DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 12676949

Frame	: 182/4JM	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	: 28.8 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0058 kgm²
Design	: B		

Output		5 HP (3.7 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)	3 HP (2.2 kW)
Poles		2	2	2	2
Frequency		60 Hz	50 Hz	50 Hz	50 Hz
Rated voltage		208-230/460 V	190/380 V	220 V	220/415 V
Rated current		13.5-12.6/6.32 A	9.98/4.99 A	8.62 A	10.0/5.30 A
L. R. Amperes		96.1/48.0 A	91.8/45.9 A	79.3 A	98.0/51.9 A
LRC		7.6 Code J	9.2 Code M	9.2 Code M	9.8 Code N
No load current		6.20/3.10 A	6.00/3.00 A	5.18 A	7.55/4.00 A
Rated speed		3510 rpm	2940 rpm	2940 rpm	2950 rpm
Slip		2.50 %	2.00 %	2.00 %	1.67 %
Rated torque		1.03 kgfm	0.741 kgfm	1.00 kgfm	0.738 kgfm
Locked rotor torque		190 %	230 %	225 %	280 %
Breakdown torque		300 %	420 %	420 %	490 %
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Noise level		65 dB(A)	63 dB(A)	63.0 dB(A)	63 dB(A)
Locked rotor time		15 s (hot) 27 s (cold)	19 s (hot) 34 s (cold)	19 s (hot) 34 s (cold)	14 s (hot) 25 s (cold)
Efficiency (%)	50%	85.5	81.6	81.6	78.0
	75%	86.5	84.8	84.8	83.8
	100%	86.5	85.9	85.9	85.0
Power Factor	Start	0.59	0.60	0.60	0.60
	50%	0.66	0.56	0.56	0.50
	75%	0.78	0.70	0.70	0.60
	100%	0.85	0.78	0.78	0.68
Losses at normative operating points (speed;torque), in percentage of rated output power					
P1 (0,9;1,0)		0.00	0.00	0.00	0.00
P2 (0,5;1,0)		0.00	0.00	0.00	0.00
P3 (0,25;1,0)		0.00	0.00	0.00	0.00
P4 (0,9;0,5)		0.00	0.00	0.00	0.00
P5 (0,5;0,5)		0.00	0.00	0.00	0.00
P6 (0,5;0,25)		0.00	0.00	0.00	0.00
P7 (0,25;0,25)		0.00	0.00	0.00	0.00

	Drive end	Non drive end
Bearing type	6207-ZZ	6205-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
				2026/11/13

