DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 11833190

Frame	: 284JM	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: B14R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 154 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.0795 kgm²
Design	: B		

Output		30 HP (22 kW)	25 HP (18.5	25 HP (18.5	25 HP (18.5	30 HP (22 kW)	30 HP (22 kW)	30 HP (22 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		70.0/35.0 A	35.0 A	34.0 A	33.6 A	42.4 A	40.9 A	40.2 A
L. R. Amperes		441/221 A	231 A	238 A	225 A	225 A	237 A	261 A
LRC		6.3 Code G	6.6 Code G	7.0 Code H	6.7 Code H	5.3 Code E	5.8 Code F	6.5 Code G
No load current		25.8/12.9 A	12.0 A	13.0 A	14.0 A	11.5 A	12.5 A	14.0 A
Rated speed		3550 rpm	2945 rpm	2950 rpm	2955 rpm	2925 rpm	2935 rpm	2945 rpm
Slip		1.39 %	1.83 %	1.67 %	1.50 %	2.50 %	2.17 %	1.83 %
Rated torque		6.13 kgfm	6.16 kgfm	6.15 kgfm	6.14 kgfm	7.44 kgfm	7.42 kgfm	7.39 kgfm
Locked rotor torque		180 %	170 %	190 %	200 %	160 %	180 %	200 %
Breakdown torque		260 %	240 %	260 %	270 %	180 %	200 %	220 %
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		72 dB(A)	-	-	-	-	-	-
Locked rotor time		10 s (hot) 18 s (cold)	13 s (hot) 23 s (cold)	12 s (hot) 22 s (cold)	11 s (hot) 20 s (cold)	13 s (hot) 23 s (cold)	12 s (hot) 22 s (cold)	11 s (hot) 20 s (cold)
Efficiency (%)	50%	90.2	89.7	89.8	89.8	90.8	90.0	91.0
	75%	91.7	90.7	90.8	90.8	90.8	90.2	91.0
	100%	91.7	92.4	92.4	92.4	89.5	90.2	90.7
Power Factor	Start	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	50%	0.73	0.75	0.70	0.66	0.80	0.77	0.71
	75%	0.82	0.83	0.80	0.77	0.86	0.83	0.81
	100%	0.86	0.87	0.85	0.83	0.88	0.86	0.84
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		8.72	8.72	8.72	8.72	8.72	8.72	8.72
P2 (0,5;1,0)		7.46	7.46	7.46	7.46	7.46	7.46	7.46
P3 (0,25;1,0)		7.08	7.08	7.08	7.08	7.08	7.08	7.08
P4 (0,9;0,5)		4.20	4.20	4.20	4.20	4.20	4.20	4.20
P5 (0,5;0,5)		2.81	2.81	2.81	2.81	2.81	2.81	2.81
P6 (0,5;0,25)		1.80	1.80	1.80	1.80	1.80	1.80	1.80
P7 (0,25;0,25)		1.24	1.24	1.24	1.24	1.24	1.24	1.24

	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 : 157 kgf
Max. compression : 311 kgf

Notes:

