DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11442886

Frame	: 324/6T	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	: 285 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.5561 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		6	6	6	6	6	6	6
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		72.4/36.2 A	43.7 A	41.7 A	40.7 A	37.4 A	36.2 A	35.4 A
L. R. Amperes		449/225 A	214 A	225 A	236 A	217 A	228 A	237 A
LRC		6.2 Code G	4.9 Code E	5.4 Code F	5.8 Code G	5.8 Code G	6.3 Code H	6.7 Code H
No load current		32.8/16.4 A	15.5 A	16.8 A	18.0 A	15.5 A	16.8 A	18.0 A
Rated speed		1180 rpm	970 rpm	975 rpm	980 rpm	980 rpm	980 rpm	985 rpm
Slip		1.67 %	3.00 %	2.50 %	2.00 %	2.00 %	2.00 %	1.50 %
Rated torque		18.5 kgfm	22.4 kgfm	22.3 kgfm	22.2 kgfm	18.5 kgfm	18.5 kgfm	18.4 kgfm
Locked rotor torque		220 %	160 %	180 %	200 %	190 %	220 %	240 %
Breakdown torque		240 %	200 %	220 %	240 %	230 %	260 %	280 %
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Noise level		62 dB(A)	60 dB(A)	60 dB(A)	60 dB(A)	60 dB(A)	60 dB(A)	60 dB(A)
Locked rotor time		21 s (hot) 38 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)	15 s (hot) 27 s (cold)
Efficiency (%)	50%	91.7	91.7	91.7	91.0	91.3	91.3	90.7
	75%	93.0	91.7	92.4	92.4	91.8	92.2	91.9
	100%	93.0	91.0	91.7	91.7	91.7	92.1	92.0
Power Factor	Start	0.43	0.43	0.43	0.43	0.43	0.43	0.43
	50%	0.65	0.71	0.68	0.65	0.64	0.61	0.58
	75%	0.76	0.80	0.78	0.76	0.76	0.74	0.71
	100%	0.82	0.84	0.83	0.82	0.82	0.8	0.79
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)		7.28	9.56	8.75	8.75	8.75	8.29	8.41
P2 (0,5;1,0)		6.14	8.06	7.38	7.38	7.38	6.99	7.09
P3 (0,25;1,0)		6.01	7.90	7.23	7.23	7.23	6.85	6.94
P4 (0,9;0,5)		3.62	4.75	4.35	4.35	4.35	4.12	4.18
P5 (0,5;0,5)		2.54	3.34	3.06	3.06	3.06	2.90	2.94
P6 (0,5;0,25)		1.73	2.28	2.08	2.08	2.08	1.98	2.00
P7 (0,25;0,25)		1.22	1.61	1.47	1.47	1.47	1.39	1.41

	Drive end	Non drive end
Bearing type	6312-C3	6212-C3
Lubrication interval	20000 h	20000 h
Lubricant amount	21 g	13 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 520 kgf
Max. compression : 805 kgf

