

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line	: W22 NEMA Premium Efficiency Three-Phase		Product code :	11408339				
			Catalog # :	25009ET3G449T-W22				
Frame	: L447/9T	Locked rotor time	: 43s (cold) 24s (hot)					
Output	: 250 HP (185 kW)	Temperature rise	: 80 K					
Poles	: 8	Duty cycle	: Cont.(S1)					
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C					
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.					
Rated current	: 308 A	Protection degree	: IP55					
L. R. Amperes	: 1848 A	Cooling method	: IC411 - TEFC					
LRC	: 6.0x(Code G)	Mounting	: F-1					
No load current	: 130 A	Rotation ¹	: Both (CW and CCW)					
Rated speed	: 890 rpm	Noise level ²	: 64.0 dB(A)					
Slip	: 1.11 %	Starting method	: Direct On Line					
Rated torque	: 1480 ft.lb	Approx. weight ³	: 3420 lb					
Locked rotor torque	: 200 %							
Breakdown torque	: 229 %							
Insulation class	: F							
Service factor	: 1.15							
Moment of inertia (J)	: 255 sq.ft.lb							
Design	: B							
Output	25%	50%	75%	100%				
Efficiency (%)	95.3	94.9	95.4	95.0	95.4	95.0		
	94.9	94.4	95.0	94.5	95.0	95.0		
Power Factor	0.40	0.40	0.65	0.65	0.75	0.75	0.79	0.80
	0.36	0.33	0.60	0.57	0.72	0.69	0.78	0.76

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
		Drive end	Non drive end		
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					
Checked by					
Date	28/03/2024			Page	Revision
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