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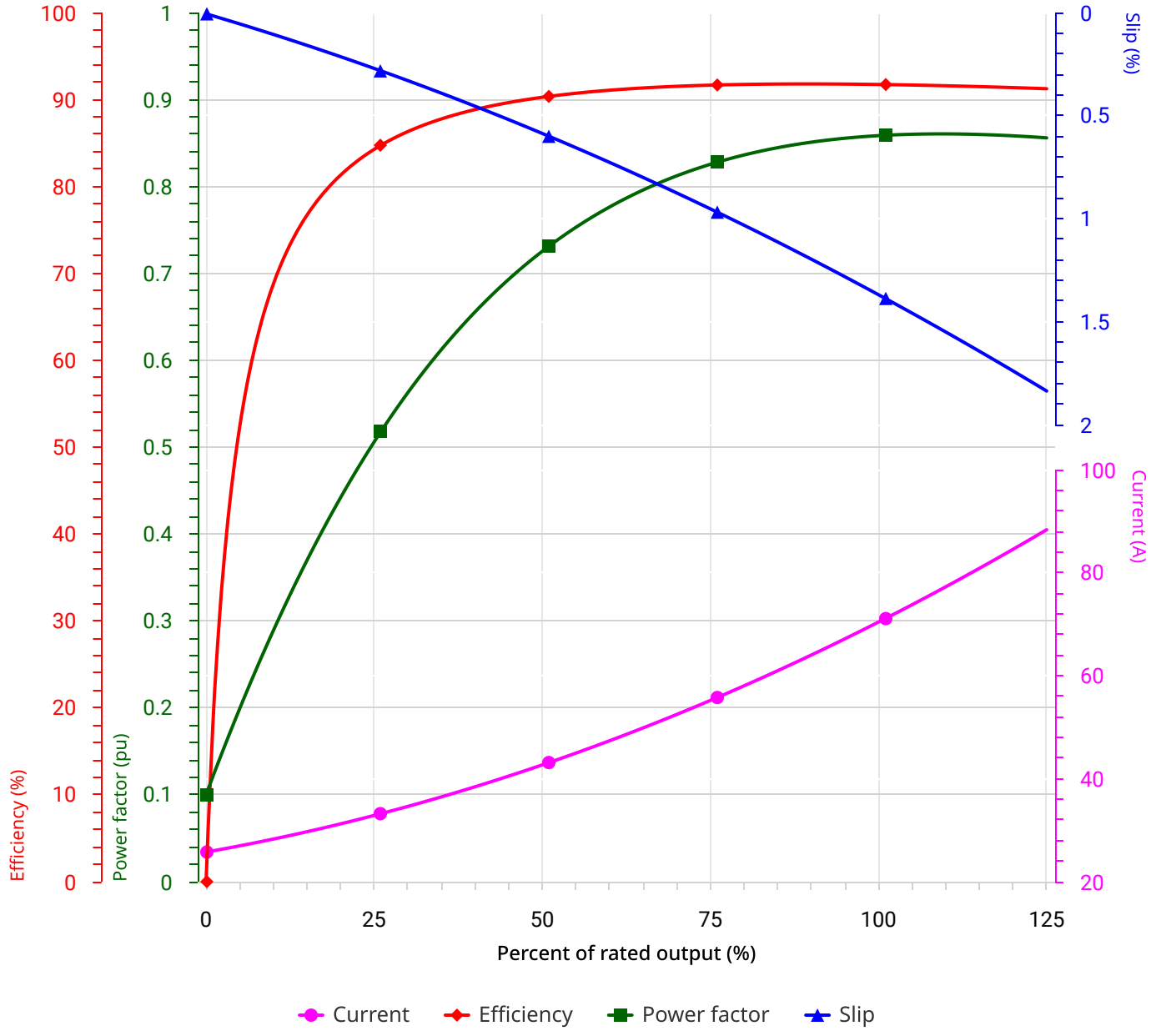
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 11833190



Performance	: 30 HP (22 kW) 208/230/460V 60Hz 2P 284JM

Rated current	: 76.7/70.0/35.0 A	Moment of inertia (J)	: 0.0795 kgm²
LRC	: 6.3 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.13 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: B

