

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency  
Three-Phase

Product code : 12845570

Catalog # : 01518ET3H254TC-S

Frame : 254/6TC  
Output : 15 HP (11 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 14.6 A  
L. R. Amperes : 94.6 A  
LRC : 6.5x(Code G)  
No load current : 6.92 A  
Rated speed : 1770 rpm  
Slip : 1.67 %  
Rated torque : 44.5 ft.lb  
Locked rotor torque : 250 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 2.15 sq.ft.lb  
Design : B

Locked rotor time : 34s (cold) 19s (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 : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 68.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 226 lb

Output	50%	75%	100%
Efficiency (%)	91.0	92.4	92.4
Power Factor	0.64	0.76	0.82

Foundation loads  
Max. traction : 527 lb  
Max. compression : 753 lb

	Drive end	Non drive end
Bearing type	6309 Z C3	6208 Z C3
Sealing	V'Ring	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	8 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 1 / 1		
Checked by				
Date	26/03/2024			