

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12636473

Catalog # : 01518OT3E254TC-S

Frame : 254/6TC
Output : 15 HP (11 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 37.2/18.6 A
L. R. Amperes : 249/125 A
LRC : 6.7x(Code H)
No load current : 19.0/9.50 A
Rated speed : 1775 rpm
Slip : 1.39 %
Rated torque : 44.4 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 1.82 sq.ft.lb
Design : B

Locked rotor time : 30s (cold) 17s (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 : 64.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 203 lb

Output	50%	75%	100%
Efficiency (%)	91.7 91.3	92.4 91.0	93.0 89.7
	90.3	90.9	90.3
Power Factor	0.62 0.71	0.73 0.81	0.80 0.85
	0.62	0.75	0.81

Foundation loads
Max. traction : 592 lb
Max. compression : 795 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 1 / 1		
Checked by				
Date	26/03/2024			
		Revision		