

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : General NEMA Premium Efficiency Three-Phase  
Product code : 10722643

Frame	: 184T	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 105 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.19 A	Protection degree	: IP21
L. R. Amperes	: 37.9 A	Cooling method	: IC01 - ODP
LRC	: 7.3x(Code J)	Mounting	: F-1
No load current	: 2.72 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1755 rpm	Noise level <sup>2</sup>	: 55.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 2.07 kgfm	Approx. weight <sup>3</sup>	: 32.0 kg
Locked rotor torque	: 210 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0147 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	88.5	89.5	89.5	Max. traction	: 109 kgf
Power Factor	0.59	0.72	0.80	Max. compression	: 141 kgf

	Drive end	Non drive end
Bearing type	: 6206 ZZ	6205 ZZ
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: -	-
Lubricant amount	: -	-
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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# LOAD PERFORMANCE CURVE

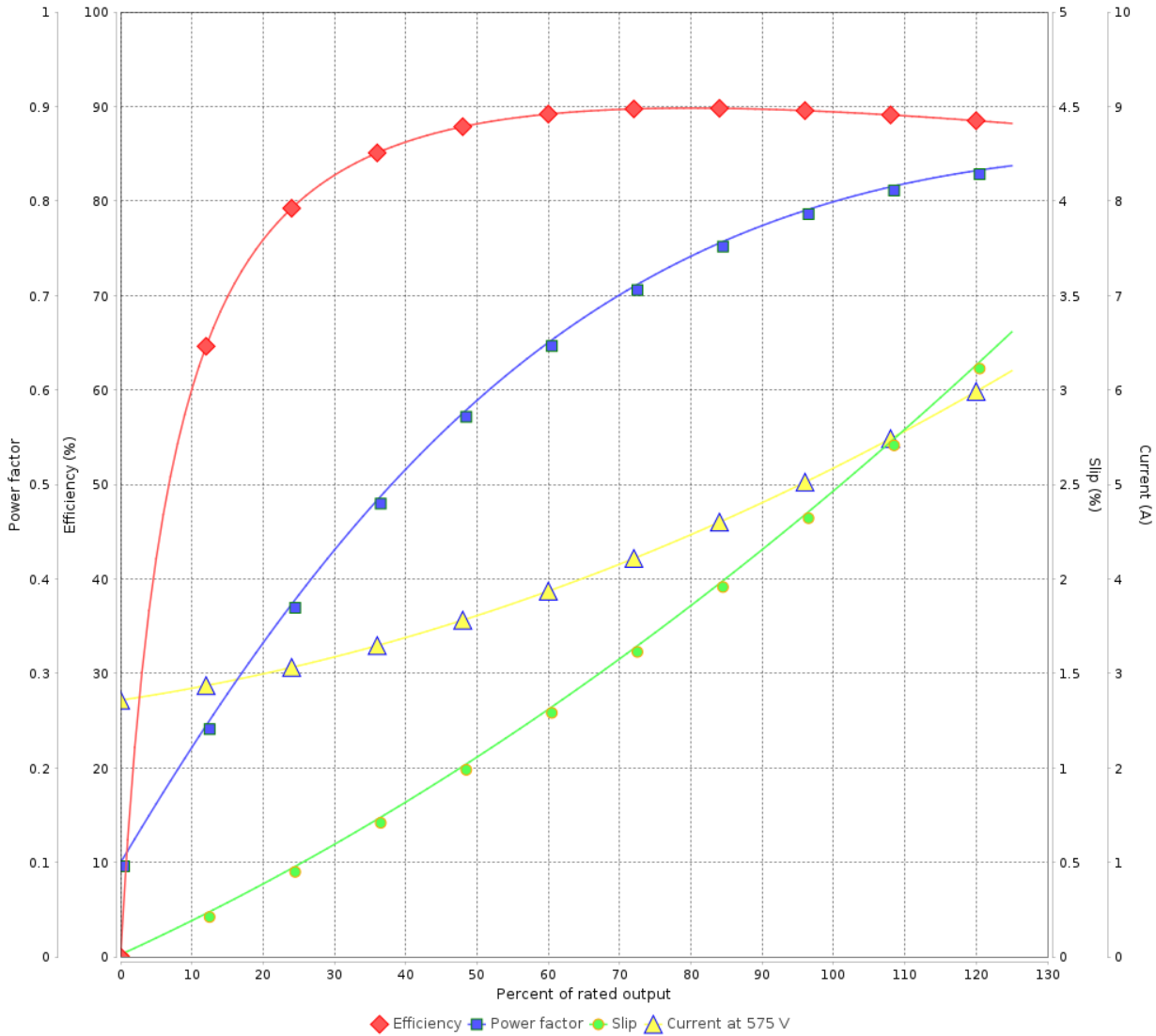
Three Phase Induction Motor - Squirrel Cage



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

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10722643

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 5.19 A	Moment of inertia (J)	: 0.0147 kgm <sup>2</sup>
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 2.07 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 105 K
Rated speed	: 1755 rpm	Design	: B

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