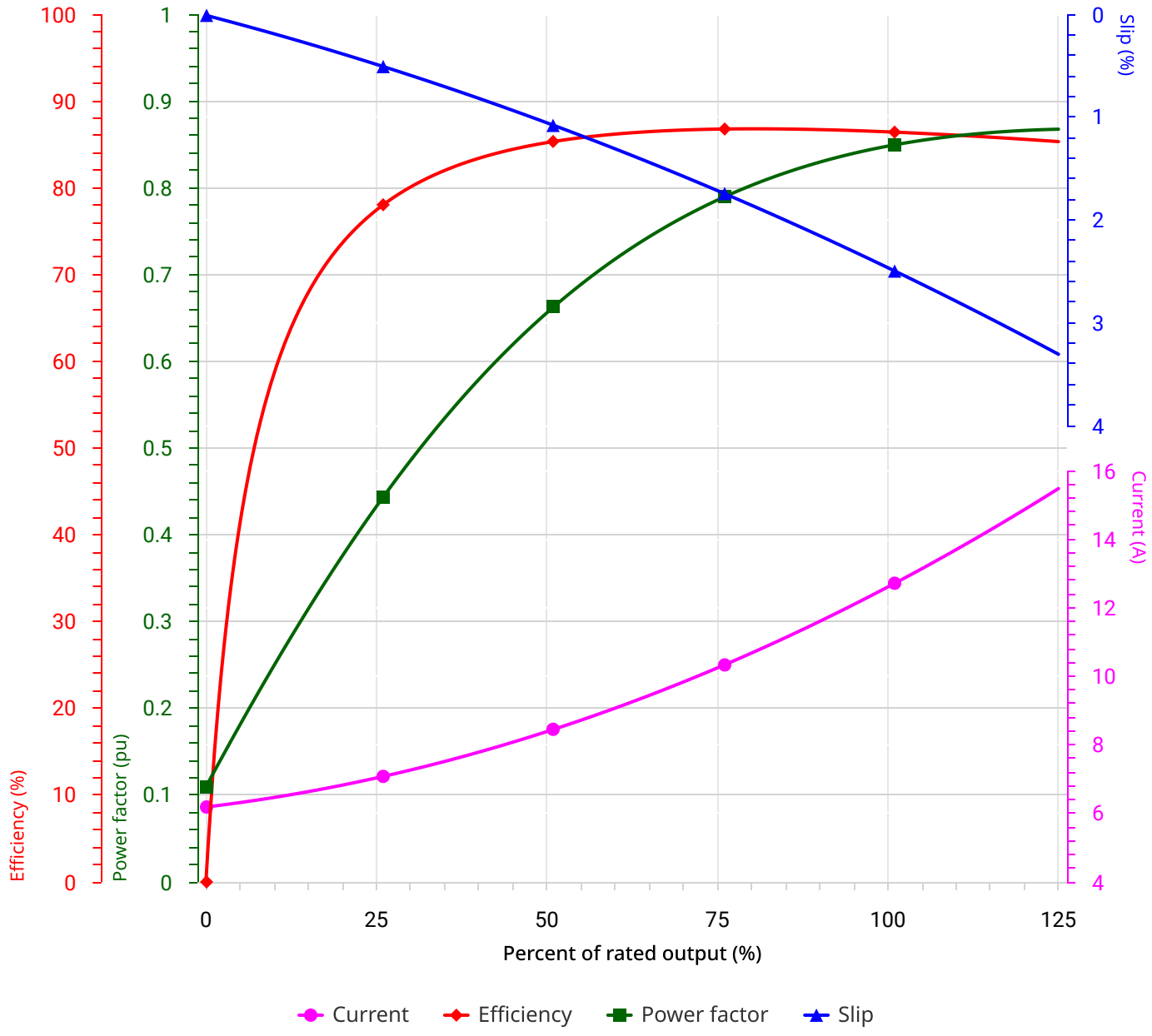
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 12676949



Performance	: 5 HP (3.7 kW) 208/230/460V 60Hz 2P 182/4JM

Rated current	: 13.5/12.6/6.32 A	Moment of inertia (J)	: 0.0058 kgm²
LRC	: 7.6 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.03 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