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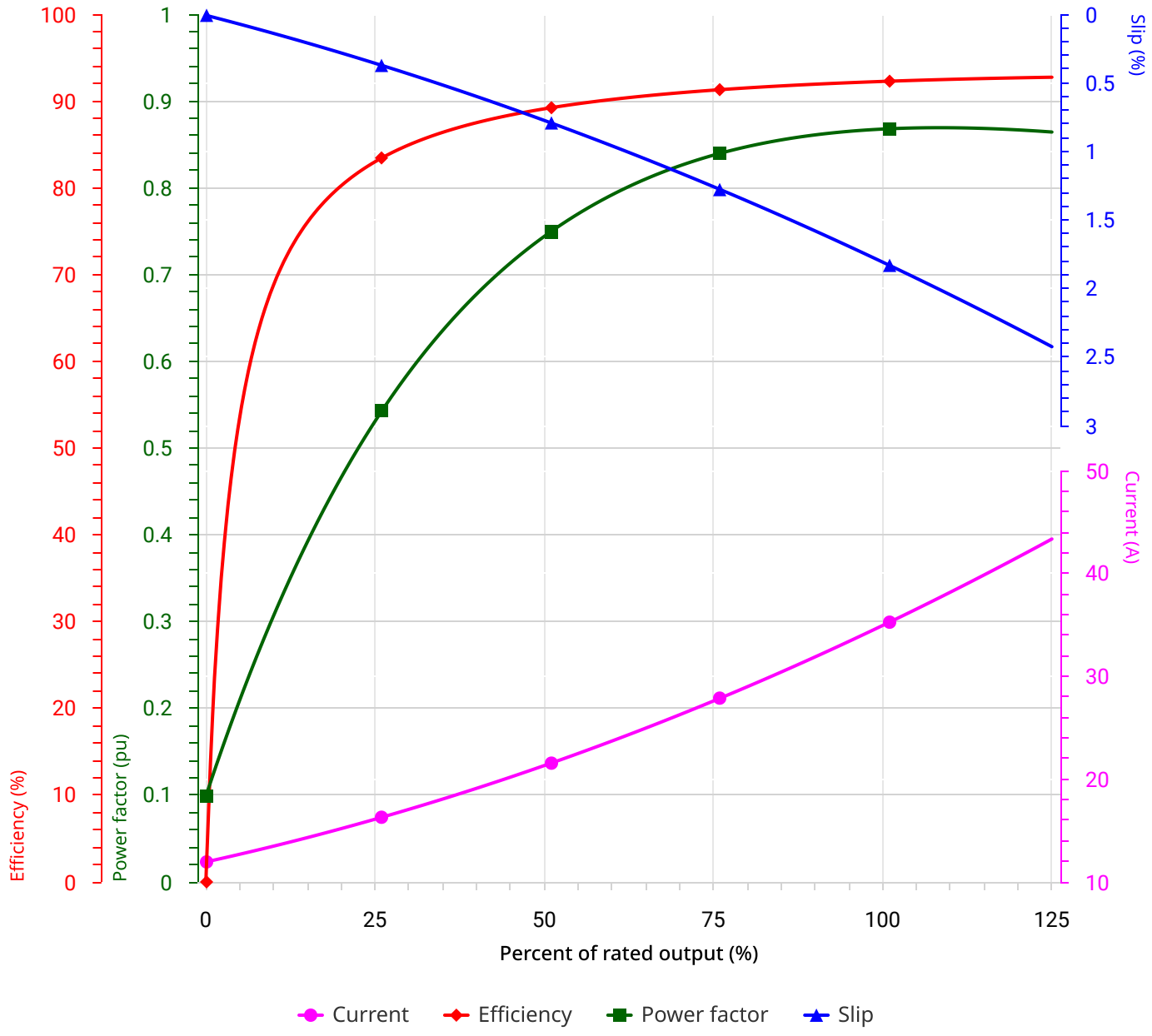
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 11833190



