

DATA SHEET

PRELIMINARY
DOCUMENT



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W01 - ODP - Premium Efficiency (DOE) Derating
Product code : 13997115

Frame : 56H	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 : 17.9 kg
Protection degree : IP21	Moment of inertia (J) : 0.0054 kgm ²
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	220/415 V
Rated current	7.18/3.59 A	4.98/2.49 A	4.66/2.47 A
L. R. Amperes	57.4/28.7 A	48.8/24.4 A	49.4/26.2 A
LRC	8.0 Code J	9.8 Code M	10.6 Code P
No load current	2.60/1.30 A	2.46/1.23 A	2.74/1.45 A
Rated speed	3480 rpm	2940 rpm	2950 rpm
Slip	3.33 %	2.00 %	1.67 %
Rated torque	0.626 kgfm	0.370 kgfm	0.369 kgfm
Locked rotor torque	230 %	460 %	560 %
Breakdown torque	300 %	550 %	660 %
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)	8 s (hot) 14 s (cold)
Efficiency (%)	50%	84.0	80.7
	75%	85.5	84.4
	100%	85.5	82.7
Power Factor	Start	0.68	0.73
	50%	0.76	0.59
	75%	0.86	0.72
	100%	0.9	0.81
Losses at normative operating points (speed;torque), in percentage of rated output power			
P1 (0,9;1,0)	20.11	26.00	24.97
P2 (0,5;1,0)	18.86	24.38	23.41
P3 (0,25;1,0)	17.00	21.98	21.10
P4 (0,9;0,5)	8.81	11.39	10.94
P5 (0,5;0,5)	6.20	8.02	7.70
P6 (0,5;0,25)	3.74	4.83	4.64
P7 (0,25;0,25)	2.57	3.32	3.19

	Drive end	Non drive end
Bearing type	6204-ZZ	6202-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Notes:

Rev.	Changes Summary	Performed	Checked	Date
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Date	2026/10/20			

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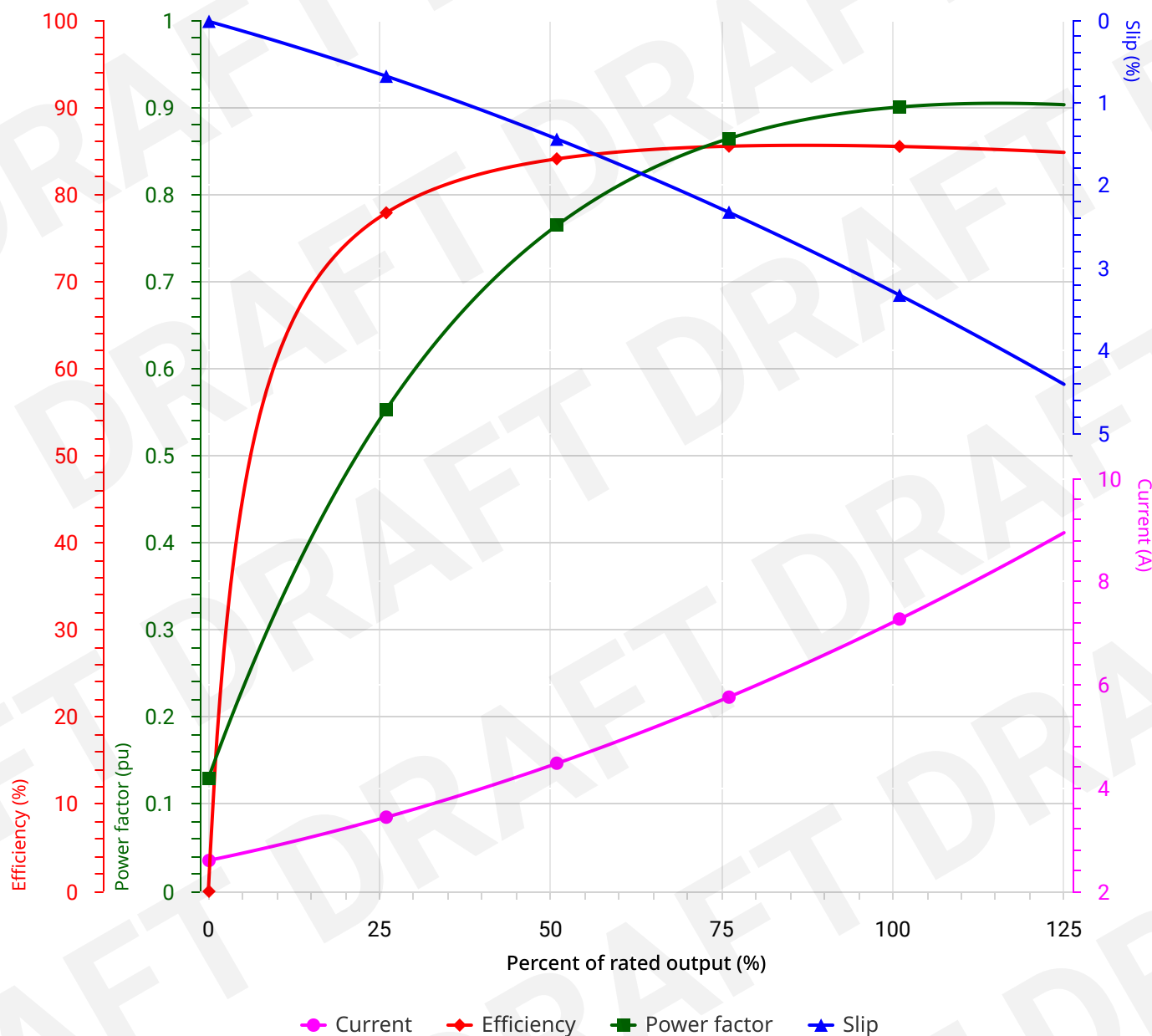
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Performance : 3 HP (2.2 kW) 208/230/460V 60Hz 2P 56H

