DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 13405270

Frame	: 143/5JM	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: W-6/V18R(D)
Duty cycle	: S1	Rotation	: Both
Ambient temperature	: -20 °C to +40 °C	Starting method	: Direct On Line
Altitude	: 1000 m	Approx. weight	: 19.9 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.006 kgm²
Design	: B		

Output		1.5 HP (1.1 kW)	1 HP (0.75 kW)	1 HP (0.75 kW)
Poles		4	4	4
Frequency		60 Hz	50 Hz	50 Hz
Rated voltage		230/460 V	190/380 V	220/415 V
Rated current		4.14/2.07 A	3.64/1.82 A	3.49/1.85 A
L. R. Amperes		36.0/18.0 A	31.7/15.8 A	33.5/17.8 A
LRC		8.7 Code L	8.7 Code M	9.6 Code P
No load current		2.40/1.20 A	2.36/1.18 A	2.56/1.36 A
Rated speed		1760 rpm	1460 rpm	1470 rpm
Slip		2.22 %	2.67 %	2.00 %
Rated torque		0.619 kgfm	0.497 kgfm	0.494 kgfm
Locked rotor torque		280 %	290 %	380 %
Breakdown torque		330 %	380 %	470 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level		52 dB(A)	49 dB(A)	49 dB(A)
Locked rotor time		15 s (hot) 27 s (cold)	0 s (hot) 0 s (cold)	0 s (hot) 0 s (cold)
Efficiency (%)	50%	84.0	81.8	79.2
	75%	86.5	84.4	83.1
	100%	86.5	84.8	84.4
Power Factor	Start	0.64	0.69	0.71
	50%	0.56	0.50	0.43
	75%	0.69	0.64	0.57
	100%	0.77	0.74	0.67
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
				2026/10/29

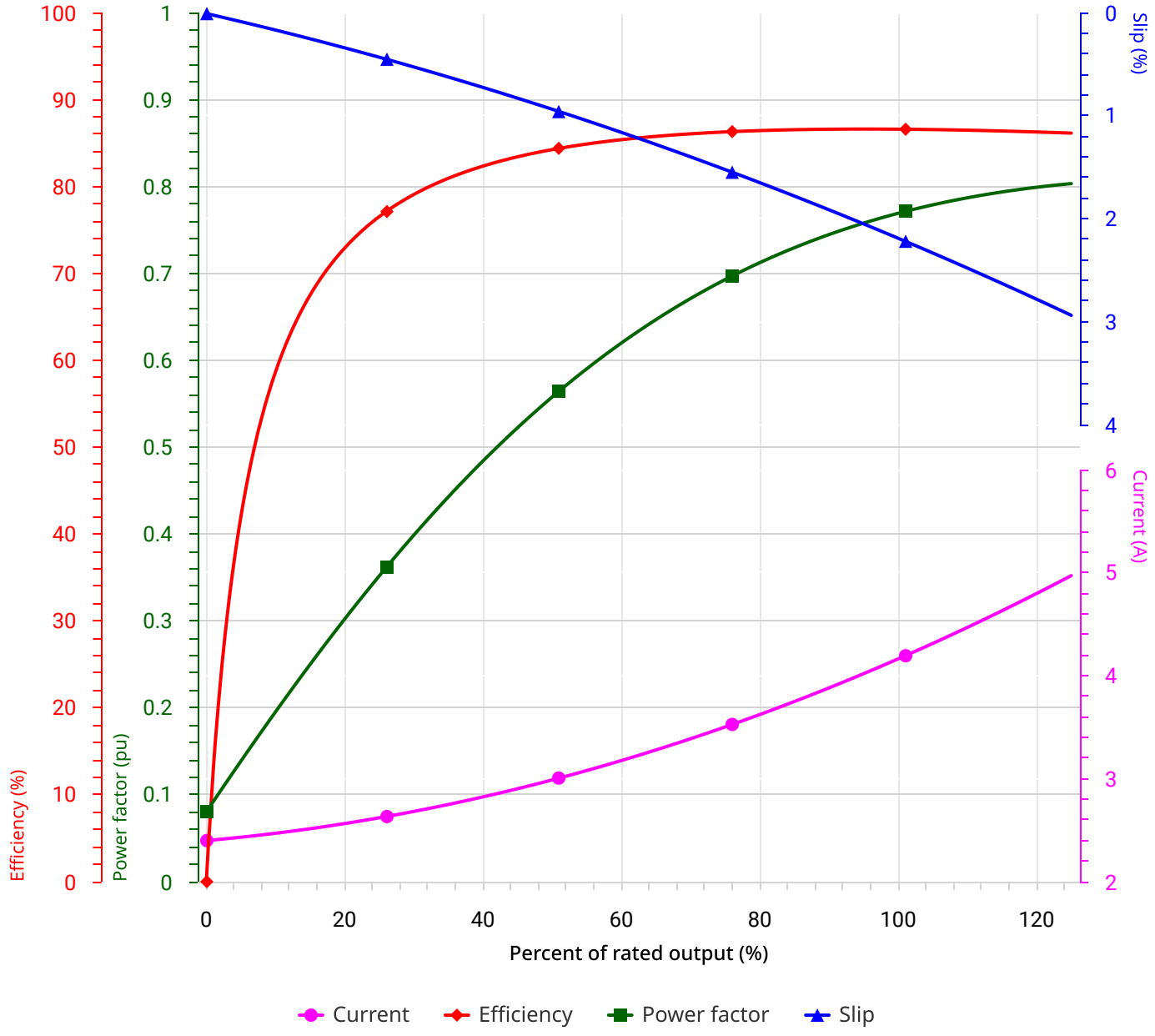
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 13405270