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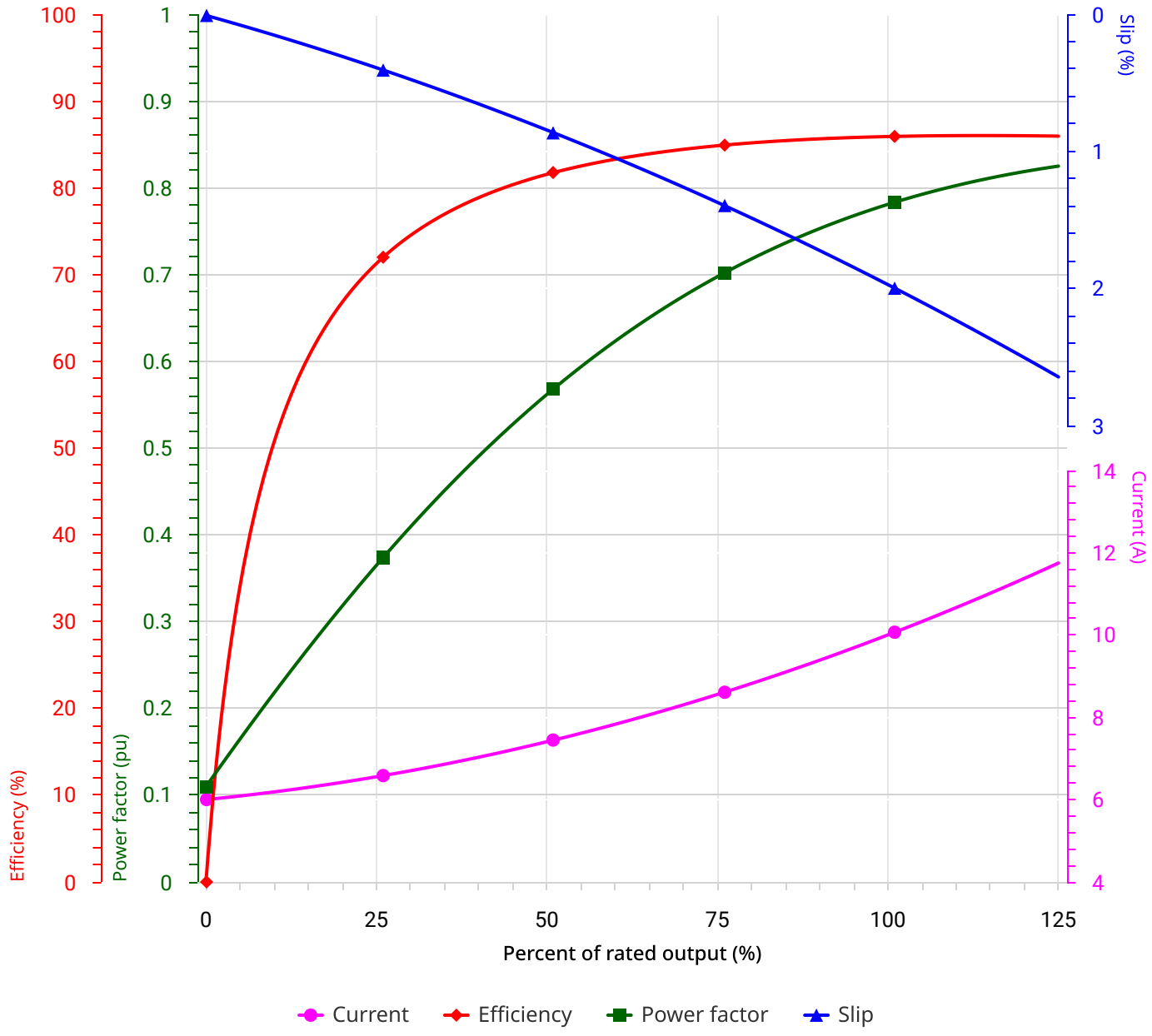
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 12676949



