DATA SHEET

Three Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 13482796

Frame	: 213/5	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	: 59.2 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0546 kgm²
Design	: B		

Output		10 HP (7.5 kW)	7.5 HP (5.5 kW)	7.5 HP (5.5 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		24.4/12.2 A	22.2/11.1 A	20.6/10.9 A
L. R. Amperes		176/88.0 A	160/79.9 A	177/93.9 A
LRC		7.2 Code H	7.2 Code H	8.6 Code L
No load current		10.6/5.30 A	10.4/5.20 A	11.5/6.10 A
Rated speed		1770 rpm	1470 rpm	1475 rpm
Slip		1.67 %	2.00 %	1.67 %
Rated torque		4.10 kgfm	3.70 kgfm	3.69 kgfm
Locked rotor torque		200 %	230 %	270 %
Breakdown torque		290 %	300 %	370 %
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Noise level		59 dB(A)	56 dB(A)	56 dB(A)
Locked rotor time		14 s (hot) 25 s (cold)	23 s (hot) 41 s (cold)	19 s (hot) 34 s (cold)
Efficiency (%)	50%	90.2	89.0	89.1
	75%	91.0	89.4	89.7
	100%	91.7	89.6	89.8
Power Factor	Start	0.61	0.60	0.61
	50%	0.68	0.64	0.58
	75%	0.78	0.78	0.72
	100%	0.84	0.84	0.78
Losses at normative operating points (speed;torque), in percentage of rated output power				
P1 (0,9;1,0)		8.80	11.29	11.05
P2 (0,5;1,0)		7.72	9.90	9.69
P3 (0,25;1,0)		7.38	9.46	9.26
P4 (0,9;0,5)		4.17	5.34	5.23
P5 (0,5;0,5)		3.01	3.86	3.78
P6 (0,5;0,25)		1.99	2.55	2.50
P7 (0,25;0,25)		1.46	1.88	1.84

	Drive end	Non drive end
Bearing type	6209-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date

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Checked by			Page	Revision
Date	2026/10/20		1/4	0

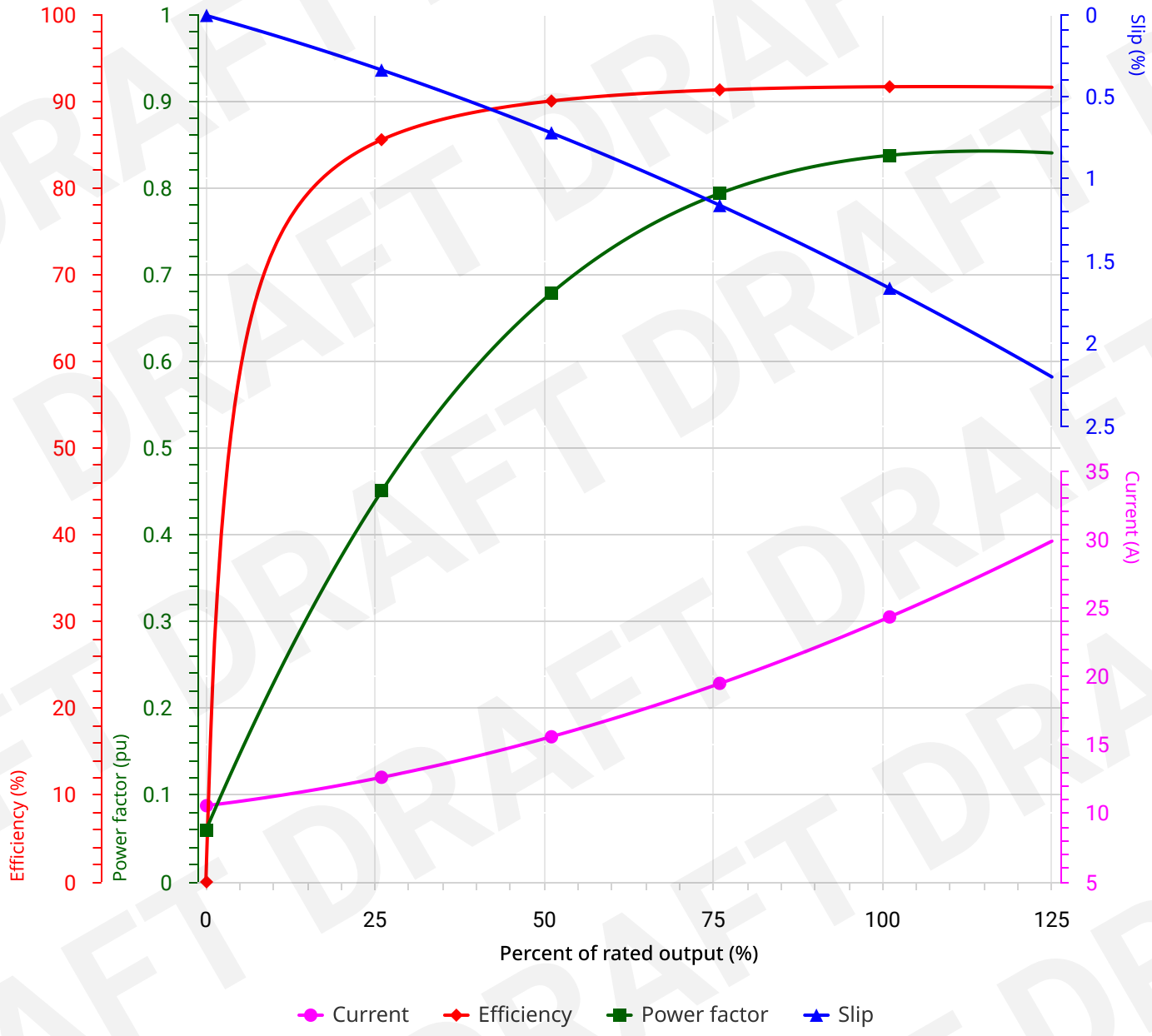
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LOAD PERFORMANCE CURVE