Performance	: 1.5 HP (1.1 kW) 208/230/460V 60Hz 4P 143/5JM

Rated current	: 4.58/4.14/2.07 A	Moment of inertia (J)	: 0.006 kgm²
LRC	: 8.7 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

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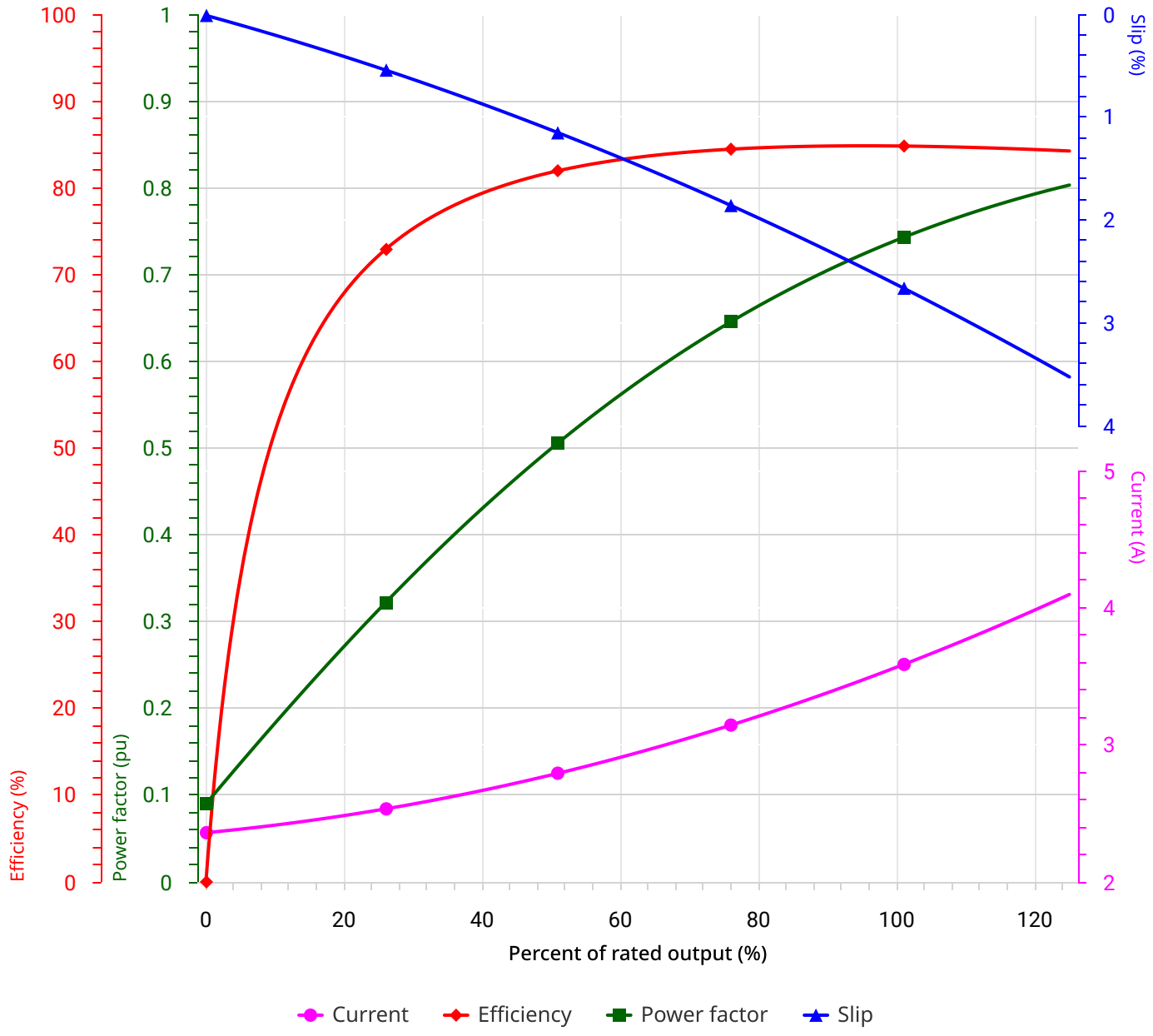
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 13405270