Performance	: 3 HP (2.2 kW) 190/380V 50Hz 2P 182/4JM

Rated current	: 9.98/4.99 A	Moment of inertia (J)	: 0.0058 kgm²
LRC	: 9.2 Code M	Duty cycle	: Cont.(S1)
Rated torque	: 0.741 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.00
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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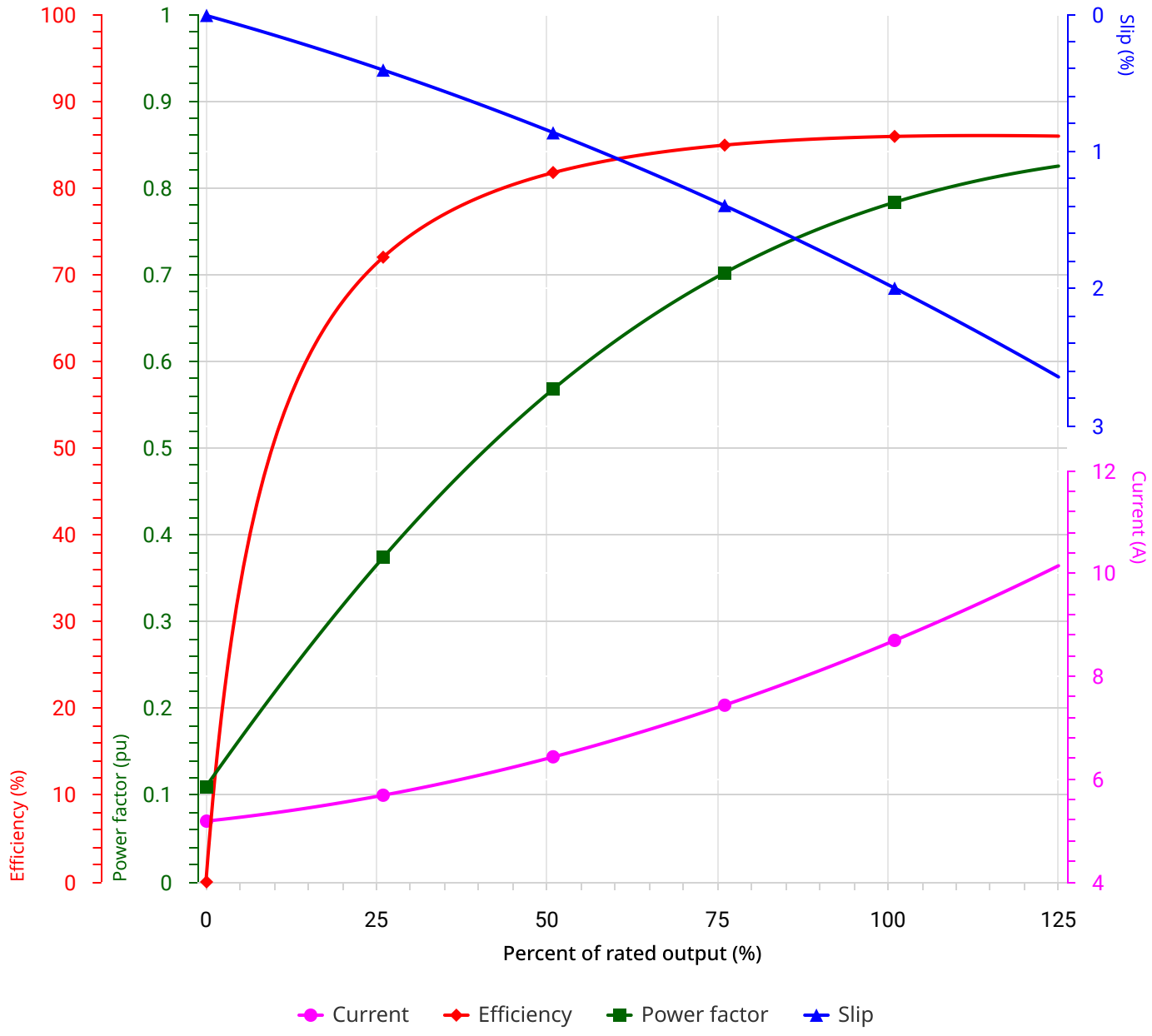
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Performance	: 3 HP (2.2 kW) 220V 50Hz 2P 182/4JM

Rated current	: 8.62 A	Moment of inertia (J)	: 0.0058 kgm²
LRC	: 9.2 Code M	Duty cycle	: Cont.(S1)
Rated torque	: 1.00 kgfm	Insulation class	: F
Locked rotor torque	: 225 %	Service factor	: 1.00
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: 00002