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

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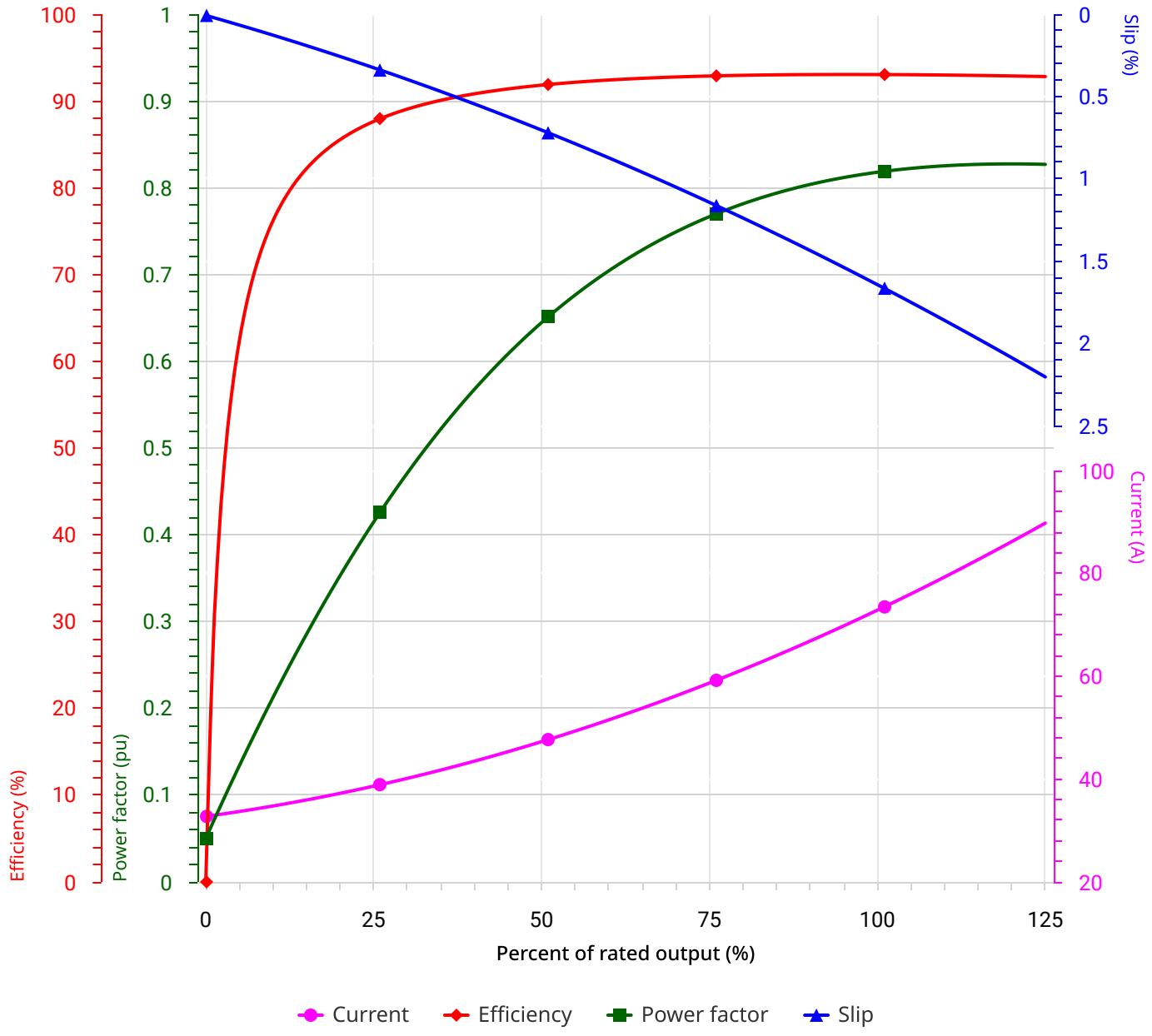
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11442886



Performance	: 30 HP (22 kW) 208/230/460V 60Hz 6P 324/6T

Rated current	: 79.2/72.4/36.2 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.2 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 18.5 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1180 rpm	Design	: B

