DATA SHEET

Single Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer	:

Product line	: W22
Product code	: 14076181

Frame	: 182/4T
Output	: 3 HP (2.2 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 115/208-230 V
Rated current	: 30.2/15.7-15.1 A
L. R. Amperes	: 208/104 A
LRC	: 6.9 Code J
No load current	: 18.0/9.00 A
Rated speed	: 1745 rpm
Slip	: 3.06 %
Rated torque	: 1.25 kgfm
Locked rotor torque	: 290 %
Pull up torque	: 245 %
Breakdown torque	: 270 %
Insulation class	: F
Service factor	: 1.15
Moment of inertia (J)	: 0.0157 kgm²

Locked rotor time	: 8 s (hot) 14 s (cold)
Duty cycle	: S1
Ambient temperature	: -20 °C to +40 °C
Altitude	: 1000 m.a.s.l
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: B3R(D)
Rotation[1]	: Both
Noise level[2]	: 60 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 46.5 kg
Design	:

Output	Start	50%	75%	100%
Efficiency (%)	-	65.0	74.0	77.0
Power Factor	0.89	0.74	0.80	0.82

Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

	Drive end	Non drive end
Bearing type	6207-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	POLYUREA BASED GREASE	

Foundation loads	
Max. traction	: -
Max. compression	: -

Notes:

Standards

Specification	: MG1 - Part 10	Vibration	:
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.

Rev.	Changes Summary	Performed	Checked	Date

Performed by	
Checked by	
Date	2026/10/20

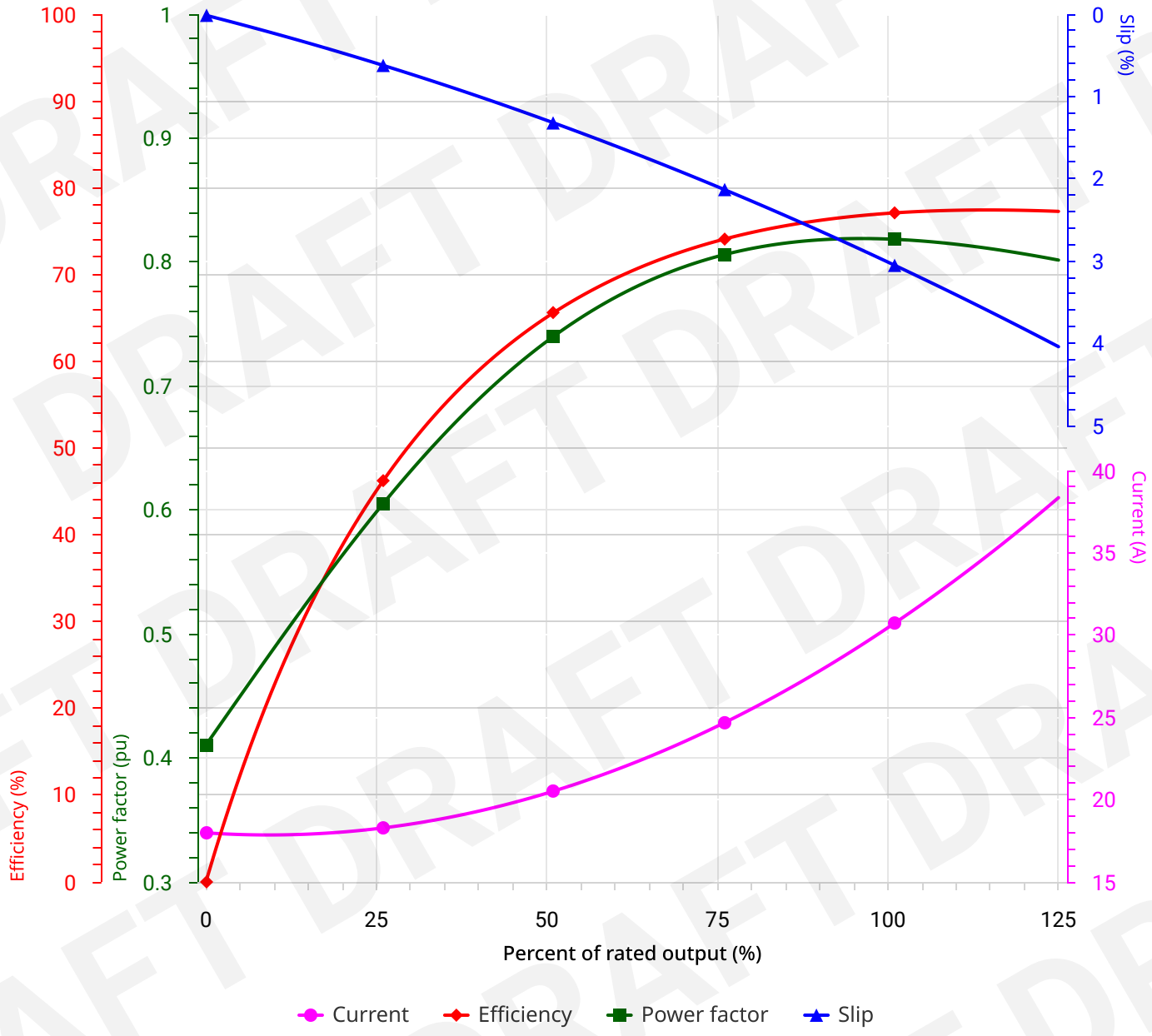
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

PRELIMINARY DOCUMENT

Customer	:
Product line	: W22
Product code	: 14076181



Performance	: 3 HP (2.2 kW) 115/208/230V 60Hz 4P 182/4T

Rated current	: 30.2/15.7/15.1 A	Moment of inertia (J)	: 0.0157 kgm²
LRC	: 6.9 Code J	Duty cycle	: Cont.(S1)
Rated torque	: 1.25 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1745 rpm		

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	2026/10/20		2/2	0

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