

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12648444

Catalog # : 00712OT3H254T-S

Frame : 254/6T
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
Rotation¹ : Both (CW and CCW)
Noise level² : 59.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 186 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			