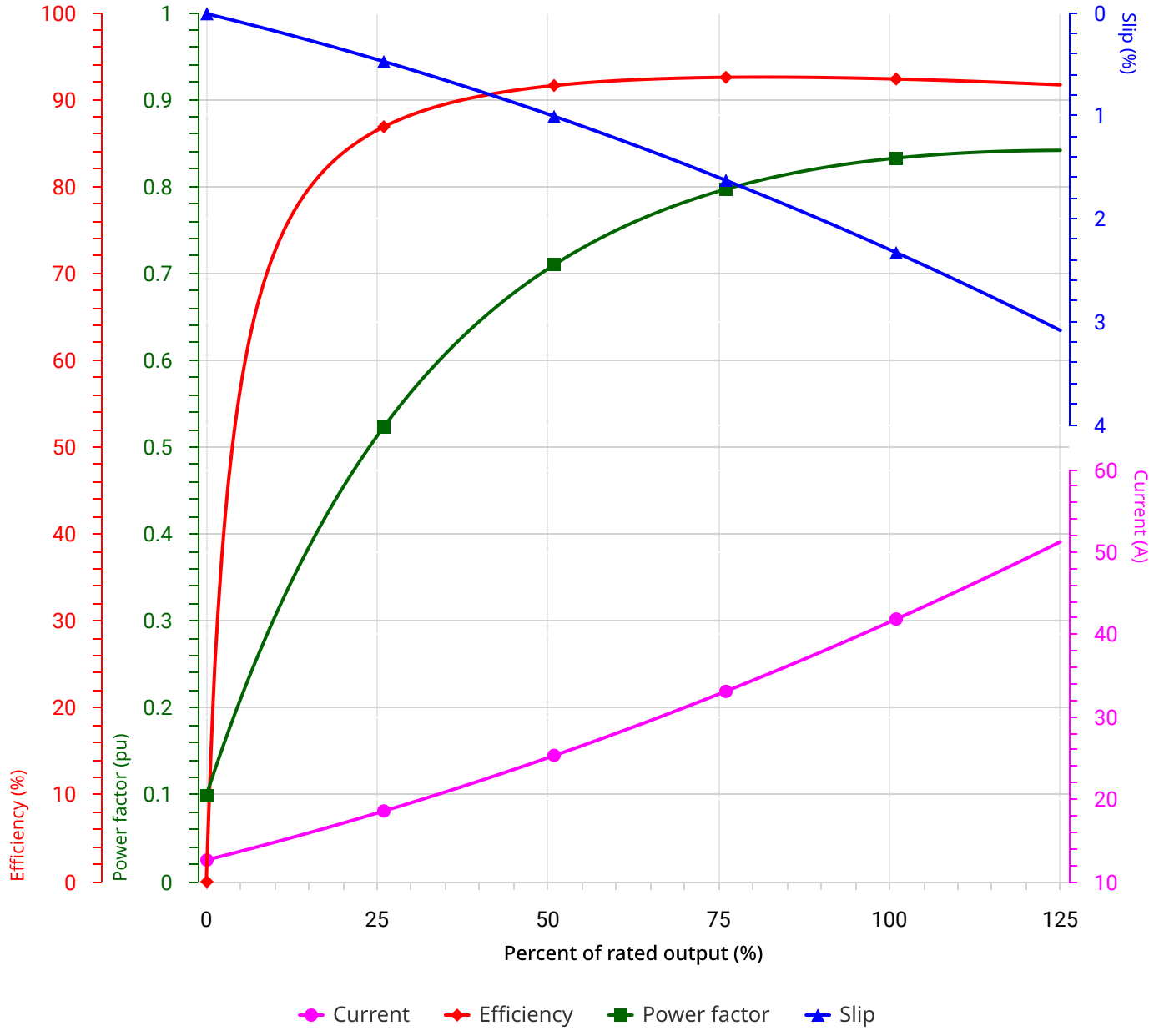
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 10781668



Performance	: 30 HP (22 kW) 400V 50Hz 4P 286JM

Rated current	: 41.4 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 5.6 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 14.9 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: A

