

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11408291

Catalog # : 40018ET3G449T-W22

Frame : L447/9T
Output : 400 HP (300 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 445 A
L. R. Amperes : 2893 A
LRC : 6.5x(Code G)
No load current : 125 A
Rated speed : 1785 rpm
Slip : 0.83 %
Rated torque : 1180 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 260 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 136 sq.ft.lb
Design : B

Locked rotor time : 37s (cold) 21s (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
Rotation¹ : Both (CW and CCW)
Noise level² : 79.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 3218 lb

Output	25%		50%		75%		100%	
Efficiency (%)	94.9	95.4	95.4	95.8	95.8	96.2	96.2	
	94.9	94.9	95.4	95.4	95.8	95.8	96.2	96.2
Power Factor	0.55	0.56	0.80	0.81	0.85	0.86	0.88	0.89
	0.52	0.48	0.77	0.74	0.84	0.82	0.87	0.86

Foundation loads
Max. traction : 7960 lb
Max. compression : 11178 lb

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

Losses (%)	P1 (0,9;1,0)	4.5	4.5	4.5	4.5
	P2 (0,5;1,0)	3.3	3.3	3.3	3.3
	P3 (0,25;1,0)	2.7	2.7	2.7	2.7
	P4 (0,9;0,5)	2.5	2.5	2.5	2.5
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6322 C3	6319 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	6000 h	8000 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				
Checked by				
Date	28/03/2024			

Page 1 / 1
Revision