DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 12676942

Frame	: 143/5JM	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1/B34R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 13.3 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0035 kgm²
Design	: B		

Output		1.5 HP (1.1 kW)	1.5 HP (1.1 kW)	1.5 HP (1.1 kW)
Poles		2	2	2
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	220/415 V
Rated current		3.70/1.85 A	4.40/2.20 A	3.94/2.09 A
L. R. Amperes		31.8/15.9 A	29.5/14.7 A	30.8/16.3 A
LRC		8.6 Code K	6.7 Code H	7.8 Code J
No load current		1.62/0.809 A	1.59/0.796 A	1.84/0.977 A
Rated speed		3510 rpm	2890 rpm	2910 rpm
Slip		2.50 %	3.67 %	3.00 %
Rated torque		0.310 kgfm	0.377 kgfm	0.374 kgfm
Locked rotor torque		210 %	180 %	220 %
Breakdown torque		330 %	250 %	300 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level		62 dB(A)	60 dB(A)	60 dB(A)
Locked rotor time		19 s (hot) 34 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)
Efficiency (%)	50%	81.5	82.7	81.0
	75%	84.0	83.6	83.3
	100%	84.0	82.7	83.2
Power Factor	Start	0.65	0.71	0.72
	50%	0.73	0.79	0.71
	75%	0.83	0.88	0.83
	100%	0.89	0.92	0.88
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		0.00	0.00	0.00
P2 (0,5;1,0)		0.00	0.00	0.00
P3 (0,25;1,0)		0.00	0.00	0.00
P4 (0,9;0,5)		0.00	0.00	0.00
P5 (0,5;0,5)		0.00	0.00	0.00
P6 (0,5;0,25)		0.00	0.00	0.00
P7 (0,25;0,25)		0.00	0.00	0.00

	Drive end	Non drive end
Bearing type	6206-ZZ	6203-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/12

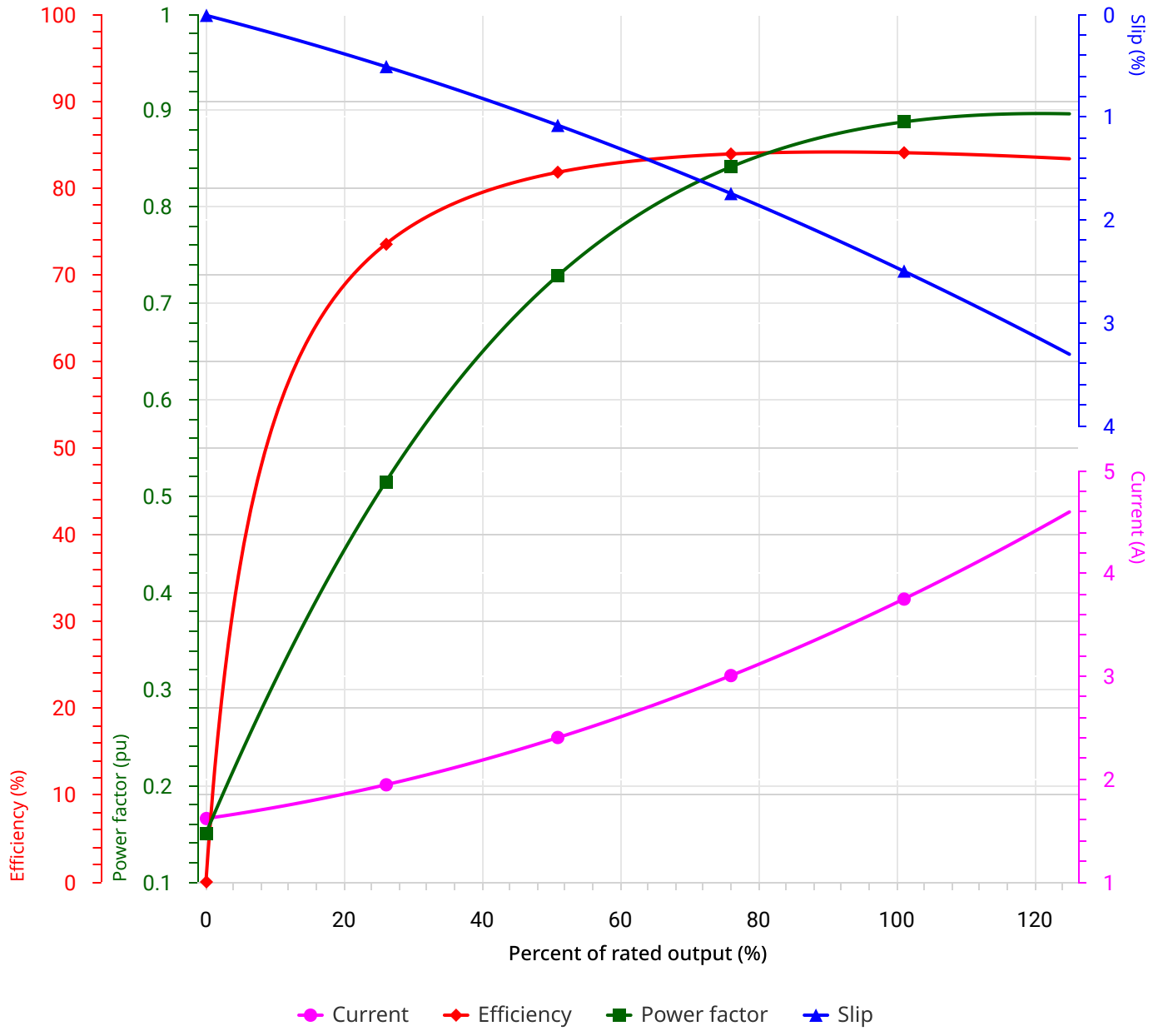
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LOAD PERFORMANCE CURVE

