

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12651151

Catalog # : 005120T3E215TC-S

Frame : 213/5TC
Output : 5 HP (3.7 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 13.5/6.74 A
L. R. Amperes : 79.5/39.8 A
LRC : 5.9x(Code H)
No load current : 7.10/3.55 A
Rated speed : 1175 rpm
Slip : 2.08 %
Rated torque : 22.3 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 1.08 sq.ft.lb
Design : B

Locked rotor time : 52s (cold) 29s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 55.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 135 lb

Output	25%		50%		75%		100%	
Efficiency (%)	88.3	89.2	88.5	87.5	89.5	87.2	89.5	85.1
	87.0		86.5		87.3		86.4	
Power Factor	0.34	0.40	0.58	0.66	0.70	0.76	0.77	0.81
	0.34		0.58		0.71		0.77	

Foundation loads
Max. traction : 283 lb
Max. compression : 419 lb

	Drive end	Non drive end
Bearing type :	6208 ZZ	6206 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	27/03/2024			

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Revision