

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 14184242

Frame	: 447T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 1175 kg
Protection degree	: IP55	Moment of inertia (J)	: 3.21 kgm <sup>2</sup>
Design	: B		

Output [HP]		200
Poles		4
Frequency [Hz]		60
Rated voltage [V]		575
Rated current [A]		184
L. R. Amperes [A]		1270
LRC [A]		6.9x(Code G)
No load current [A]		59.2
Rated speed [RPM]		1780
Slip [%]		1.11
Rated torque [kgfm]		81.5
Locked rotor torque [%]		229
Breakdown torque [%]		240
Service factor		1.15
Temperature rise		80 K
Locked rotor time		45s (cold) 25s (hot)
Noise level <sup>2</sup>		82.0 dB(A)
Efficiency (%)	25%	
	50%	95.8
	75%	96.2
	100%	96.2
Power Factor	25%	
	50%	0.70
	75%	0.80
	100%	0.85

	Drive end	Non drive end	Foundation loads
Bearing type	: NU-319 C3	6316 C3	Max. traction : 1124 kgf
Sealing	: Viton	Viton Seal	Max. compression : 2299 kgf
	Oil Seal		
Lubrication interval	: 4706 h	8569 h	
Lubricant amount	: 45 g	34 g	
Lubricant type	: Mobil Polyrex EM		

Notes

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 +3dB(A).
- (3) Approximate weight subject to changes 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.

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### Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	130 °C
2	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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# LOAD PERFORMANCE CURVE

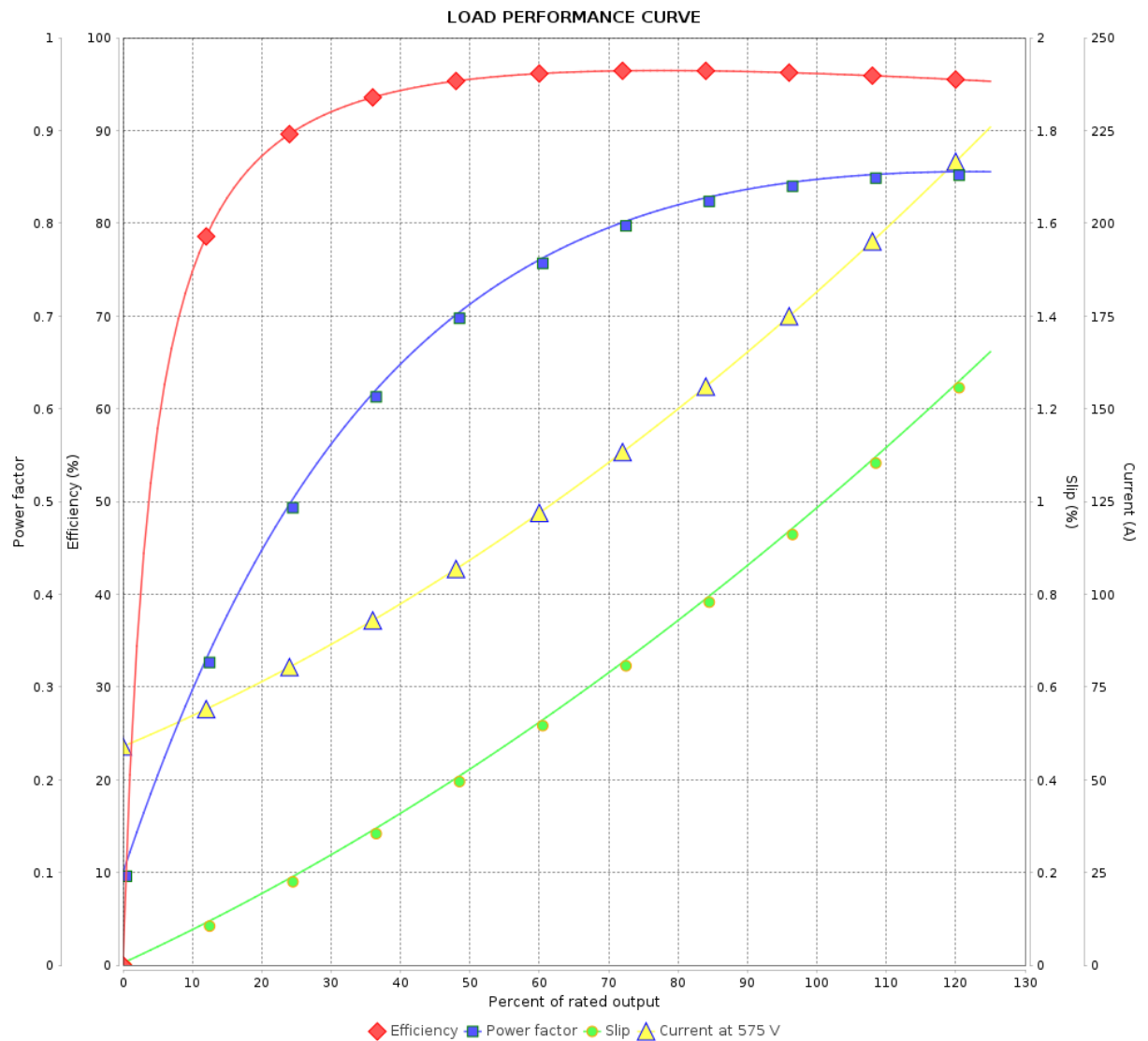
## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14184242



Performance : 575 V 60 Hz 4P

Rated current	: 184 A	Moment of inertia (J)	: 3.21 kgm <sup>2</sup>
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 81.5 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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