DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - ODP - Premium Efficiency (DOE) Jet Pump - Forma J Derating
Product code	: 13961579

Frame	: 56J	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1/B14R(D)
Duty cycle	: S1	Rotation	: Counter clockwise
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 19.8 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0054 kgm²
Design	: A		

Output		3 HP (2.2 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	400 V
Rated current		7.18/3.59 A	4.98/2.49 A	2.49 A
L. R. Amperes		57.4/28.7 A	48.8/24.4 A	25.4 A
LRC		8.0 Code J	9.8 Code M	10.2 Code N
No load current		2.60/1.30 A	2.46/1.23 A	1.35 A
Rated speed		3480 rpm	2940 rpm	2945 rpm
Slip		3.33 %	2.00 %	1.83 %
Rated torque		0.626 kgfm	0.370 kgfm	0.370 kgfm
Locked rotor torque		230 %	460 %	520 %
Breakdown torque		300 %	550 %	610 %
Service factor		1.15	1.00	1.00
Temperature rise		80 K	80 K	80 K
Noise level		62 dB(A)	60 dB(A)	60 dB(A)
Locked rotor time		9 s (hot) 16 s (cold)	9 s (hot) 16 s (cold)	9 s (hot) 16 s (cold)
Efficiency (%)	50%	84.0	80.7	79.7
	75%	85.5	84.4	83.8
	100%	85.5	82.7	82.7
Power Factor	Start	0.68	0.73	0.73
	50%	0.76	0.59	0.54
	75%	0.86	0.72	0.68
	100%	0.9	0.81	0.77
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		20.11	26.00	25.61
P2 (0,5;1,0)		18.86	24.38	24.02
P3 (0,25;1,0)		17.00	21.98	21.65
P4 (0,9;0,5)		8.81	11.39	11.22
P5 (0,5;0,5)		6.20	8.02	7.90
P6 (0,5;0,25)		3.74	4.83	4.76
P7 (0,25;0,25)		2.57	3.32	3.27

	Drive end	Non drive end
Bearing type	6203-2RS	6202-2RS
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads
Max. traction : 62 kgf
Max. compression : 82 kgf

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/09

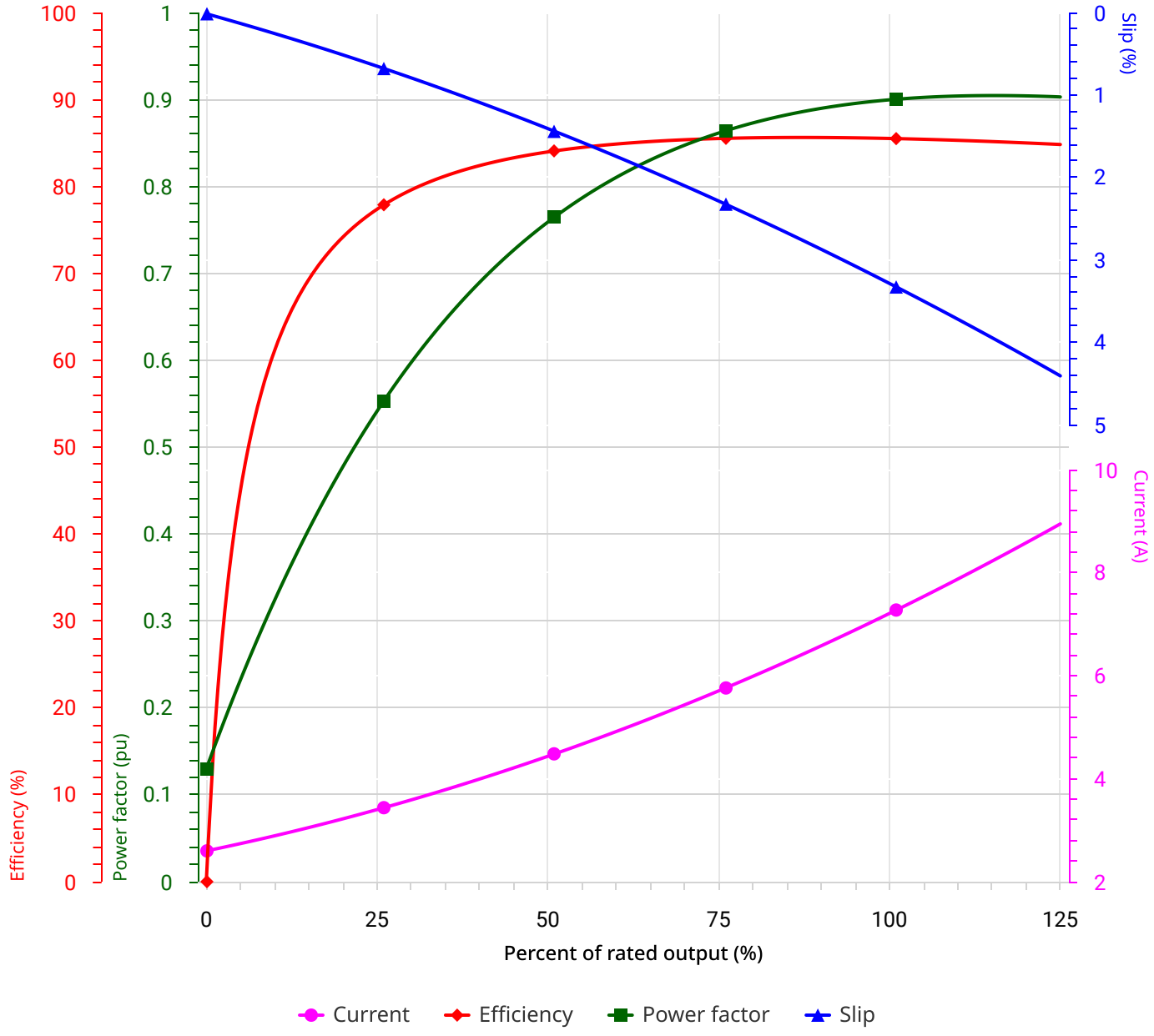
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Customer	:
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Product code	: 13961579