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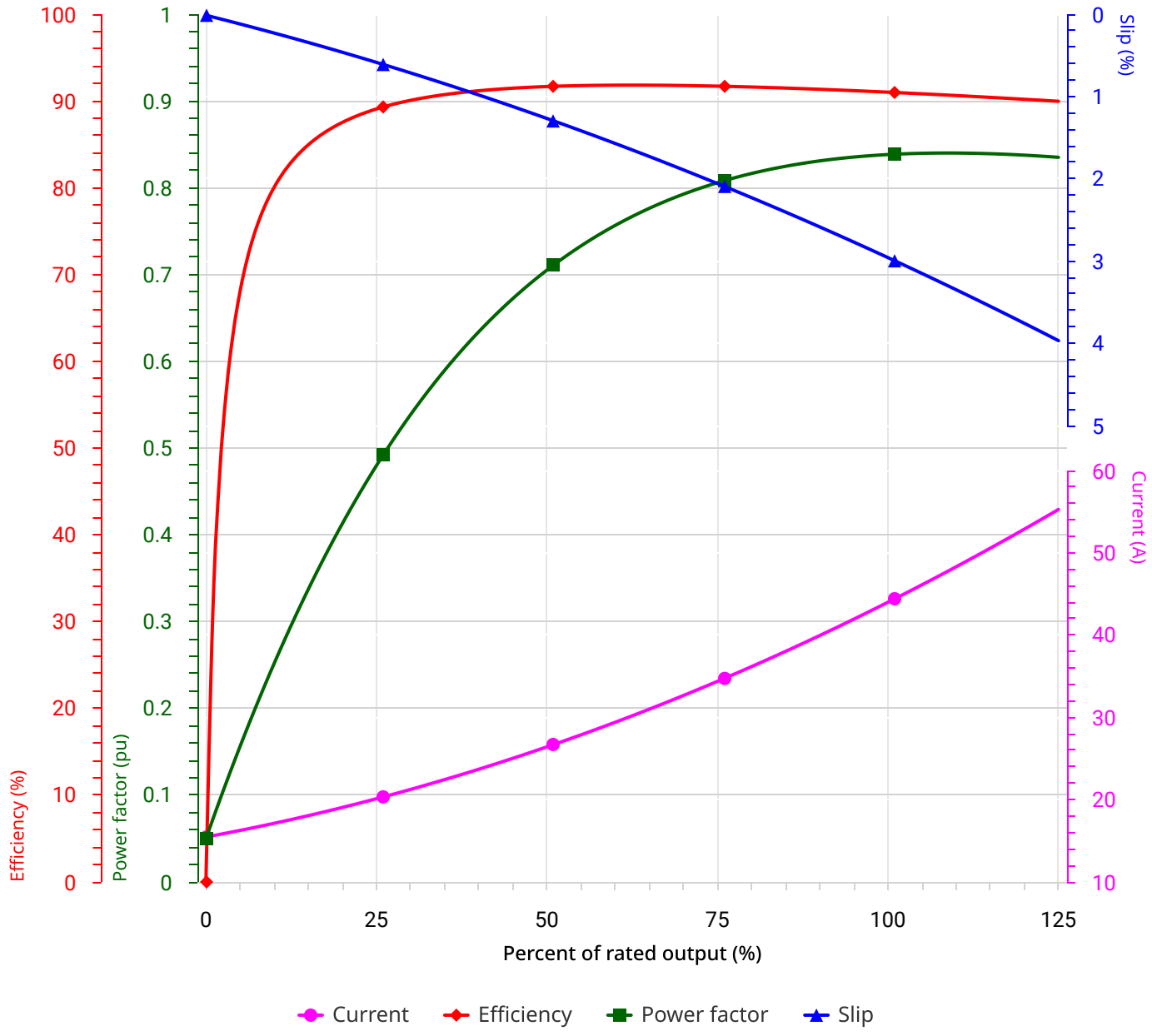
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11442886



Performance	: 30 HP (22 kW) 380V 50Hz 6P 324/6T

Rated current	: 43.7 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 4.9 Code E	Duty cycle	: Cont.(S1)
Rated torque	: 22.4 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

