

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency  
Three-Phase

Product code : 14331135

Catalog # : 00712OT3H254TC-S

Frame : 254/6TC  
Output : 7.5 HP (5.5 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 8.16 A  
L. R. Amperes : 41.6 A  
LRC : 5.1x(Code F)  
No load current : 4.29 A  
Rated speed : 1175 rpm  
Slip : 2.08 %  
Rated torque : 33.5 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 229 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 2.00 sq.ft.lb  
Design : B

Locked rotor time : 66s (cold) 37s (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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 59.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 187 lb

Output 25% 50% 75% 100%

Efficiency (%) 88.2 88.5 90.2 90.2  
Power Factor 0.33 0.56 0.68 0.75

Foundation loads

Max. traction : 276 lb  
Max. compression : 463 lb

	Drive end	Non drive end
Bearing type :	6309 Z C3	6208 Z C3
Sealing :	Without Bearing Seal	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	27/03/2024			