Performance	: 25 HP (18.5 kW) 380V 50Hz 2P 284JM

Rated current	: 35.0 A	Moment of inertia (J)	: 0.0795 kgm²
LRC	: 6.6 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 6.16 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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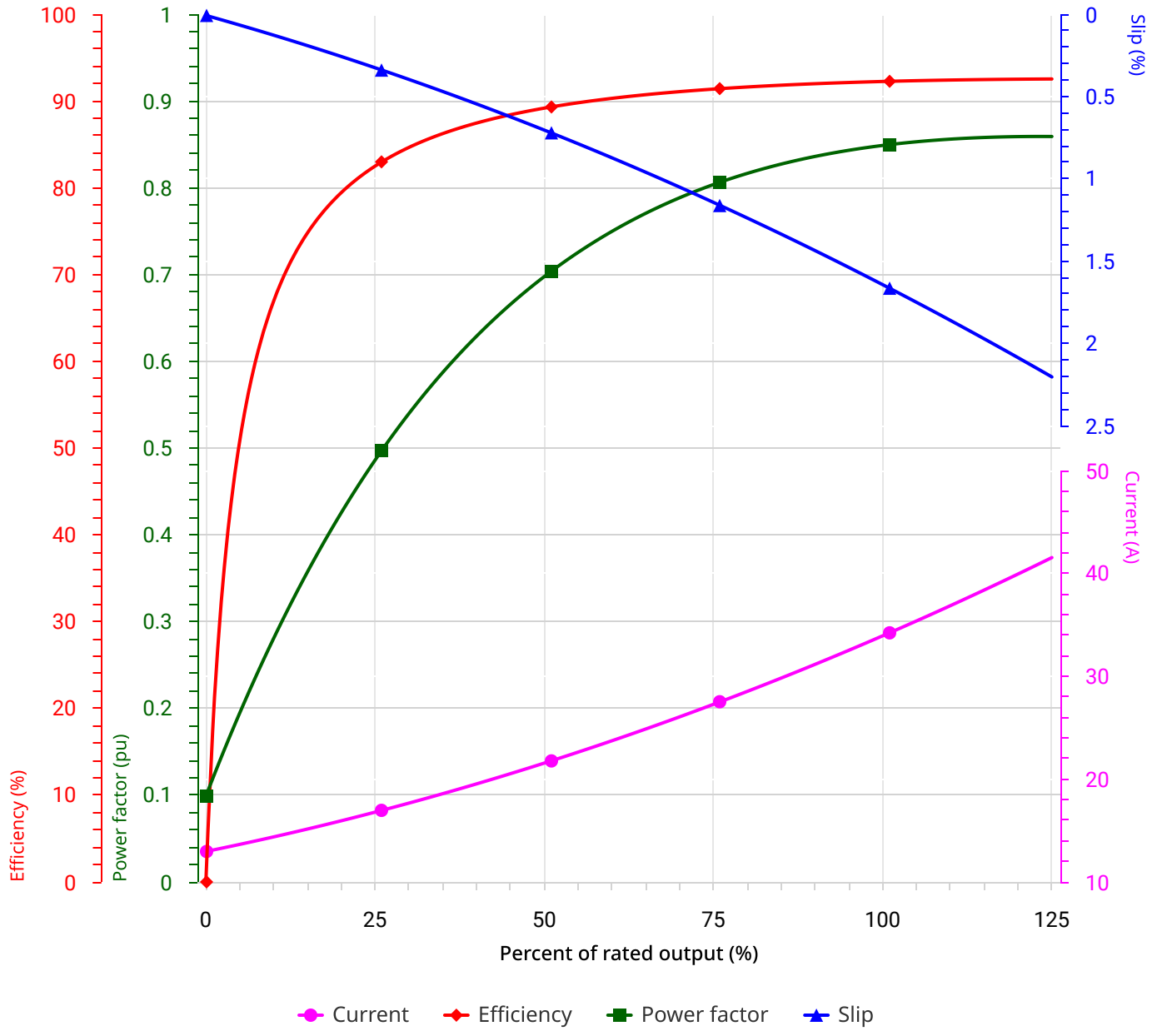
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: ODP NEMA Premium Efficiency Jet Pump Motors JM (IP23)
Product code	: 11833190