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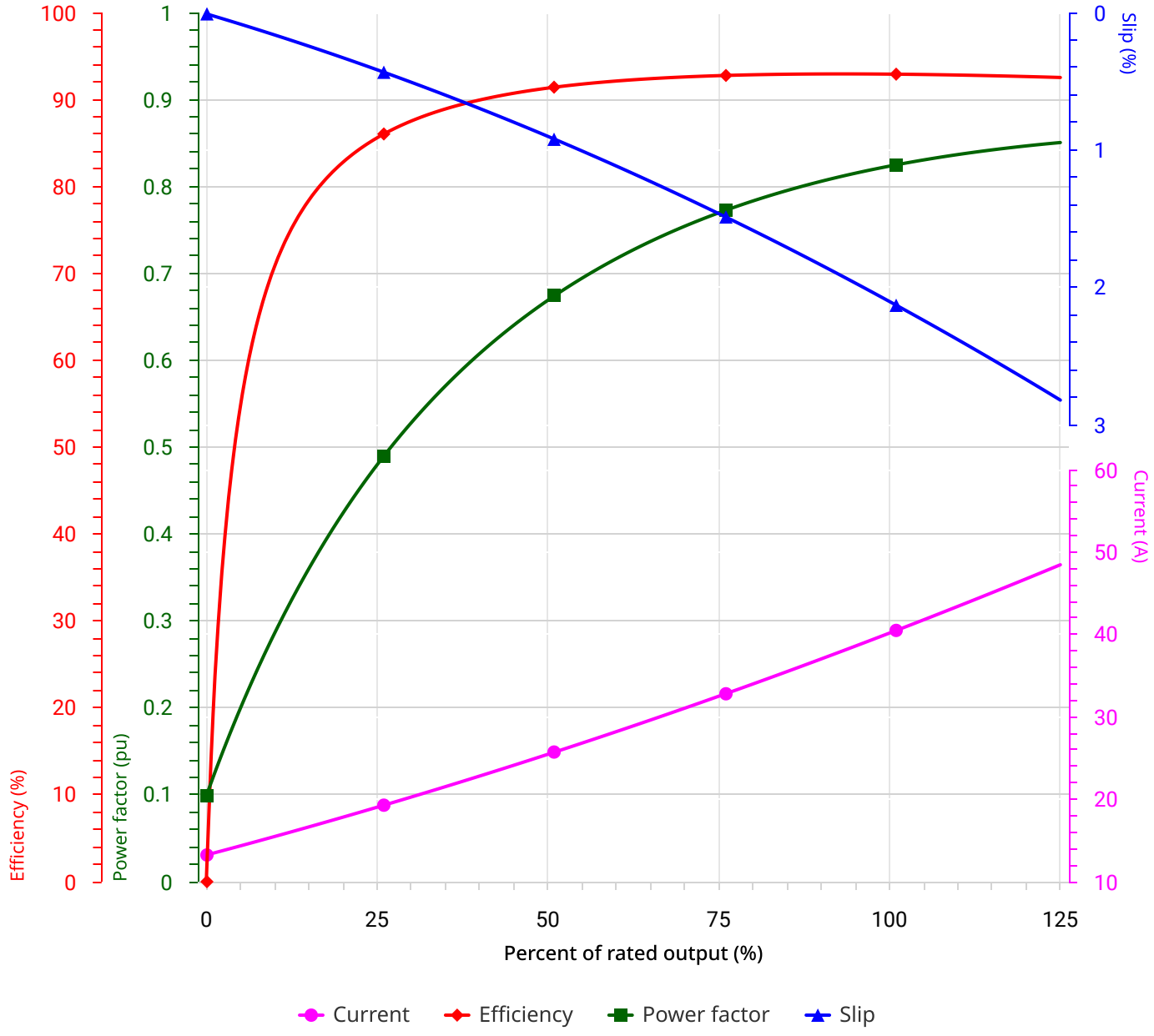
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 10781668



Performance	: 30 HP (22 kW) 415V 50Hz 4P 286JM

Rated current	: 40.1 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 6.1 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 14.8 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1468 rpm	Design	: A

