

DATA SHEETPRELIMINARY
DOCUMENT**Three Phase Induction Motor - Squirrel Cage**

Customer :

Product line : W22 Brake - Nema Premium Efficiency
Product code : 14103843

Frame	: 182/4T	Locked rotor time	: 23 s (hot) 41 s (cold)
Output	: 3 HP (2.2 kW)	Temperature rise ⁴	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l
Rated current	: 8.02/4.01 A	Protection degree	: IP55
L. R. Amperes	: 65.8/32.9 A	Cooling method	: IC411 - TEFC
LRC	: 8.2 Code K	Mounting	: B3R(D)
No load current	: 4.00/2.00 A	Rotation ¹	: Both
Rated speed	: 1765 rpm	Noise level ²	: 56 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 1.23 kgfm	Approx. weight ³	: 47.7 kg
Locked rotor torque	: 220 %	Design	: B
Pull up torque	: 185 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0143 kgm ²		

Output	Start	50%	75%	100%	Load type	: -
Efficiency (%)	-	87.5	88.5	89.5	Load torque	: -
Power Factor	0.55	0.58	0.69	0.77	Load inertia (J=GD ² /4)	: -

Bearing type	Drive end	Non drive end	Foundation loads	
Lubrication interval	6207-ZZ	6206-ZZ	Max. traction	: 58 kgf
Lubricant amount	-	-	Max. compression	: 106 kgf
Lubricant type	POLYUREA BASED GREASE			

Notes:

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
12.73	11.15	10.84	6.72	4.99	3.67	2.83

Standards	Specification	: MG1 - Part 10	Vibration	: MG1 - Part 7
	Test	: MG1 - Part 12	Tolerance	: MG1 - Part 12
	Noise	: MG1 - Part 9		

This revision replaces and cancel the previous one, which must be eliminated..

(1) Looking the motor from the shaft end.

(2) Measured at 1m and with tolerance of +0dB(A).

(3) Approximate weight, subject to be changed after manufacturing process.

(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG 1-12.

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LOAD PERFORMANCE CURVE

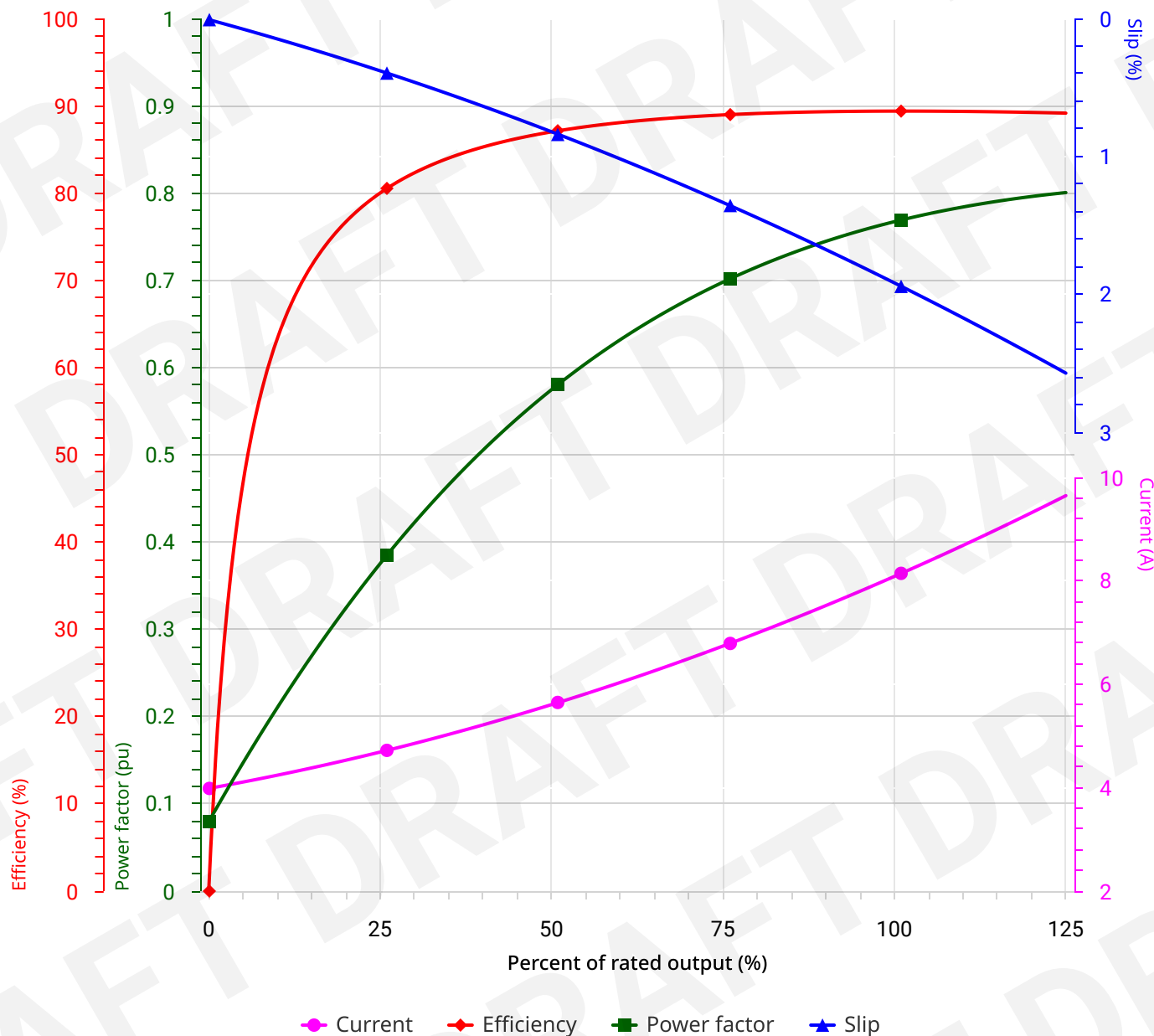
PRELIMINARY
DOCUMENT



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Brake - Nema Premium Efficiency
Product code : 14103843



Performance : 3 HP (2.2 kW) 208/230/460V 60Hz 4P 182/4T

Rated current : 8.65/8.02/4.01 A
LRC : 8.2 Code K
Rated torque : 1.23 kgfm
Locked rotor torque : 220 %
Breakdown torque : 320 %
Rated speed : 1765 rpm

Moment of inertia (J) : 0.0143 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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