Performance	: 25 HP (18.5 kW) 400V 50Hz 2P 284JM

Rated current	: 34.0 A	Moment of inertia (J)	: 0.0795 kgm²
LRC	: 7.0 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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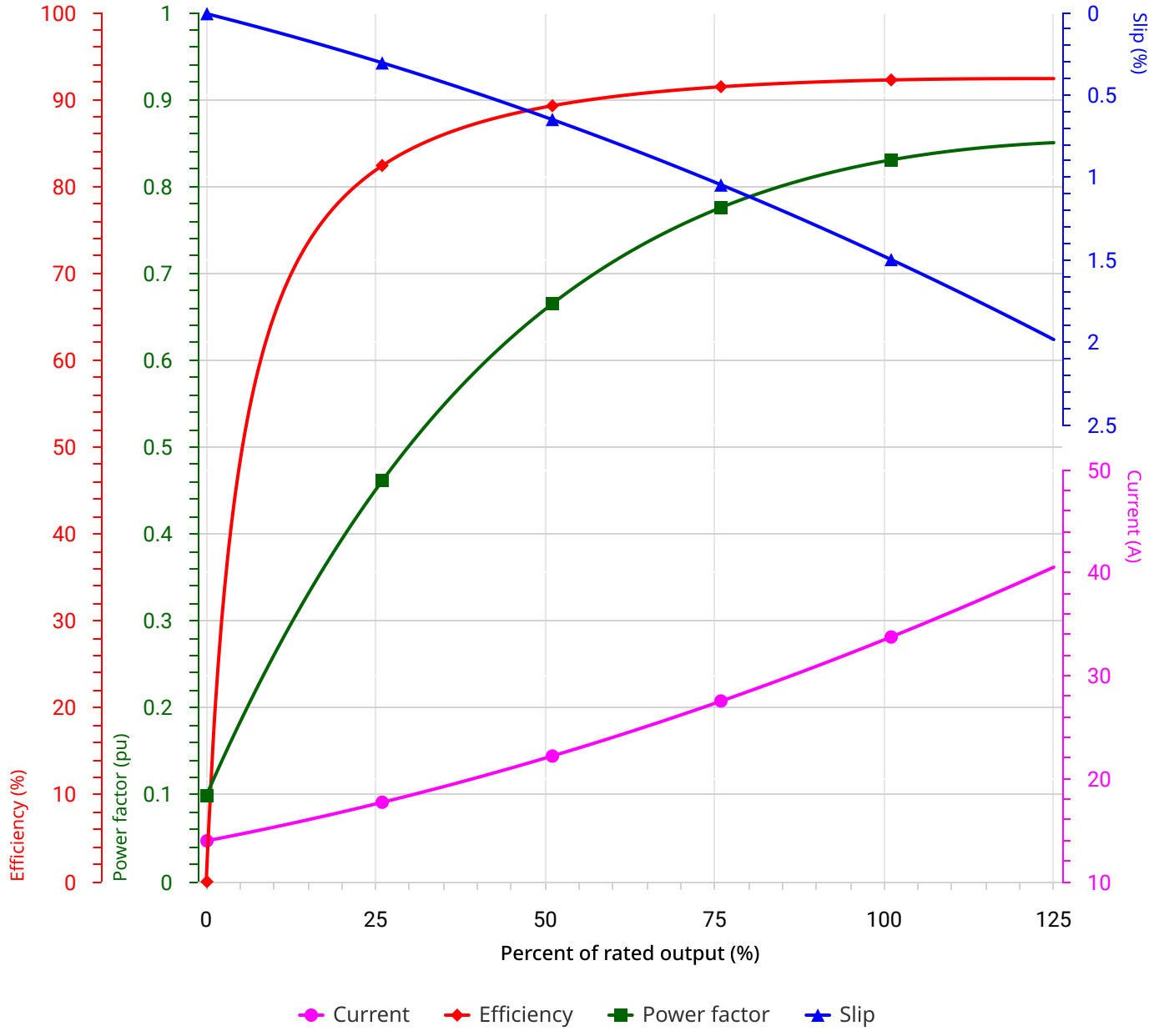
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 11833190



Performance	: 25 HP (18.5 kW) 415V 50Hz 2P 284JM

Rated current	: 33.6 A	Moment of inertia (J)	: 0.0795 kgm²
LRC	: 6.7 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 6.14 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: A

