

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12707482

Catalog # : 02536OT3E256T-S

Frame : 254/6T
Output : 25 HP (18.5 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 58.2/29.1 A
L. R. Amperes : 367/183 A
LRC : 6.3x(Code G)
No load current : 22.8/11.4 A
Rated speed : 3530 rpm
Slip : 1.94 %
Rated torque : 37.2 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.9155 sq.ft.lb
Design : B

Locked rotor time : 16s (cold) 9s (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 : 70.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 183 lb

Output	50%	75%	100%
Efficiency (%)	91.0 91.1	91.7 90.3	91.7 88.5
	90.6	90.6	89.6
Power Factor	0.73 0.80	0.83 0.87	0.87 0.90
	0.71	0.82	0.87

Foundation loads
Max. traction : 469 lb
Max. compression : 652 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				
Checked by				
Date	27/03/2024			
			Page	Revision
			1 / 1	