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PRELIMINARY DOCUMENT

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 13482796



Performance	: 10 HP (7.5 kW) 208/230/460V 60Hz 4P 213/5

Rated current	: 27.4/24.4/12.2 A	Moment of inertia (J)	: 0.0546 kgm²
LRC	: 7.2 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 4.10 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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Date	2026/10/20		2/4	0

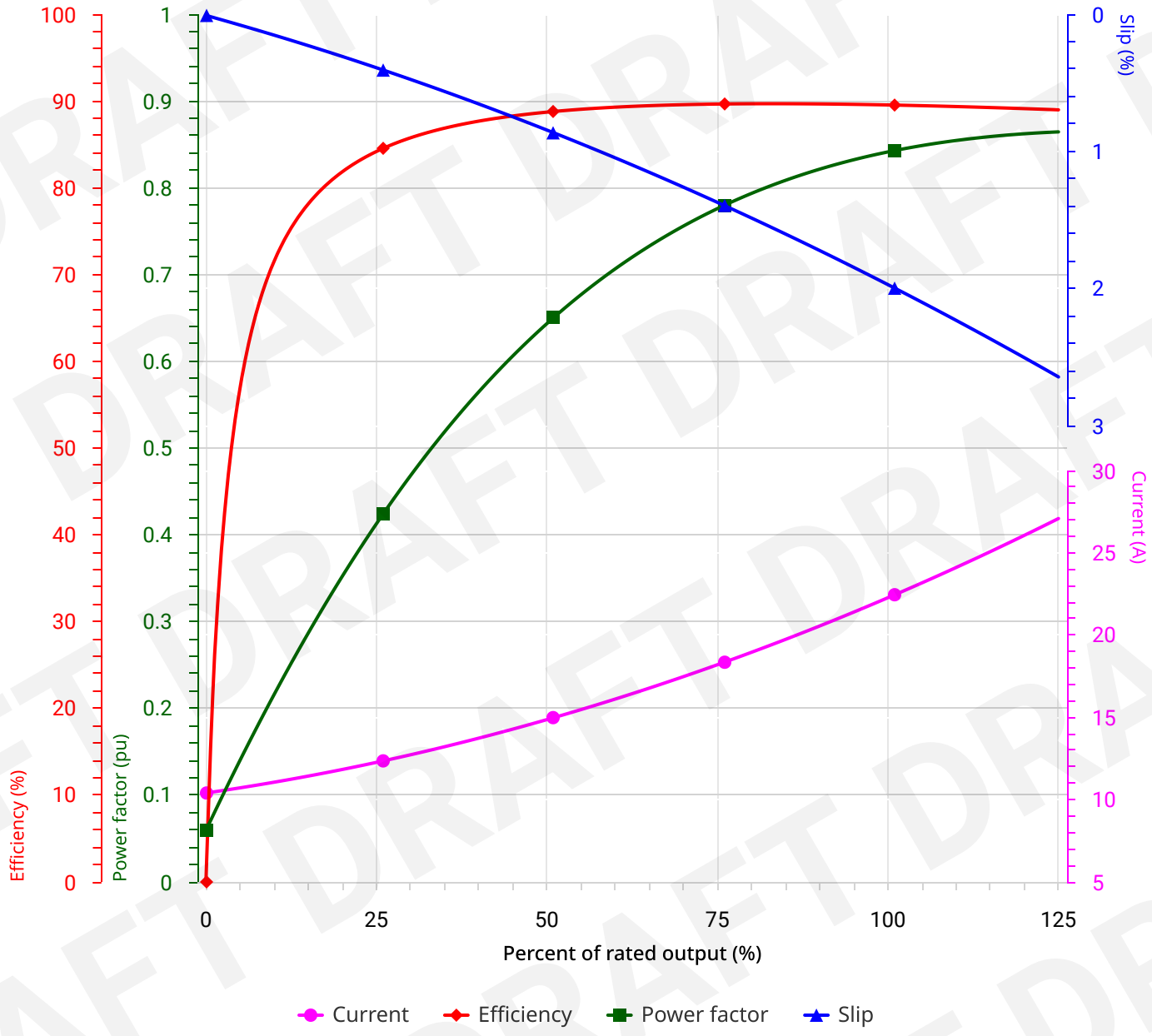
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PRELIMINARY DOCUMENT