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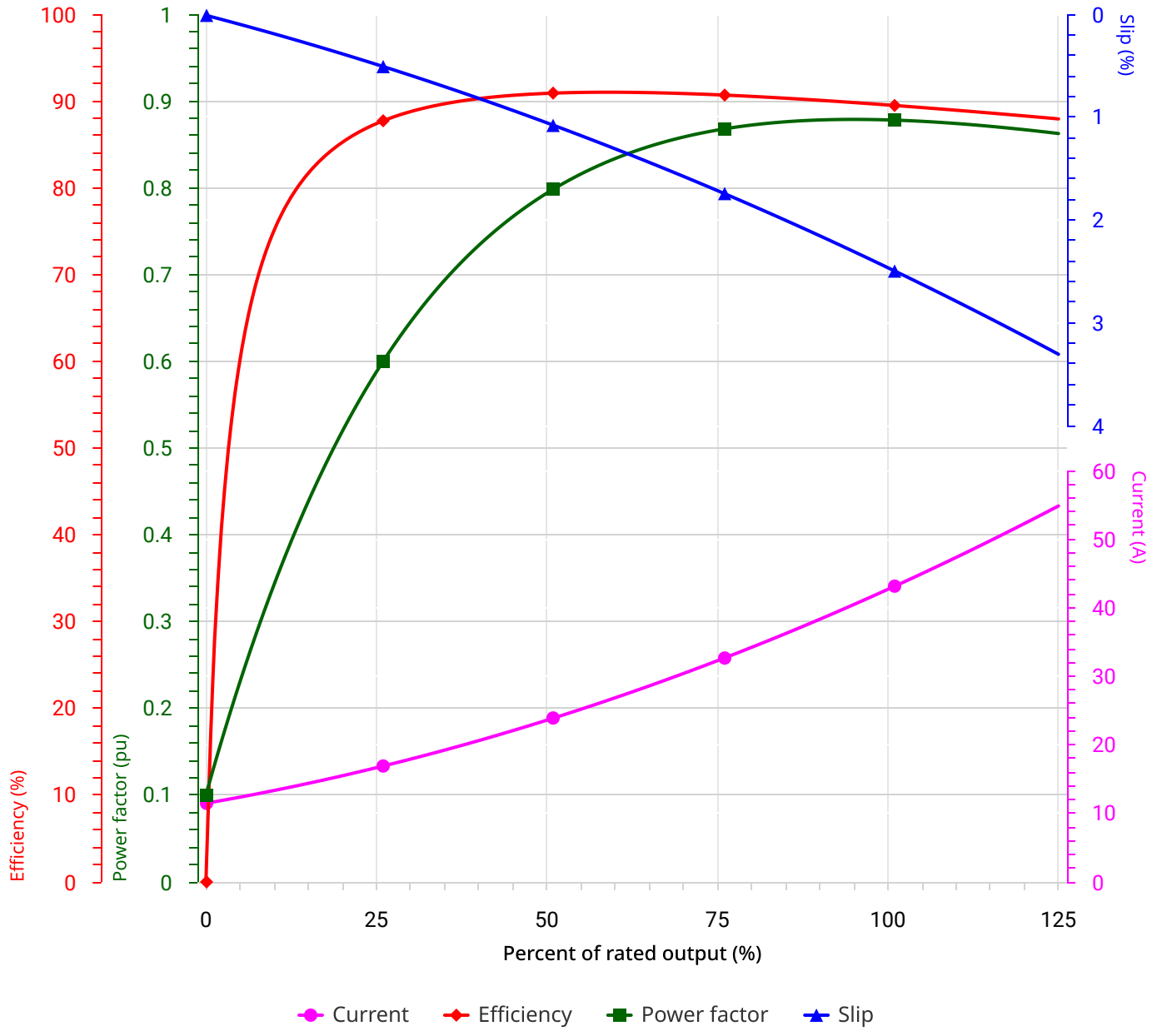
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Customer	:
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Performance	: 30 HP (22 kW) 380V 50Hz 2P 284JM

Rated current	: 42.4 A	Moment of inertia (J)	: 0.0795 kgm²
LRC	: 5.3 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 7.44 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.15
Breakdown torque	: 180 %	Temperature rise	: 80 K
Rated speed	: 2925 rpm	Design	: B

