

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase Product code : 11993756

Frame	: E143/5TC	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 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	: 1.20 A	Protection degree	: IP21
L. R. Amperes	: 9.36 A	Cooling method	: IC01 - ODP
LRC	: 7.8x(Code L)	Mounting	: F-1
No load current	: 0.800 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1740 rpm	Noise level ²	: 50.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0.417 kgfm	Approx. weight ³	: 20.9 kg
Locked rotor torque	: 310 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0053 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	80.0	81.5	82.5	Max. traction	: 31 kgf
Power Factor	0.57	0.68	0.76	Max. compression	: 52 kgf

	Drive end	Non drive end
Bearing type	: 6205 ZZ	6204 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

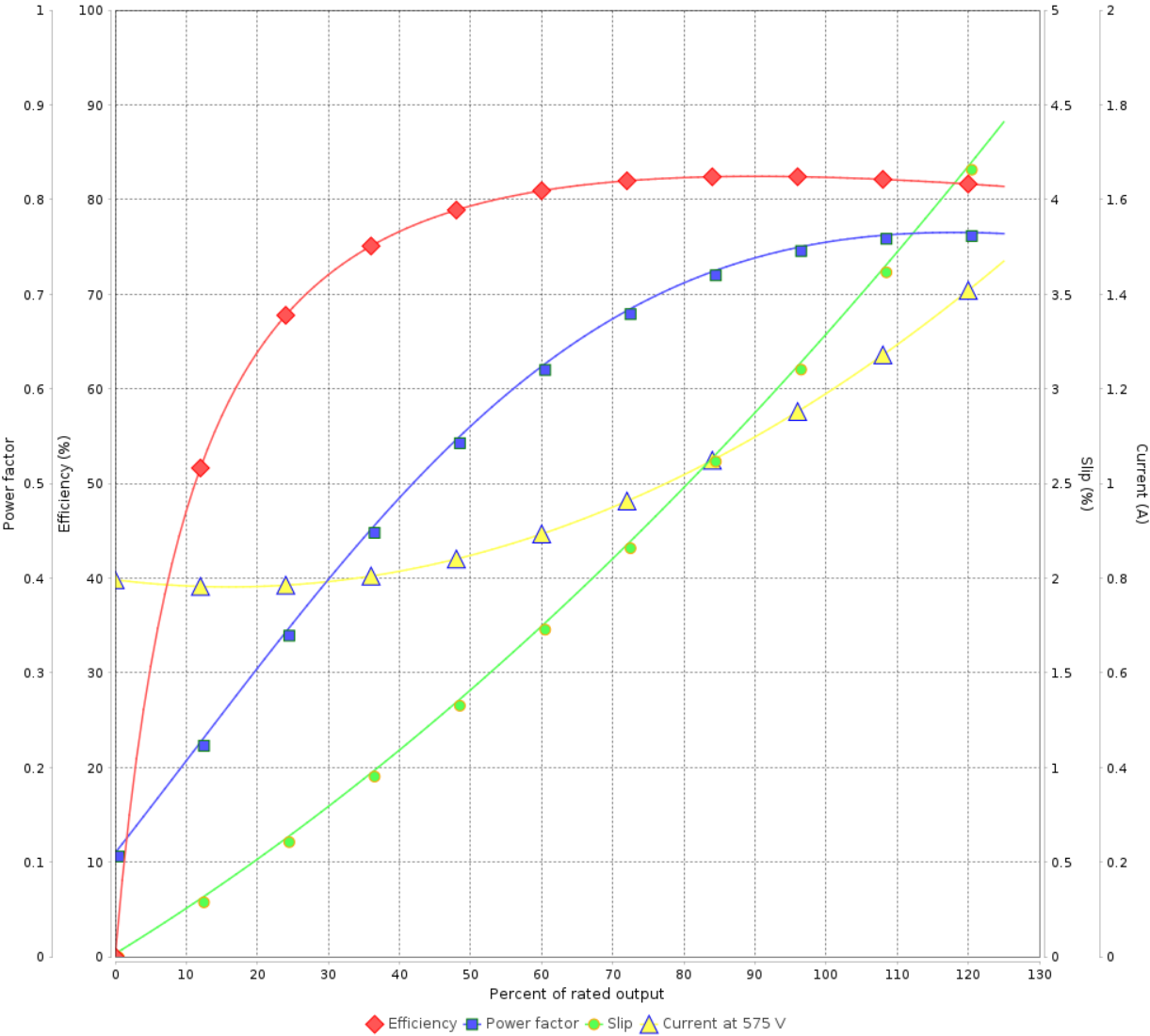
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LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P			
Rated current	: 1.20 A	Moment of inertia (J)	: 0.0053 kgm ²
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.417 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1740 rpm	Design	: B

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