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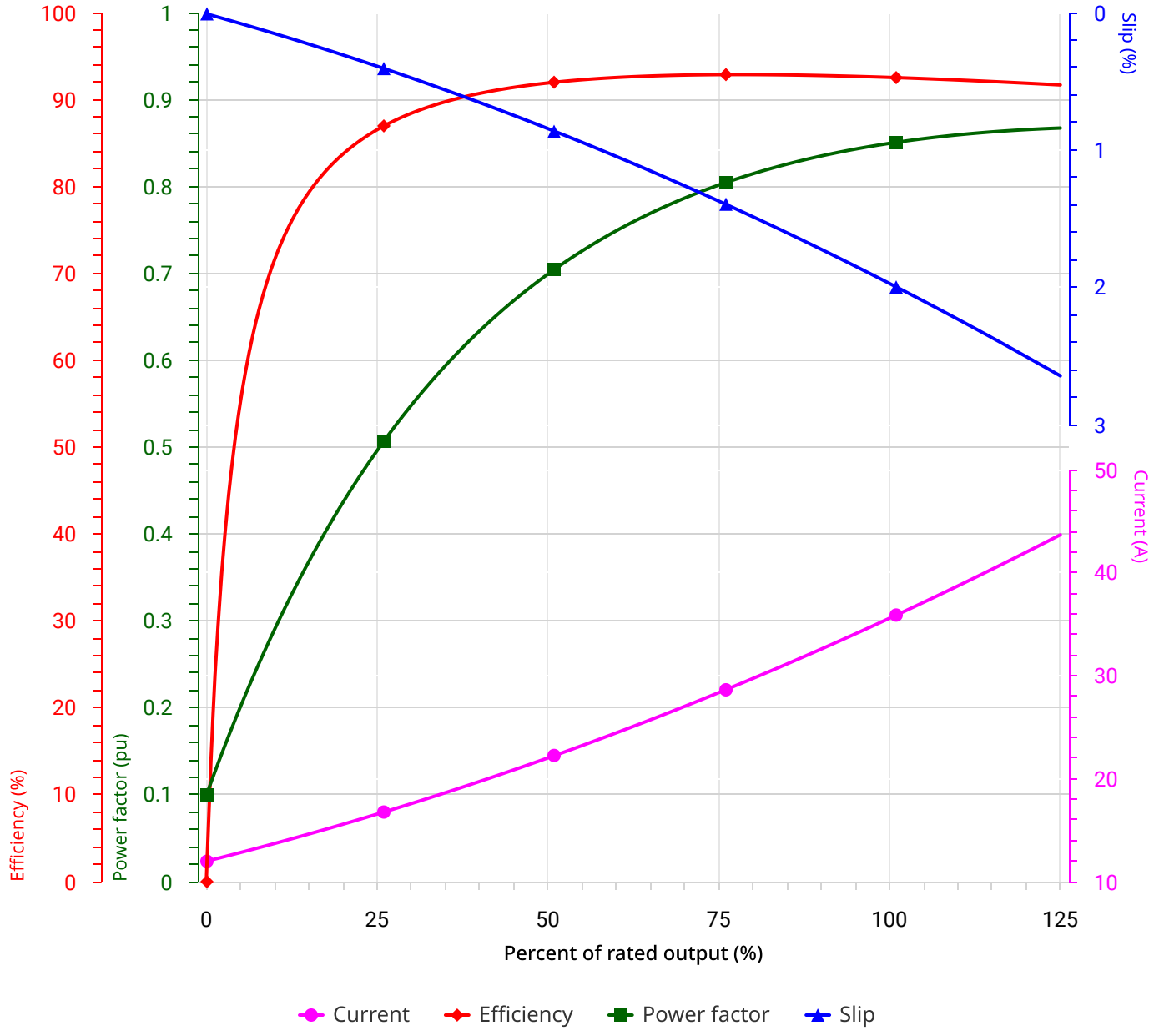
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 10781668