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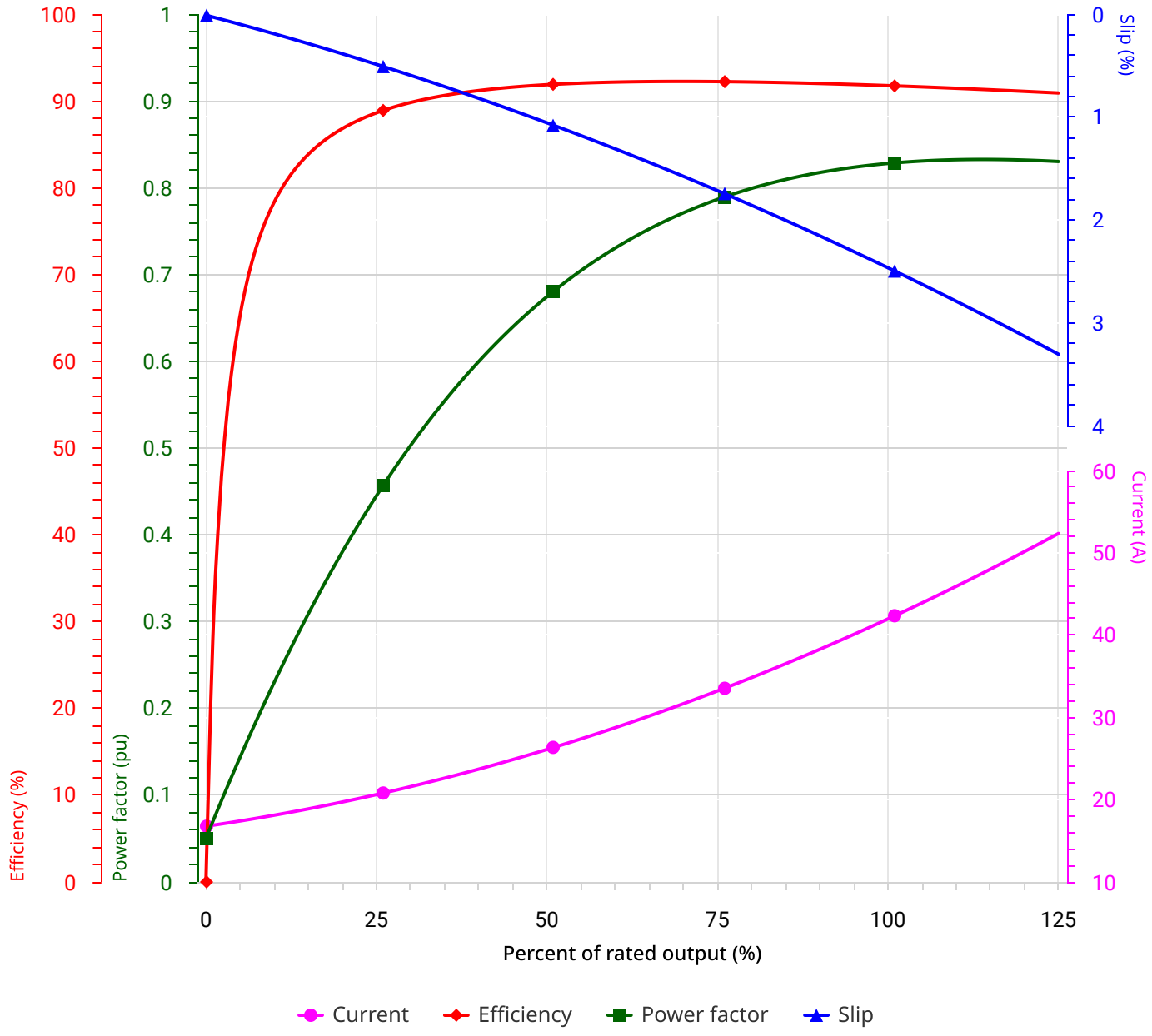
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 11442886



Performance	: 30 HP (22 kW) 400V 50Hz 6P 324/6T

Rated current	: 41.7 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 5.4 Code F	Duty cycle	: Cont.(S1)
Rated torque	: 22.3 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