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Customer	:
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Product code	: 12676942



Performance	: 1.5 HP (1.1 kW) 208/230/460V 60Hz 2P 143/5JM

Rated current	: 4.09/3.70/1.85 A	Moment of inertia (J)	: 0.0035 kgm²
LRC	: 8.6 Code K	Duty cycle	: Cont.(S1)
Rated torque	: 0.310 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

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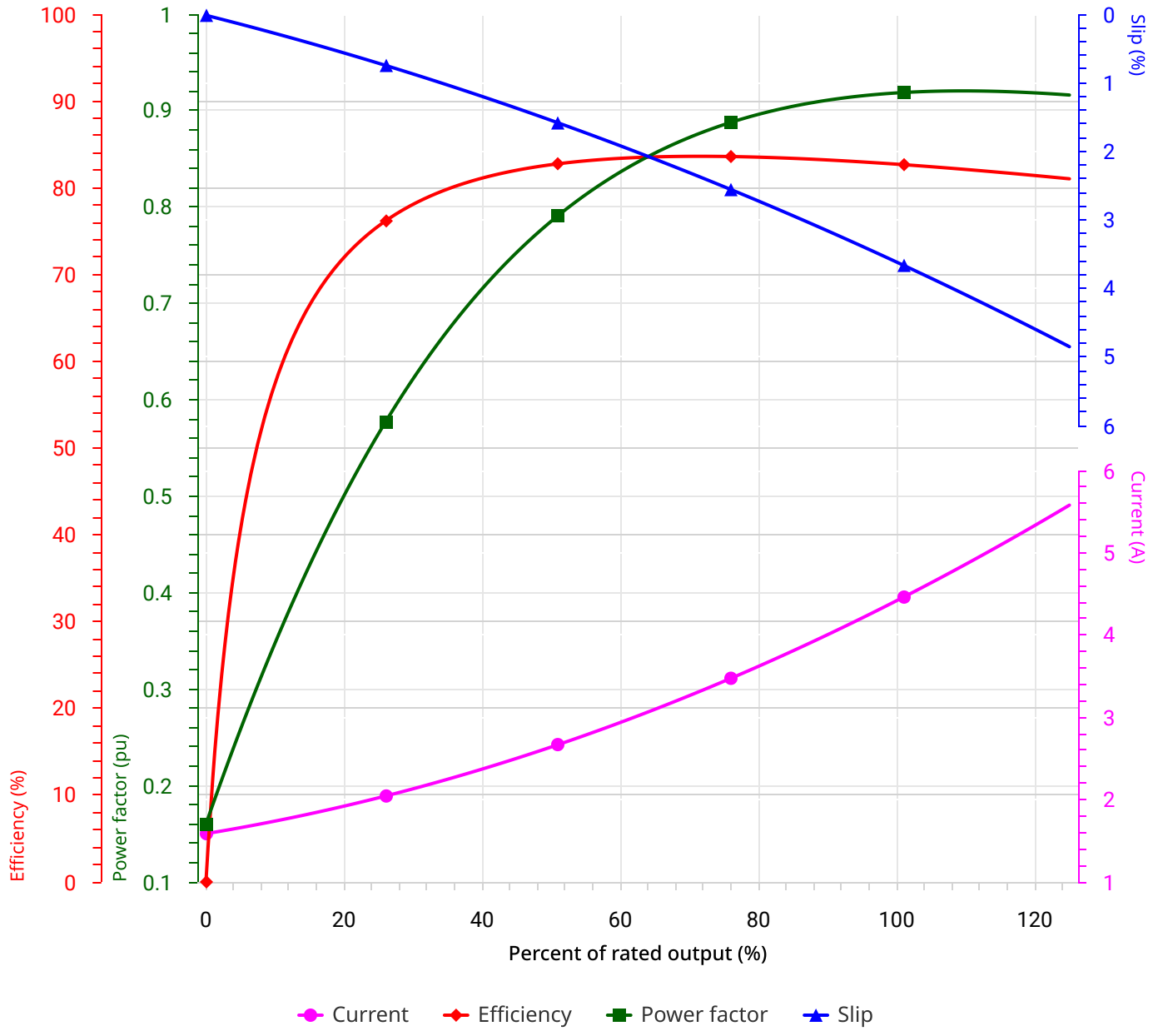
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 12676942



