

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717786

Catalog # : 00509ET3H254T-W22

Frame	: 254/6T	Locked rotor time	: 77s (cold) 43s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 8	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 6.15 A	Protection degree	: IP55
L. R. Amperes	: 32.6 A	Cooling method	: IC411 - TEFC
LRC	: 5.3x(Code H)	Mounting	: F-1
No load current	: 4.32 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 883 rpm	Noise level ²	: 54.0 dB(A)
Slip	: 1.89 %	Starting method	: Direct On Line
Rated torque	: 29.7 ft.lb	Approx. weight ³	: 258 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 3.41 sq.ft.lb		
Design	: B		

Output 50% 75% 100%

Foundation loads

Efficiency (%) 84.7 87.0 87.5

Max. traction : 270 lb

Power Factor 0.48 0.61 0.69

Max. compression : 528 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
13.7	11.9	12.0	7.8	5.9	4.6	3.6

Drive end

Non drive end

Bearing type : 6309 C3

6209 C3

Sealing : V'Ring

V'Ring

Lubrication interval : 20000 h

20000 h

Lubricant amount : 13 g

9 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	29/03/2024			
			Page	Revision
			1 / 1	