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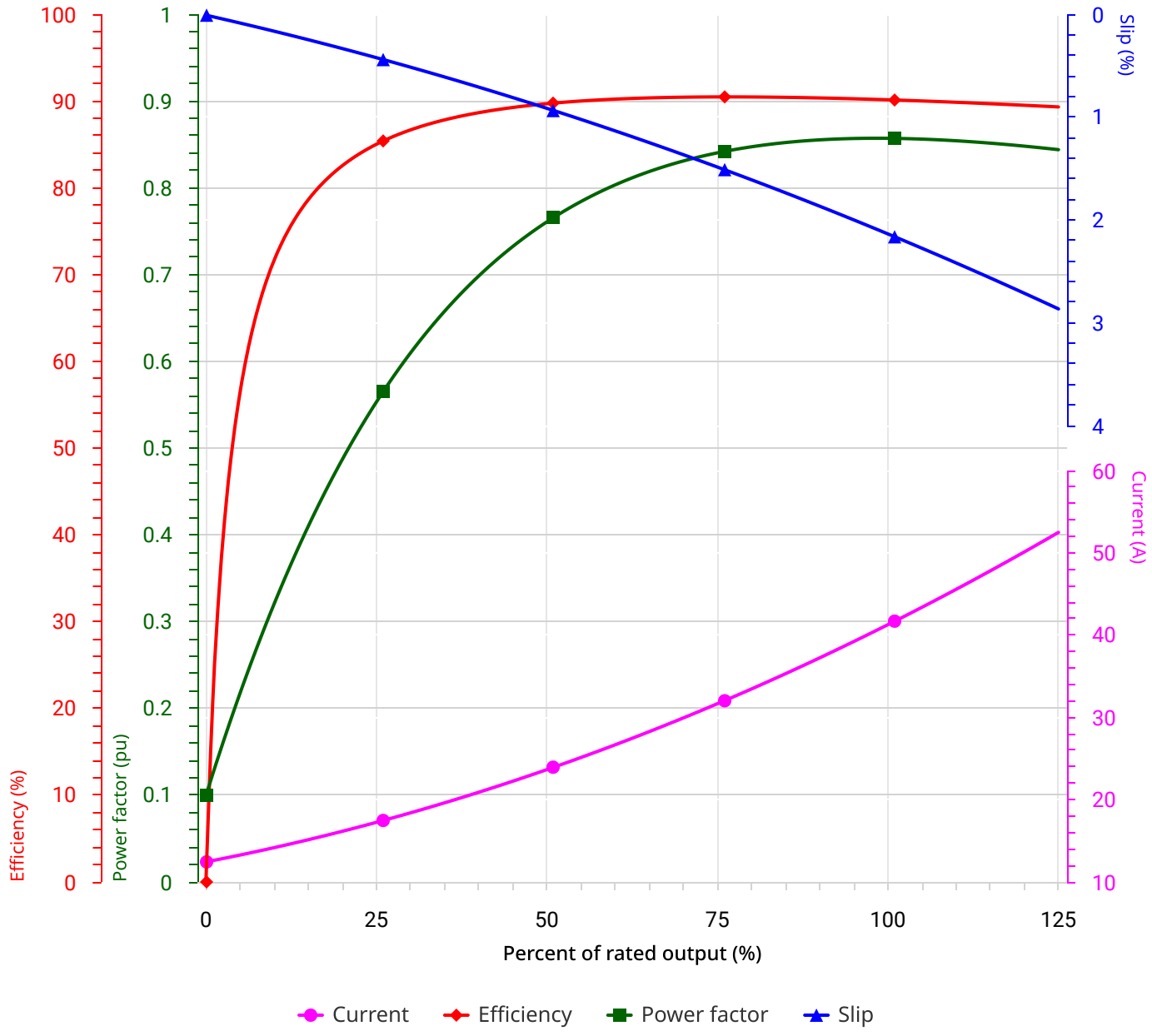
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 11833190