Rated current : 7.94/7.18/3.59 A
LRC : 8.0 Code J
Rated torque : 0.626 kgfm
Locked rotor torque : 230 %
Breakdown torque : 300 %
Rated speed : 3480 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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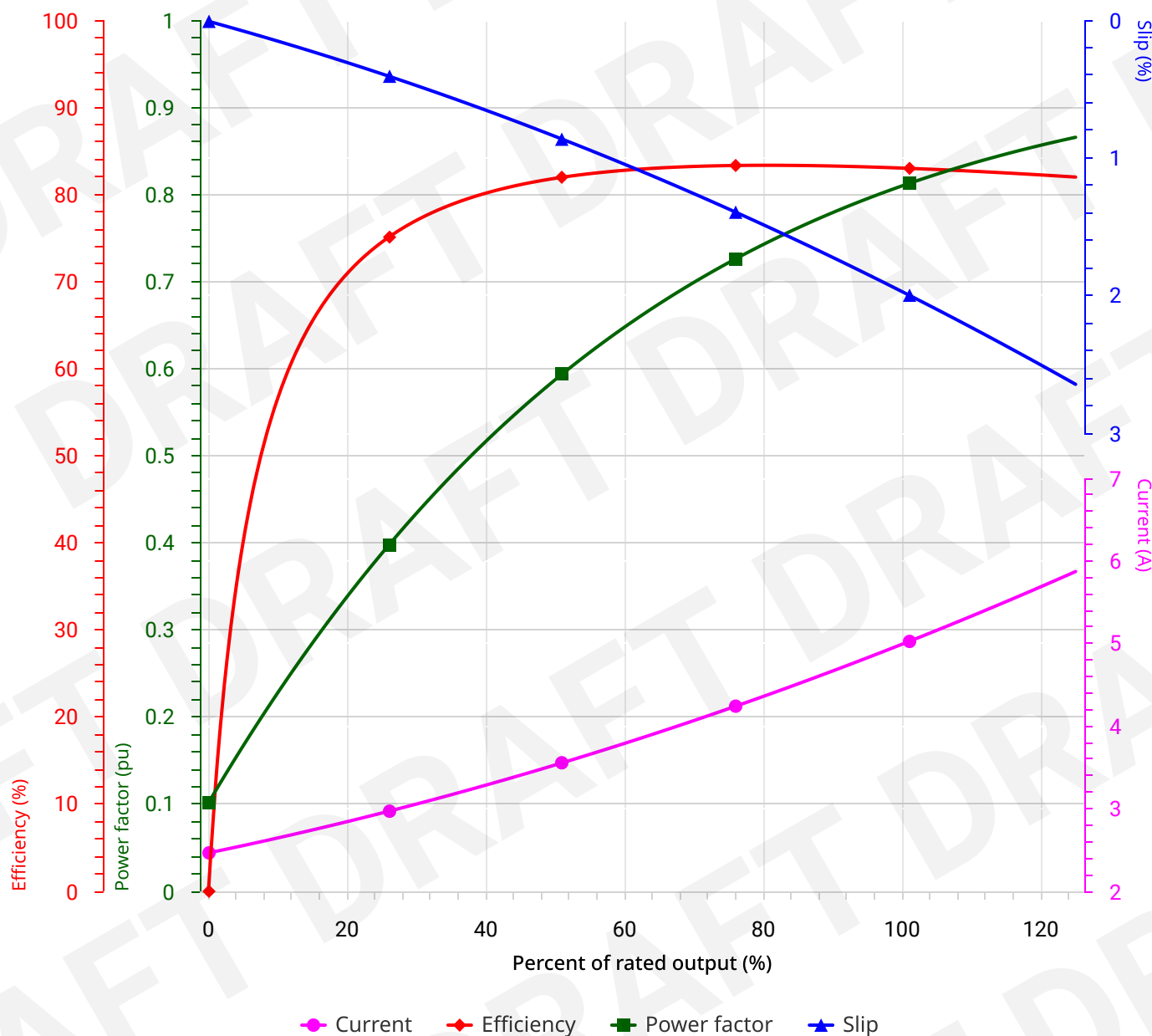
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Performance : 1.5 HP (1.1 kW) 190/380V 50Hz 2P 56H