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 13482796



Performance	: 7.5 HP (5.5 kW) 190/380V 50Hz 4P 213/5

Rated current	: 22.2/11.1 A	Moment of inertia (J)	: 0.0546 kgm²
LRC	: 7.2 Code H	Duty cycle	: Cont.(S1)
Rated torque	: 3.70 kgfm	Insulation class	: F
Locked rotor torque	: 230 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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Checked by			Page	Revision
Date	2026/10/20		3/4	0

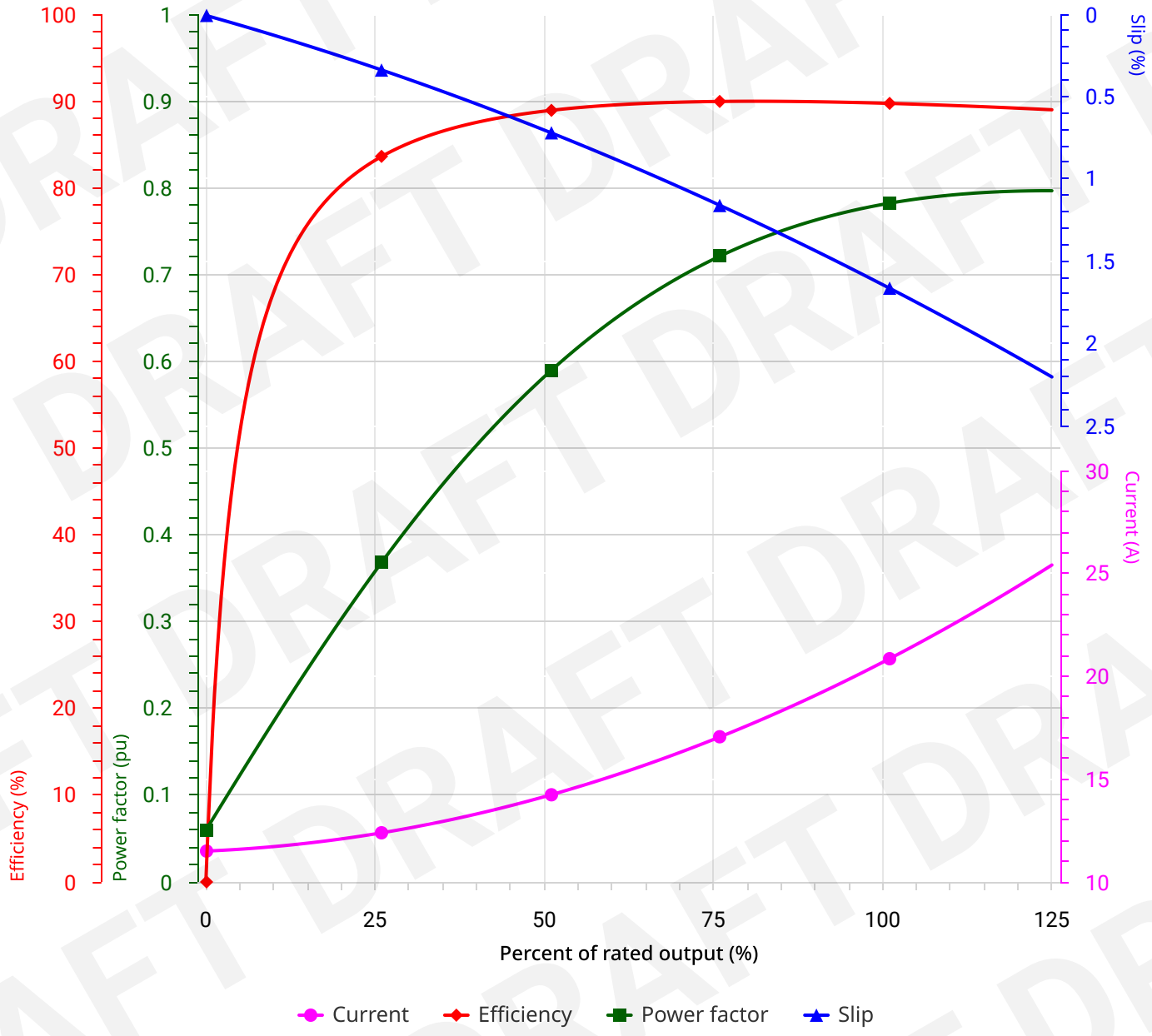
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PRELIMINARY DOCUMENT

Customer	:
Product line	: W01 - ODP - Nema Premium Efficiency JM Derating
Product code	: 13482796



Performance	: 7.5 HP (5.5 kW) 220/415V 50Hz 4P 213/5

Rated current	: 20.6/10.9 A	Moment of inertia (J)	: 0.0546 kgm²
LRC	: 8.6 Code L	Duty cycle	: Cont.(S1)
Rated torque	: 3.69 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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