

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11408289

Catalog # : 40036ET3G449TS-W22

Frame : L447/9TS
 Output : 400 HP (300 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 460 V
 Rated current : 442 A
 L. R. Amperes : 4066 A
 LRC : 9.2x(Code K)
 No load current : 118 A
 Rated speed : 3583 rpm
 Slip : 0.47 %
 Rated torque : 586 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 290 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 91.9 sq.ft.lb
 Design : A

Locked rotor time : 39s (cold) 22s (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 : 88.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 3182 lb

Output	25%		50%		75%		100%	
Efficiency (%)	95.3	95.3	95.4	95.4	95.8	95.8	95.8	95.8
	95.3	95.3	95.4	95.4	95.8	95.8	95.8	95.8
Power Factor	0.56	0.56	0.80	0.80	0.85	0.85	0.89	0.90
	0.55	0.53	0.80	0.78	0.85	0.85	0.90	0.89

Foundation loads
 Max. traction : 3662 lb
 Max. compression : 6843 lb

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

Losses (%)	P1 (0,9;1,0)	5.1	5.1	5.1	5.1
	P2 (0,5;1,0)	3.7	3.7	3.7	3.7
	P3 (0,25;1,0)	3.1	3.1	3.1	3.1
	P4 (0,9;0,5)	2.6	2.6	2.6	2.6
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.0	1.0	1.0	1.0
	P7 (0,25;0,25)	0.5	0.5	0.5	0.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	4000 h
Lubricant amount	:	27 g	27 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		