Rated current : 4.98/2.49 A	Moment of inertia (J) : 0.0054 kgm ²
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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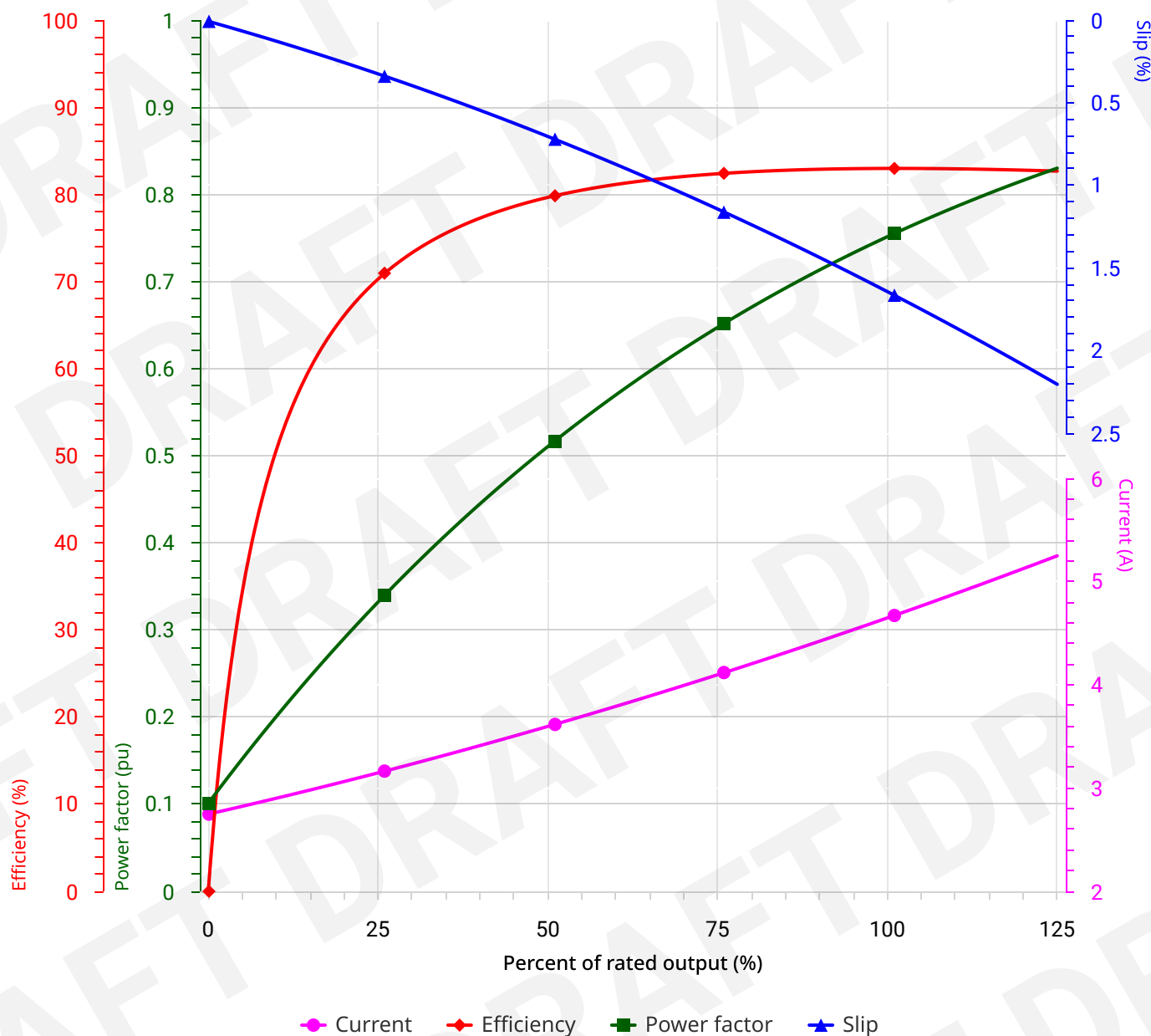
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Three Phase Induction Motor - Squirrel Cage

Customer :

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Performance : 1.5 HP (1.1 kW) 220/415V 50Hz 2P 56H

Rated current : 4.66/2.47 A	Moment of inertia (J) : 0.0054 kgm ²
LRC : 10.6 Code P	Duty cycle : Cont.(S1)
Rated torque : 0.369 kgfm	Insulation class : F
Locked rotor torque : 560 %	Service factor : 1.00
Breakdown torque : 660 %	Temperature rise : 80 K
Rated speed : 2950 rpm	Design : A

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