

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12687912

Catalog # : 01518ET3E254T-SG

Frame : 254/6T
Output : 15 HP (11 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 36.4/18.2 A
L. R. Amperes : 237/118 A
LRC : 6.5x(Code G)
No load current : 17.3/8.65 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
Rotation¹ : Both (CW and CCW)
Noise level² : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 212 lb

Output	25%		50%		75%		100%	
Efficiency (%)	90.8	92.5	91.0	91.5	92.4	91.2	92.4	89.9
	91.3		90.9		91.4		90.7	
Power Factor	0.39	0.45	0.64	0.71	0.76	0.81	0.82	0.85
	0.38		0.64		0.76		0.82	

Foundation loads
Max. traction : 616 lb
Max. compression : 828 lb

		<u>Drive end</u>	<u>Non drive end</u>
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				
Checked by				
Date	27/03/2024			
			Page	Revision
			1 / 1	