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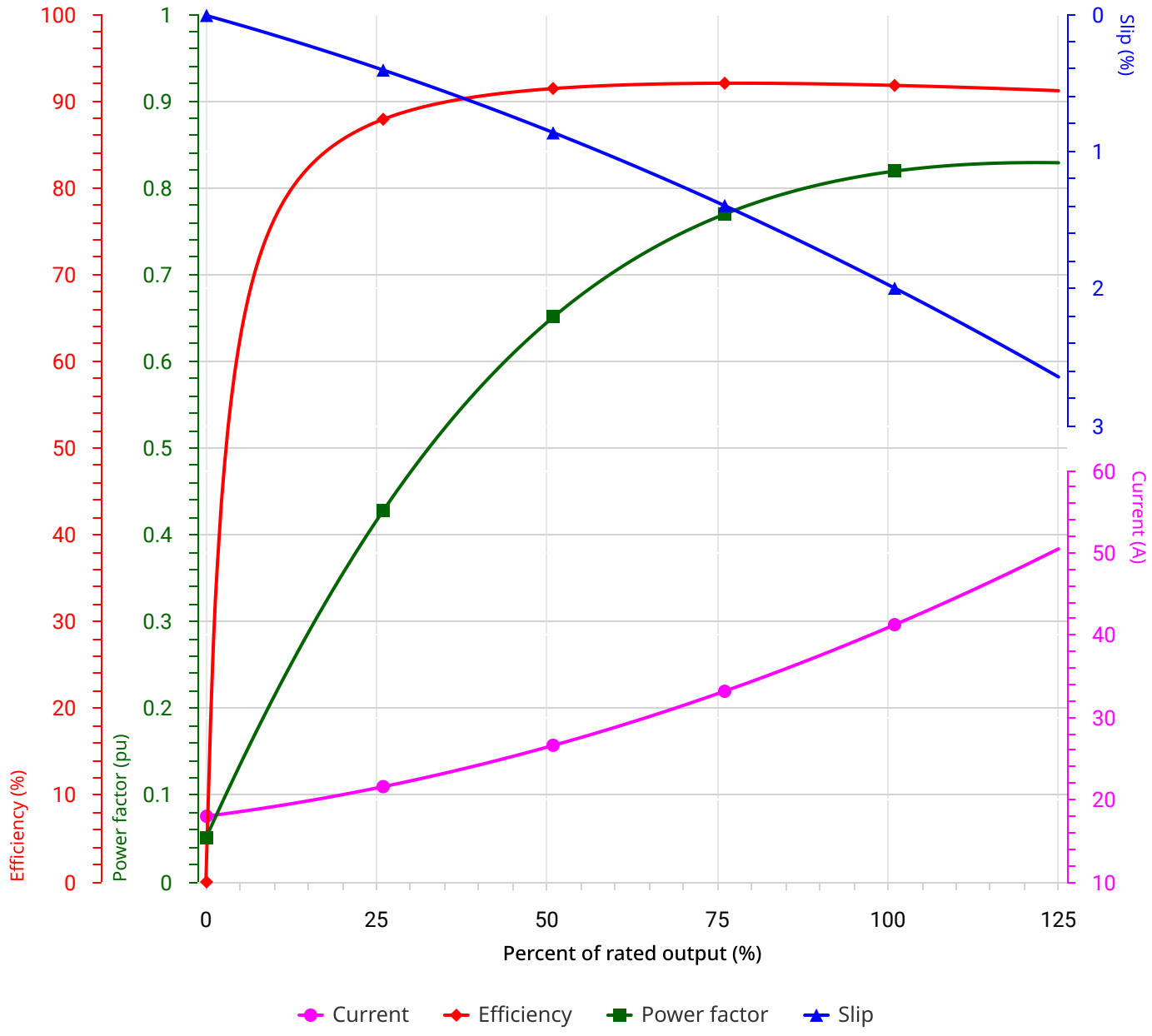
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Three Phase Induction Motor - Squirrel Cage

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Performance	: 30 HP (22 kW) 415V 50Hz 6P 324/6T

Rated current	: 40.7 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 5.8 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 22.2 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

