

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11573136

Catalog # : 01536ET3H254TF2-W22

Frame : 254T  
 Output : 15 HP (11 kW)  
 Poles : 2  
 Frequency : 60 Hz  
 Rated voltage : 575 V  
 Rated current : 13.8 A  
 L. R. Amperes : 92.2 A  
 LRC : 6.7x(Code G)  
 No load current : 4.24 A  
 Rated speed : 3530 rpm  
 Slip : 1.94 %  
 Rated torque : 22.3 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 270 %  
 Insulation class : F  
 Service factor : 1.25  
 Moment of inertia (J) : 1.26 sq.ft.lb  
 Design : B

Locked rotor time : 45s (cold) 25s (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-2  
 Rotation<sup>1</sup> : Both (CW and CCW)  
 Noise level<sup>2</sup> : 72.0 dB(A)  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 249 lb

Output	25%	50%	75%	100%
Efficiency (%)	89.2	89.5	91.0	91.0
Power Factor	0.53	0.77	0.85	0.88

Foundation loads  
 Max. traction : 164 lb  
 Max. compression : 413 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)
9.4	7.5	6.8	4.8	2.8	1.8	1.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	19000 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		Page 1 / 1		
Checked by				
Date	28/03/2024			
		Revision		