Performance	: 1 HP (0.75 kW) 190/380V 50Hz 4P 143/5JM

Rated current	: 3.64/1.82 A	Moment of inertia (J)	: 0.006 kgm²
LRC	: 8.7 Code M	Duty cycle	: Cont.(S1)
Rated torque	: 0.497 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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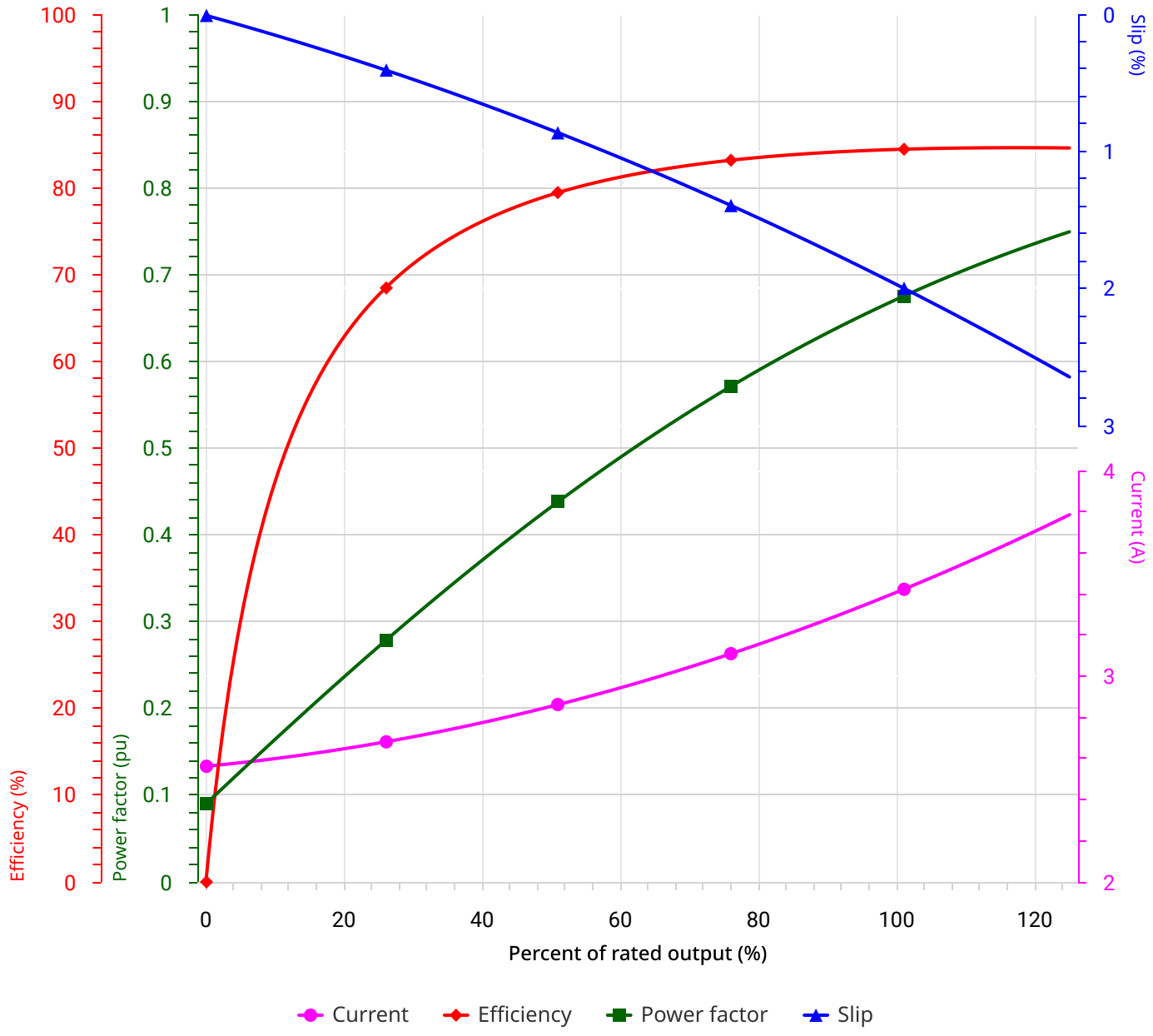
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Three Phase Induction Motor - Squirrel Cage

Customer	:
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Product code	: 13405270



Performance	: 1 HP (0.75 kW) 220/415V 50Hz 4P 143/5JM

Rated current	: 3.49/1.85 A	Moment of inertia (J)	: 0.006 kgm²
LRC	: 9.6 Code P	Duty cycle	: Cont.(S1)
Rated torque	: 0.494 kgfm	Insulation class	: F
Locked rotor torque	: 380 %	Service factor	: 1.15
Breakdown torque	: 470 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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