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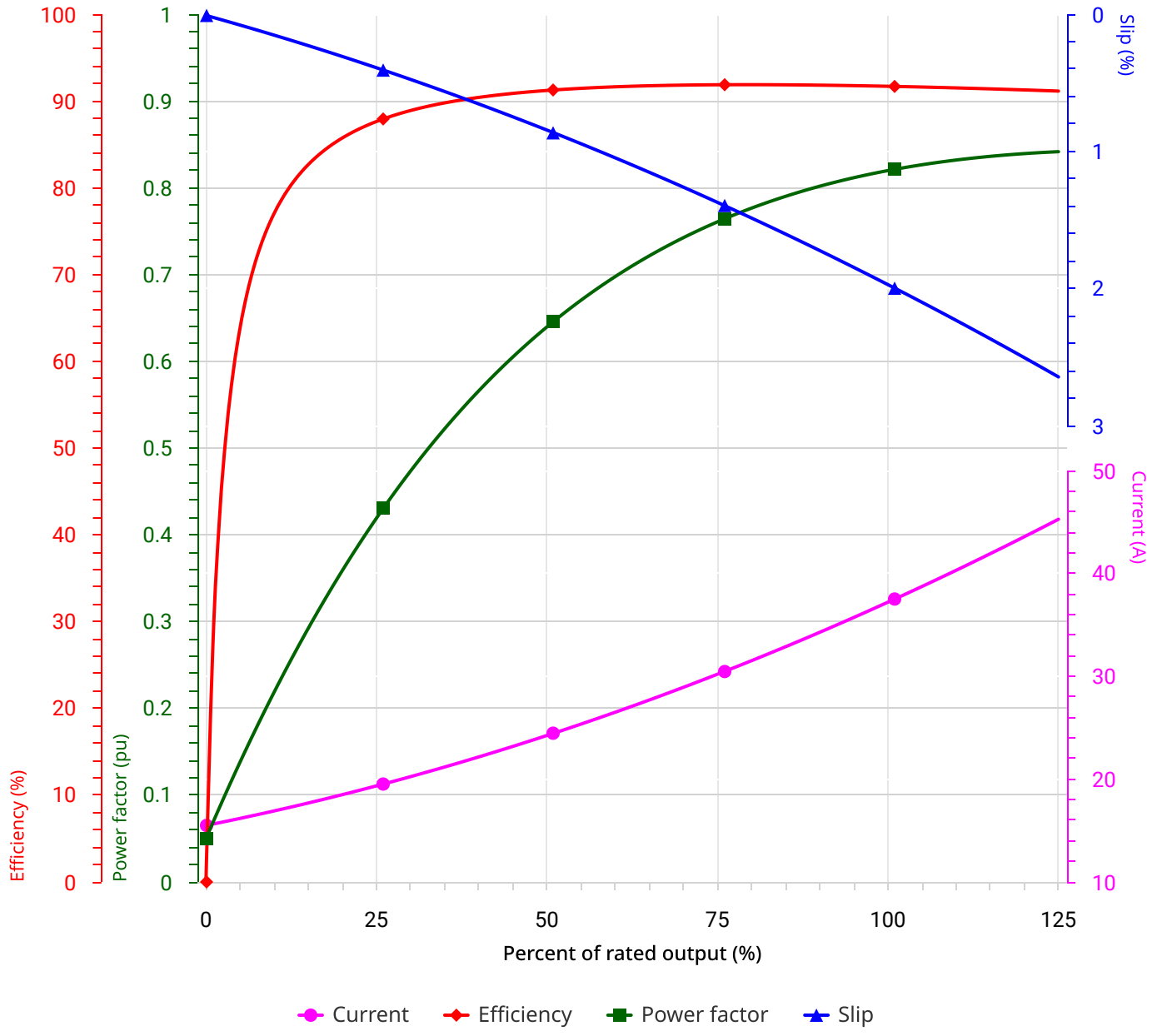
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 25 HP (18.5 kW) 380V 50Hz 6P 324/6T

Rated current	: 37.4 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 5.8 Code G	Duty cycle	: Cont.(S1)
Rated torque	: 18.5 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 230 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

