

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency  
Three-Phase

Product code : 12677331

Catalog # : 00312ET3ER213TC-S

Frame : 213/5TC  
Output : 3 HP (2.2 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 8.34/4.17 A  
L. R. Amperes : 53.4/26.7 A  
LRC : 6.4x(Code H)  
No load current : 4.71/2.36 A  
Rated speed : 1175 rpm  
Slip : 2.08 %  
Rated torque : 13.4 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 290 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 1.08 sq.ft.lb  
Design : B

Locked rotor time : 82s (cold) 46s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP55  
Cooling method : IC411 - TEFC  
Mounting : W-6  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 55.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 139 lb

Output	25%		50%		75%		100%	
Efficiency (%)	84.3	87.4	85.5	86.9	88.5	87.6	89.5	86.7
	86.1		86.2		87.8		87.6	
Power Factor	0.32	0.37	0.55	0.62	0.67	0.73	0.74	0.79
	0.32		0.55		0.68		0.75	

Foundation loads  
Max. traction : 177 lb  
Max. compression : 315 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6208 ZZ	6206 ZZ
Sealing	:	V'Ring	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