

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11408341

Catalog # : 30009ET3G449T-W22

Frame : L447/9T
Output : 300 HP (220 kW)
Poles : 8
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 371 A
L. R. Amperes : 2337 A
LRC : 6.3x(Code G)
No load current : 170 A
Rated speed : 890 rpm
Slip : 1.11 %
Rated torque : 1770 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 285 sq.ft.lb

Locked rotor time : 28s (cold) 16s (hot)
Temperature rise : 105 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 : 64.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 3657 lb

Output	25%		50%		75%		100%	
Efficiency (%)	95.3	95.2	95.4	95.0	95.4	95.4	95.4	95.0
	94.9	94.0	95.0	94.5	95.0	94.5	95.0	95.0
Power Factor	0.38	0.39	0.62	0.63	0.73	0.74	0.78	0.79
	0.35	0.32	0.59	0.55	0.71	0.68	0.77	0.74

Foundation loads
Max. traction : 10941 lb
Max. compression : 14599 lb

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

Losses (%)	P1 (0,9;1,0)	5.7	6.2	6.2	6.2
	P2 (0,5;1,0)	4.5	5.0	5.0	5.0
	P3 (0,25;1,0)	4.1	4.6	4.6	4.6
	P4 (0,9;0,5)	3.3	3.6	3.6	3.6
	P5 (0,5;0,5)	2.3	2.5	2.5	2.5
	P6 (0,5;0,25)	1.8	2.0	2.0	2.0
	P7 (0,25;0,25)	1.2	1.3	1.3	1.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6322 C3	6319 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	14000 h	17000 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 1 / 1		
Checked by				
Date	28/03/2024			
		Revision		