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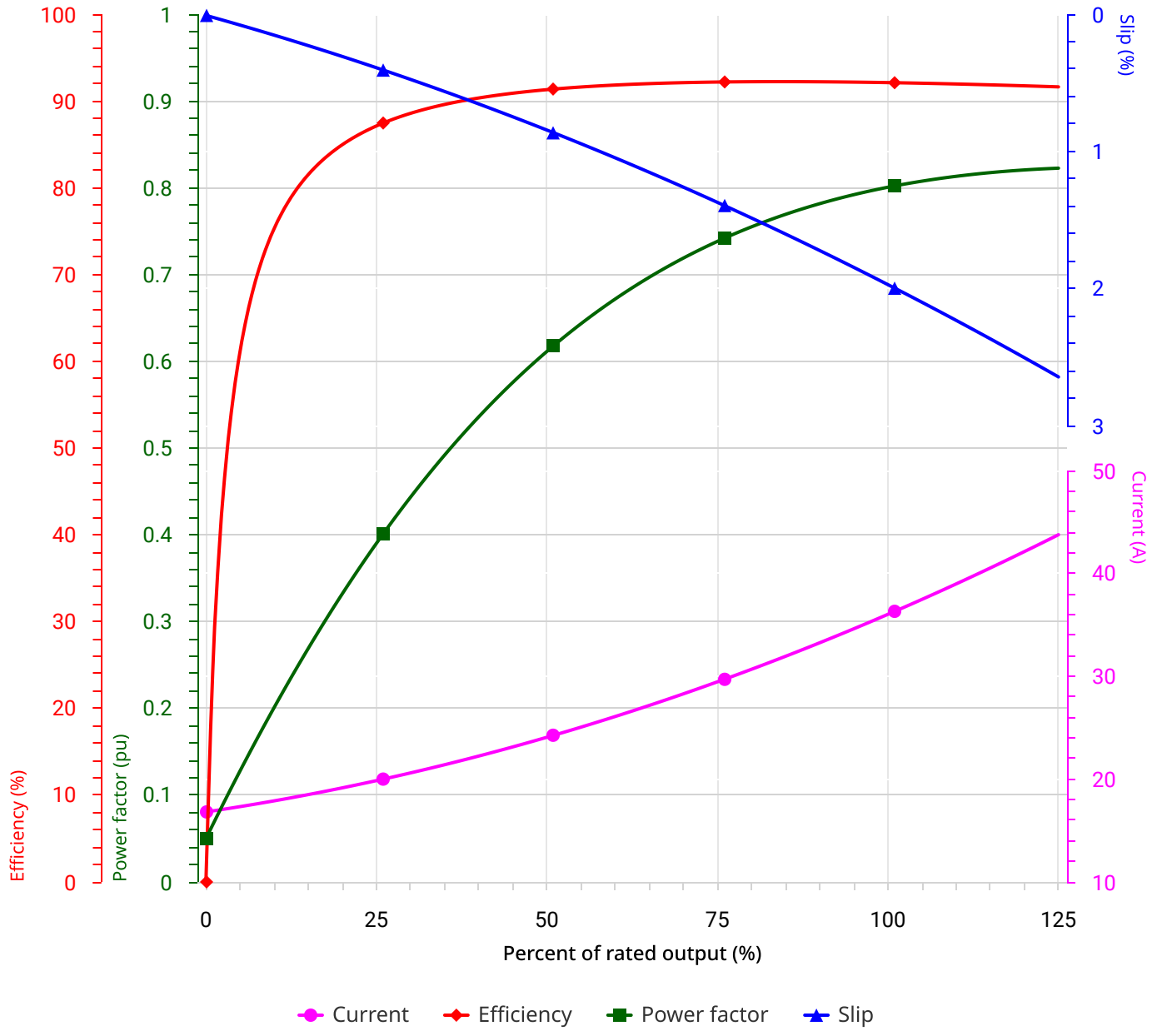
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Product code	: 11442886



Performance	: 25 HP (18.5 kW) 400V 50Hz 6P 324/6T

Rated current	: 36.2 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.3 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 18.5 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