Performance	: 1.5 HP (1.1 kW) 190/380V 50Hz 2P 143/5JM

Rated current	: 4.40/2.20 A	Moment of inertia (J)	: 0.0035 kgm²
LRC	: 6.7 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 0.377 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

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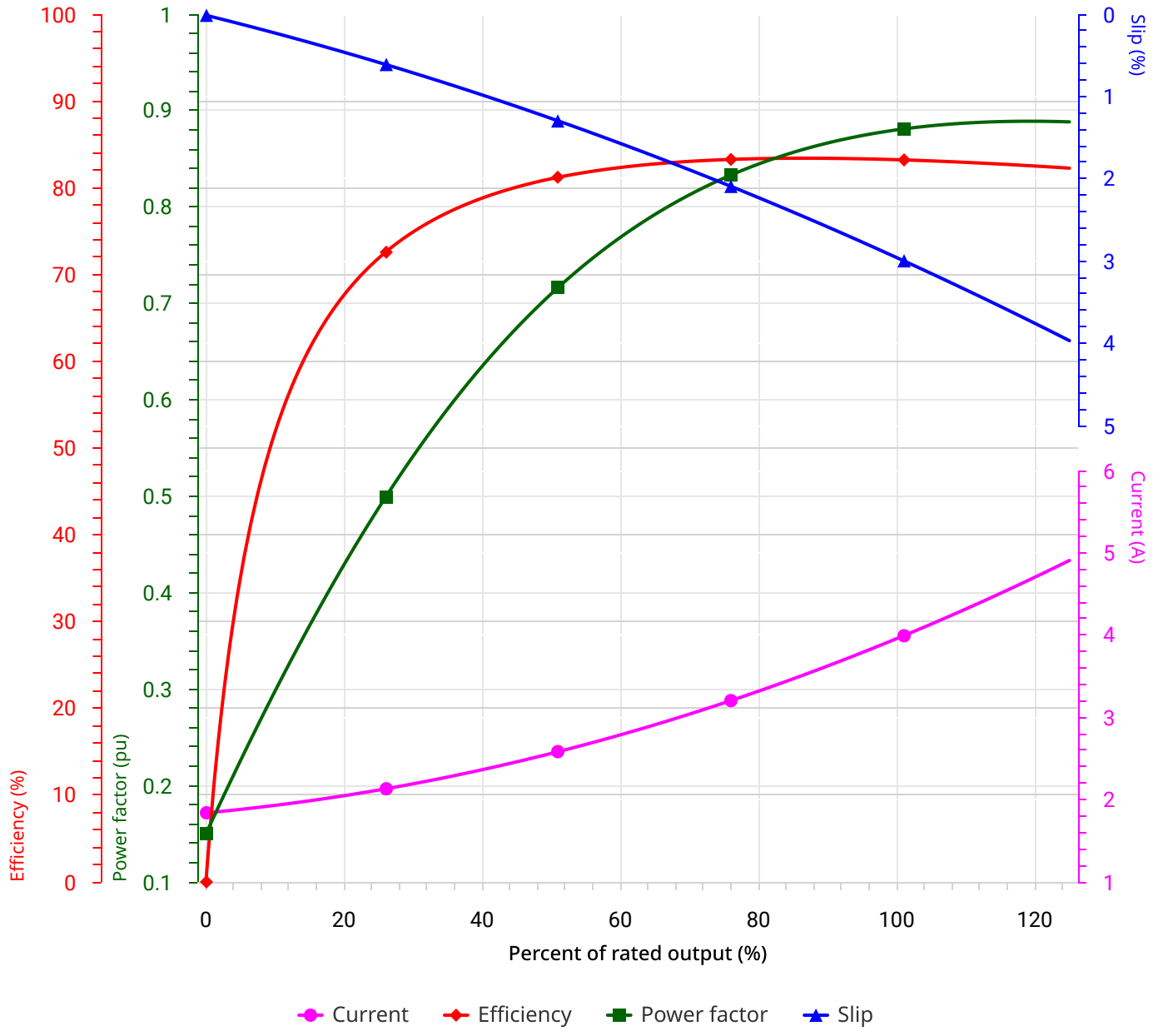
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Performance	: 1.5 HP (1.1 kW) 220/415V 50Hz 2P 143/5JM

Rated current	: 3.94/2.09 A	Moment of inertia (J)	: 0.0035 kgm²
LRC	: 7.8 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.374 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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