

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12744730

Catalog # : 00709ET3H256T-W22

Frame : 254/6T  
Output : 7.5 HP (5.5 kW)  
Poles : 8  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 8.88 A  
L. R. Amperes : 47.1 A  
LRC : 5.3x(Code G)  
No load current : 5.20 A  
Rated speed : 880 rpm  
Slip : 2.22 %  
Rated torque : 44.8 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 250 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 4.43 sq.ft.lb  
Design : B

Locked rotor time : 59s (cold) 33s (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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 54.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 293 lb

Output 25% 50% 75% 100%

Efficiency (%) 85.2 85.5 87.5 87.5  
Power Factor 0.29 0.50 0.63 0.71

Foundation loads

Max. traction : 390 lb  
Max. compression : 683 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)
13.8	11.7	11.4	7.8	5.7	4.4	3.4

	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		Page 1 / 1 Revision		
Checked by				
Date	29/03/2024			