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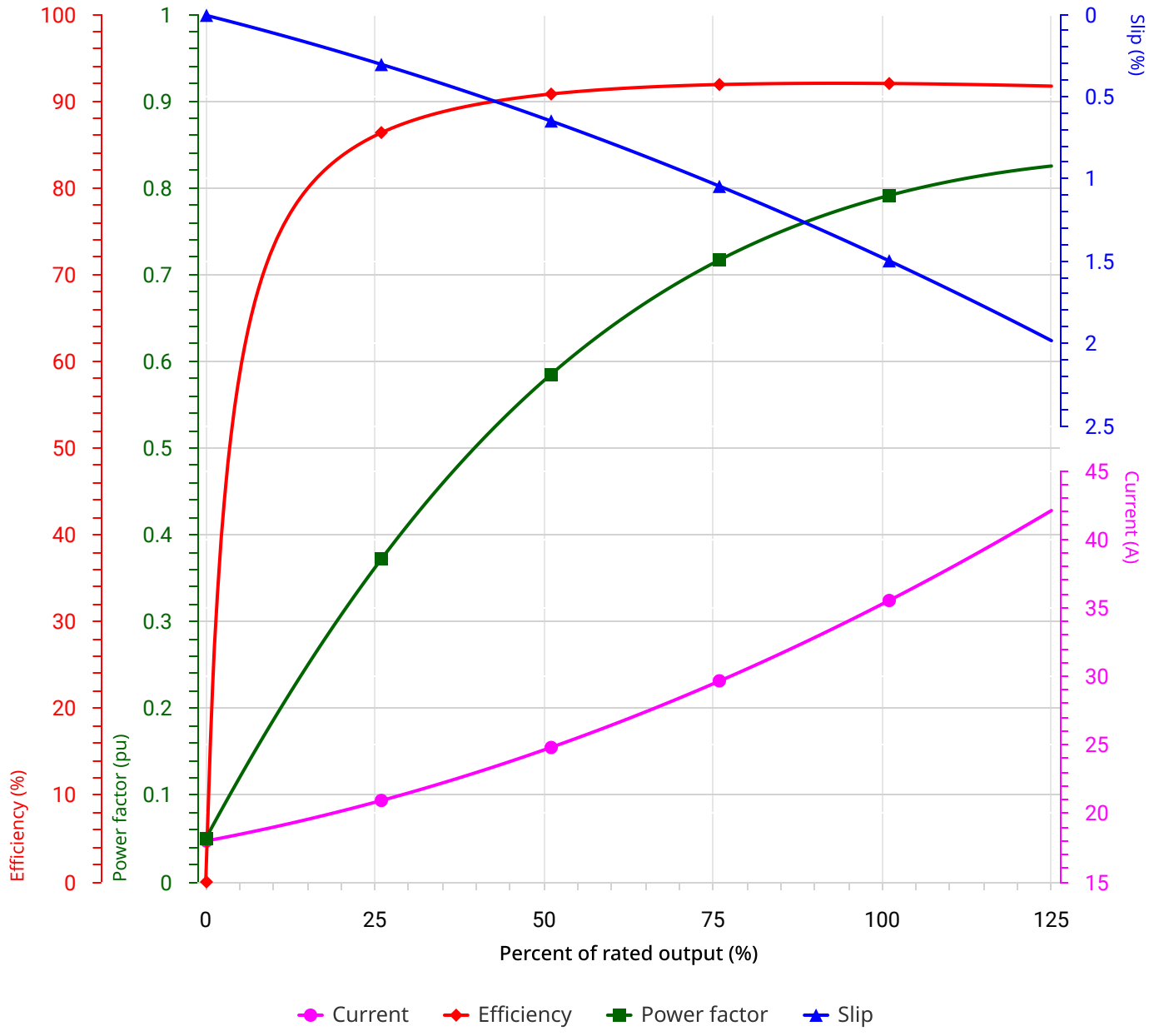
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Three Phase Induction Motor - Squirrel Cage

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Product line	: W22 - Nema Premium Efficiency (Derating)
Product code	: 11442886



Performance	: 25 HP (18.5 kW) 415V 50Hz 6P 324/6T

Rated current	: 35.4 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.7 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 18.4 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

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