Performance	: 25 HP (18.5 kW) 380V 50Hz 4P 286JM

Rated current	: 35.7 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 6.9 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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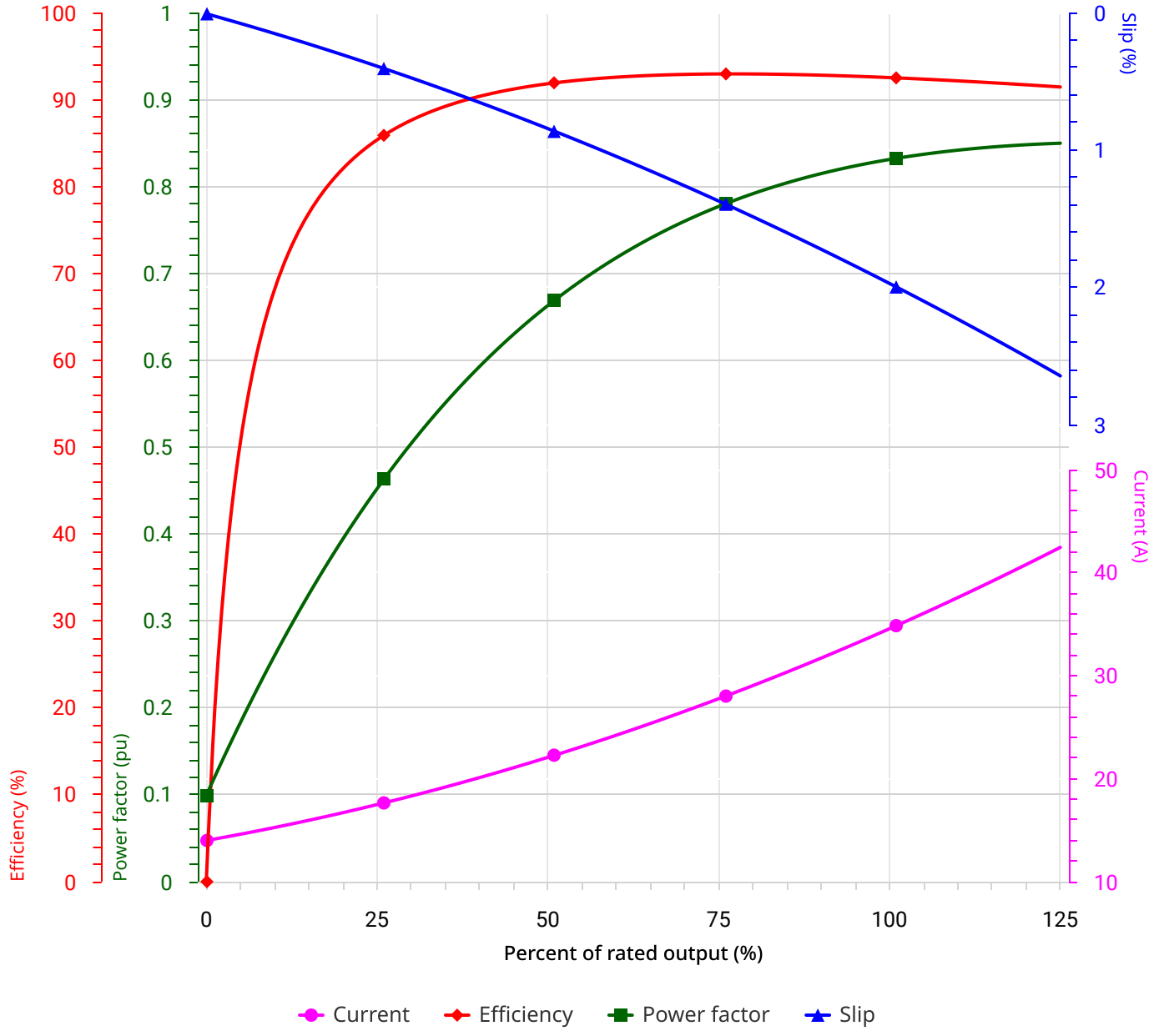
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 10781668



Performance	: 25 HP (18.5 kW) 400V 50Hz 4P 286JM

Rated current	: 34.7 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 7.2 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: A