Performance	: 30 HP (22 kW) 400V 50Hz 2P 284JM

Rated current	: 40.9 A	Moment of inertia (J)	: 0.0795 kgm²
LRC	: 5.8 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 7.42 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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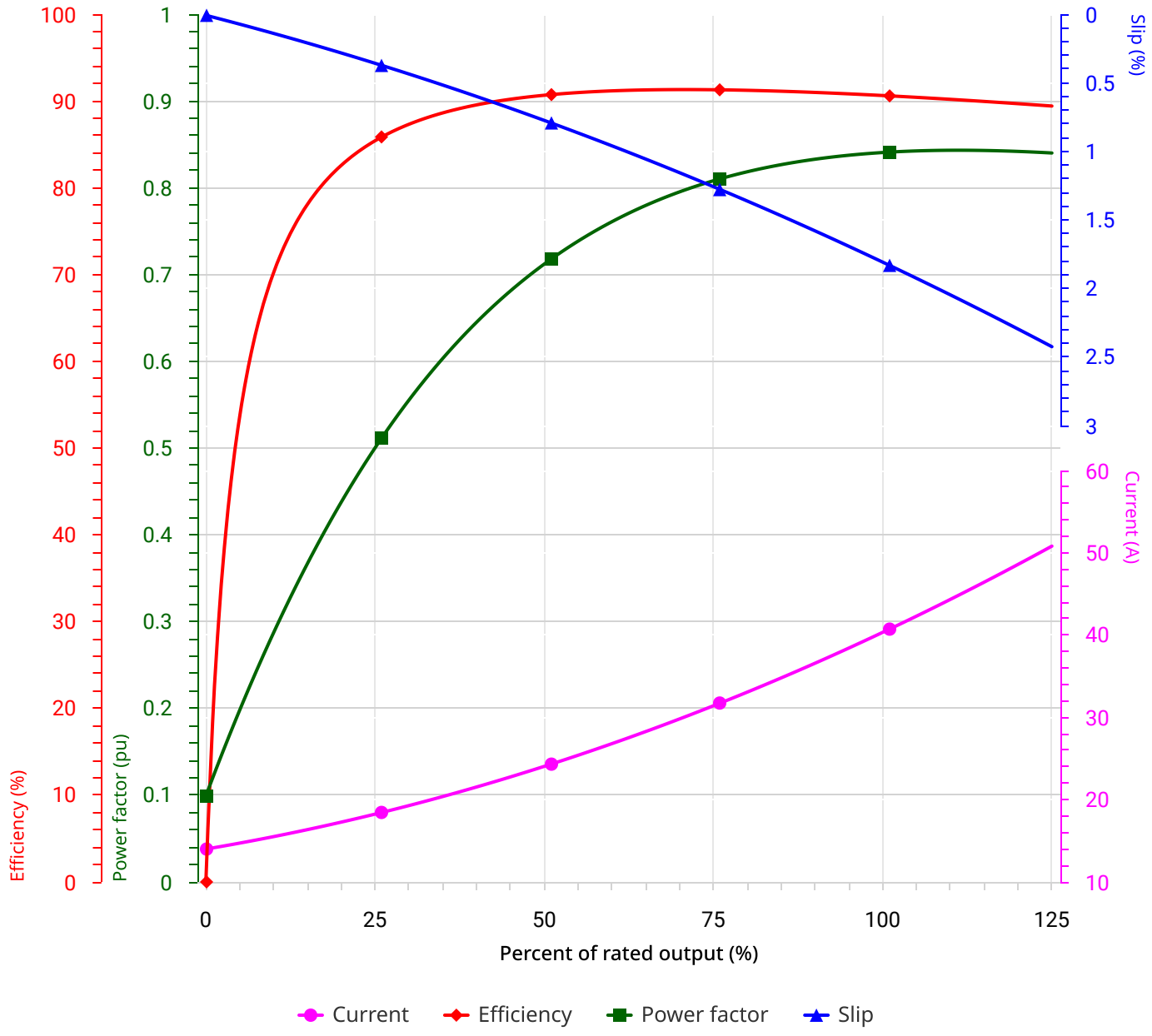
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 11833190



Performance	: 30 HP (22 kW) 415V 50Hz 2P 284JM

Rated current	: 40.2 A	Moment of inertia (J)	: 0.0795 kgm²
LRC	: 6.5 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 7.39 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: A

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