

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13234210

Catalog # : 30012ET3H449T-W22

Frame : 447/9T  
Output : 300 HP (220 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 285 A  
L. R. Amperes : 2193 A  
LRC : 7.7x(Code J)  
No load current : 136 A  
Rated speed : 1189 rpm  
Slip : 0.92 %  
Rated torque : 1320 ft.lb  
Locked rotor torque : 270 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 145 sq.ft.lb  
Design : A

Locked rotor time : 18s (cold) 10s (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> : 70.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 3045 lb

Output 25% 50% 75% 100%

Efficiency (%) 95.3 95.4 95.8 95.8  
Power Factor 0.38 0.63 0.75 0.81

Foundation loads

Max. traction : 9074 lb  
Max. compression : 12119 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)
5.2	4.3	3.7	3.0	2.3	1.8	1.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6322 C3	6319 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	11000 h	13000 h
Lubricant amount	:	60 g	45 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 Revision 1 / 1		
Checked by				
Date	28/03/2024			