Performance	: 3 HP (2.2 kW) 208/230/460V 60Hz 2P 56J

Rated current	: 7.94/7.18/3.59 A	Moment of inertia (J)	: 0.0054 kgm²
LRC	: 8.0 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 0.626 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3480 rpm	Design	: A

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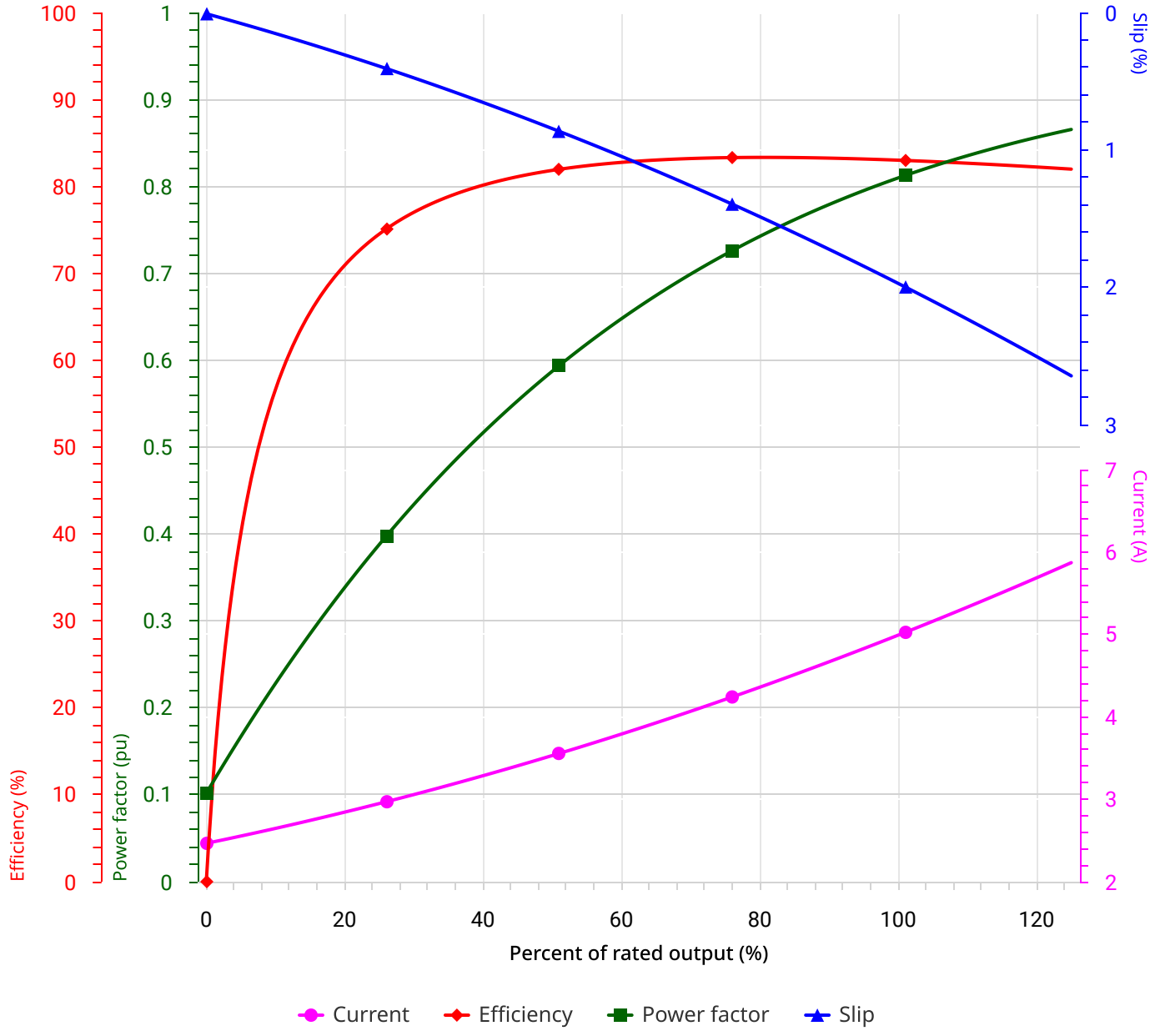
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Customer	:
Product line	: W01 - ODP - Premium Efficiency (DOE) Jet Pump - Forma J Derating
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Performance	: 1.5 HP (1.1 kW) 190/380V 50Hz 2P 56J