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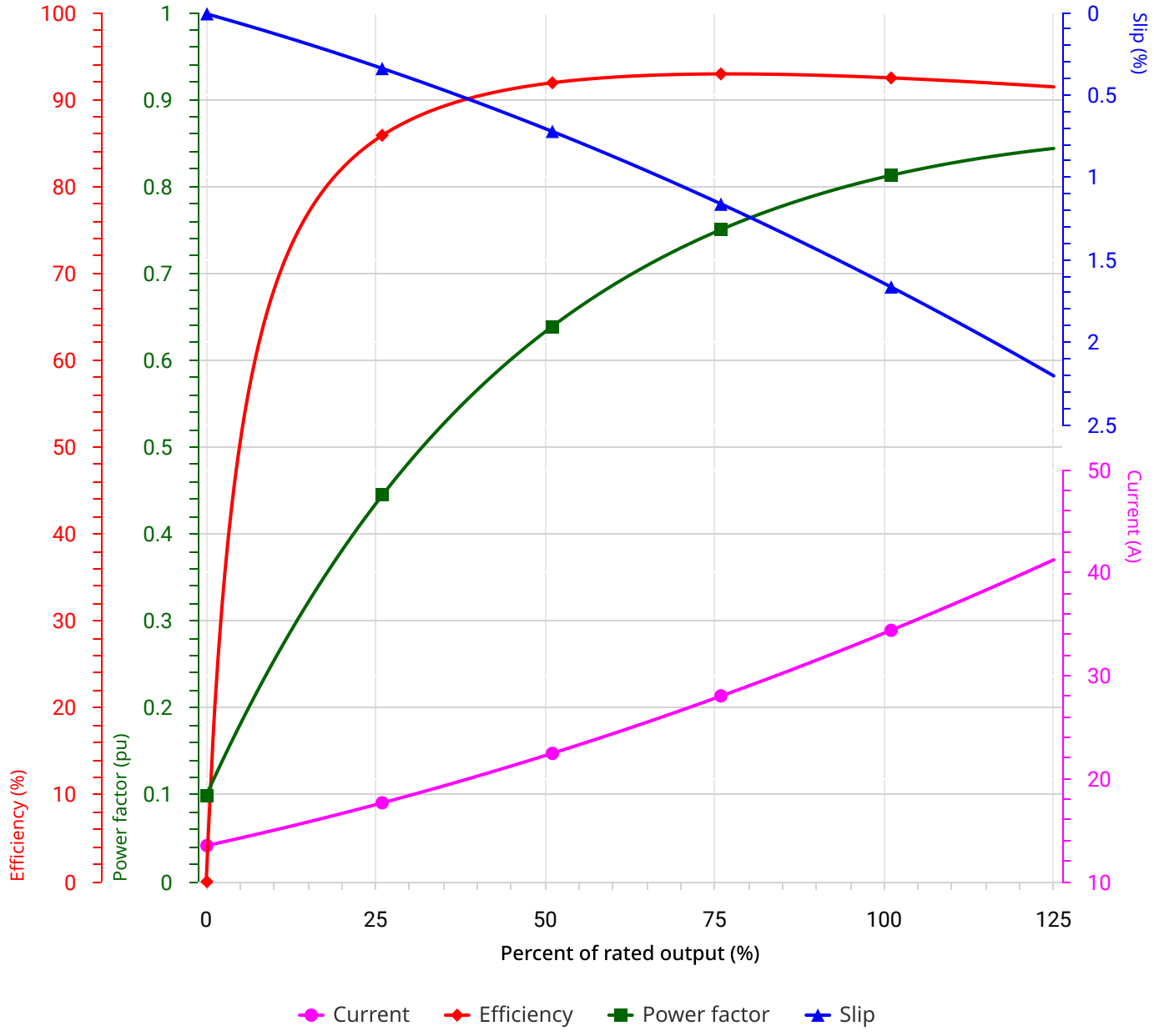
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 10781668



Performance	: 25 HP (18.5 kW) 415V 50Hz 4P 286JM

Rated current	: 34.3 A	Moment of inertia (J)	: 0.2063 kgm²
LRC	: 7.1 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: A

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