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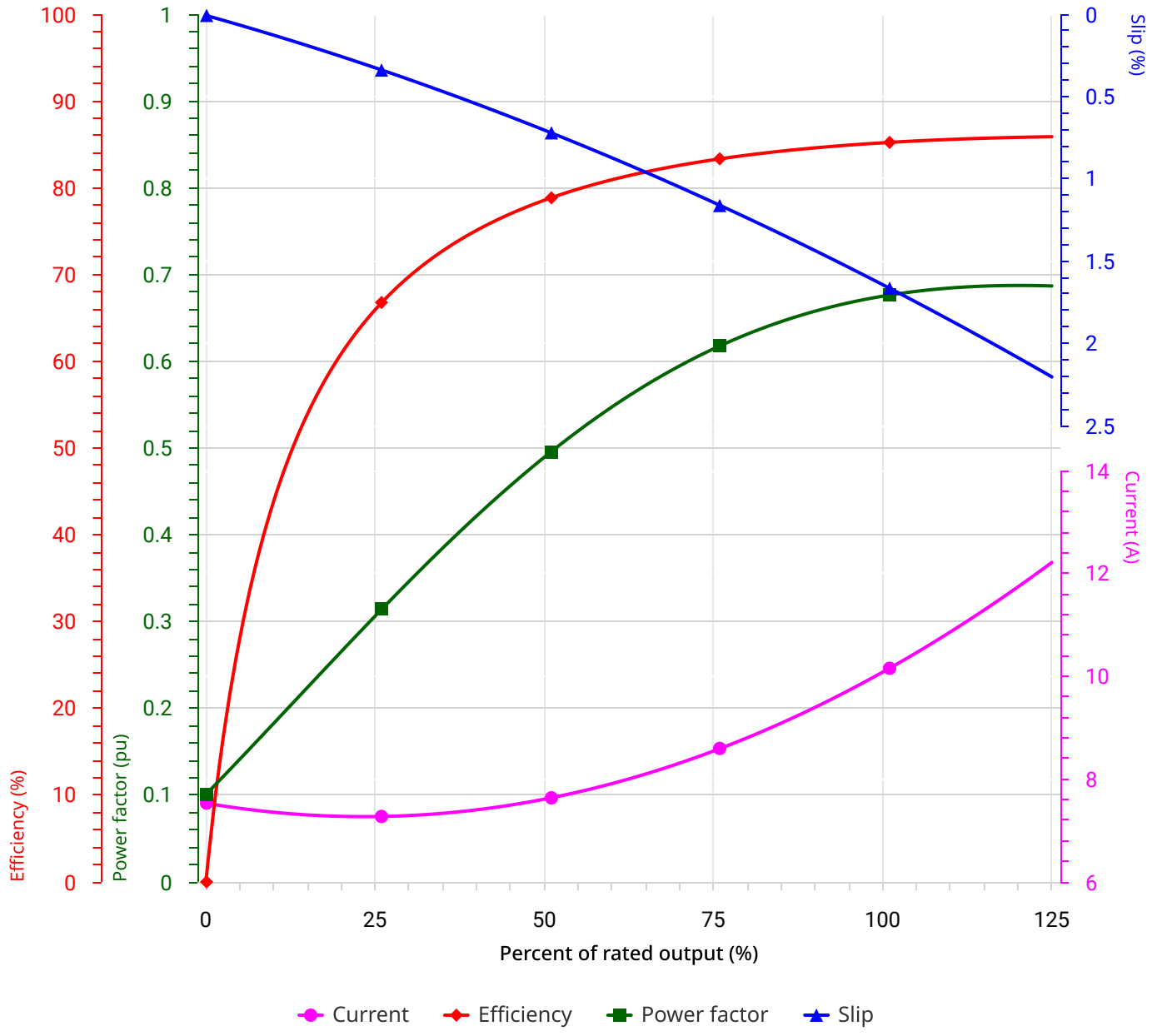
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 12676949



Performance	: 3 HP (2.2 kW) 220/415V 50Hz 2P 182/4JM

Rated current	: 10.0/5.30 A	Moment of inertia (J)	: 0.0058 kgm²
LRC	: 9.8 Code N	Duty cycle	: Cont.(S1)
Rated torque	: 0.738 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 490 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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