Rated current	: 4.98/2.49 A	Moment of inertia (J)	: 0.0054 kgm²
LRC	: 9.8 Code M	Duty cycle	: Cont.(S1)
Rated torque	: 0.370 kgfm	Insulation class	: F
Locked rotor torque	: 460 %	Service factor	: 1.00
Breakdown torque	: 550 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: A

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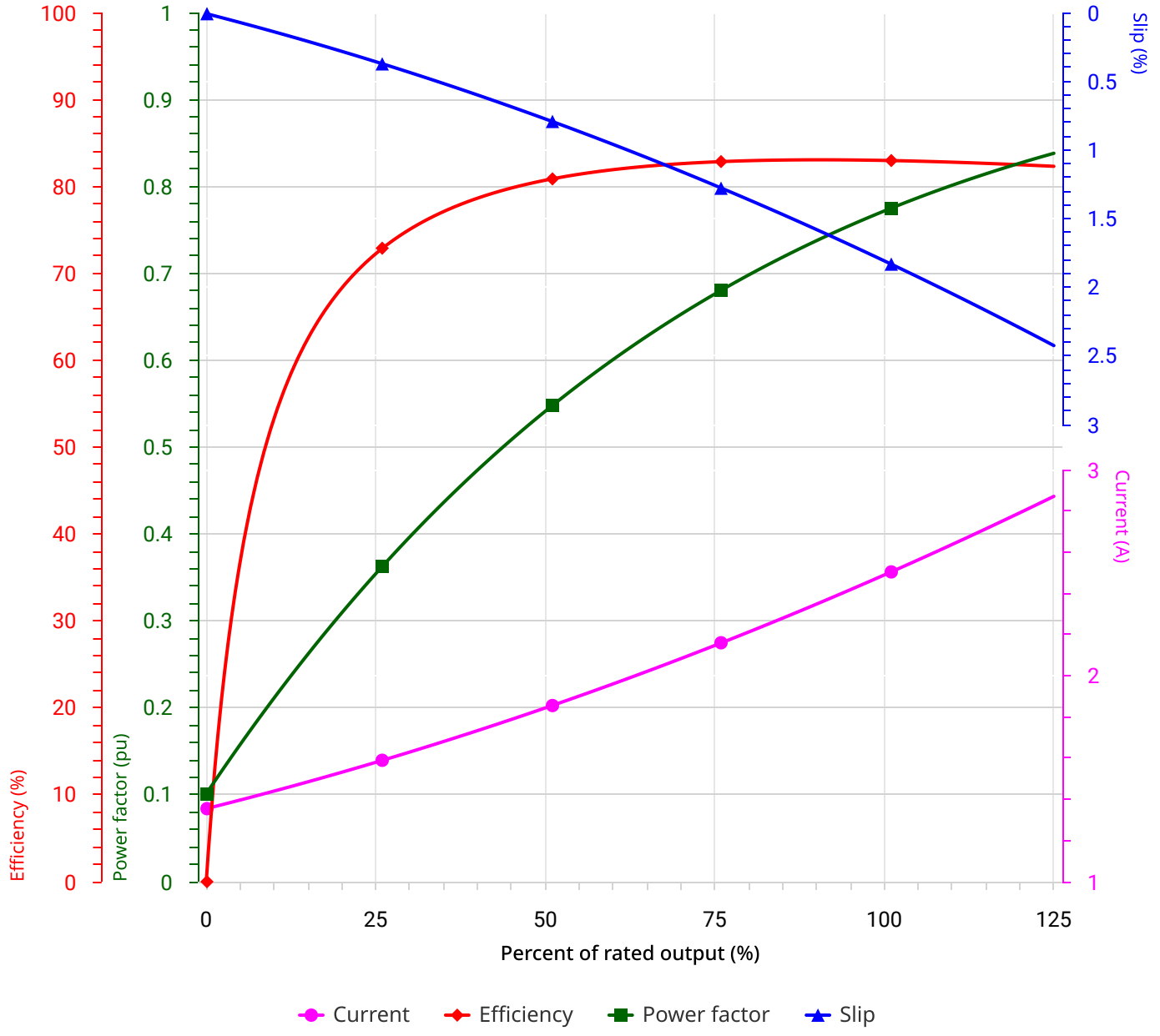
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Product code	: 13961579



Performance	: 1.5 HP (1.1 kW) 400V 50Hz 2P 56J

Rated current	: 2.49 A	Moment of inertia (J)	: 0.0054 kgm²
LRC	: 10.2 Code N	Duty cycle	: Cont.(S1)
Rated torque	: 0.370 kgfm	Insulation class	: F
Locked rotor torque	: 520 %	Service factor	: 1.00
Breakdown torque	: 610 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: A

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