

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14439979

Catalog # : 35036ET3G449TS-W22

Frame	: 447/9TS	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 350 HP (260 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 385 A	Protection degree	: IP55
L. R. Amperes	: 3273 A	Cooling method	: IC411 - TEFC
LRC	: 8.5x(Code J)	Mounting	: F-1
No load current	: 105 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3575 rpm	Noise level ²	: 81.0 dB(A)
Slip	: 0.69 %	Starting method	: Direct On Line
Rated torque	: 514 ft.lb	Approx. weight ³	: 2989 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 68.1 sq.ft.lb		
Design	: A		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	95.3	95.3	95.4	95.4	96.2	95.8	96.2	95.8	Max. traction	: 3300 lb
	94.9	95.3	95.4	95.4	95.8	96.2	96.2	96.2		
Power Factor	0.56	0.56	0.80	0.80	0.86	0.85	0.88	0.90	Max. compression	: 6289 lb
	0.54	0.51	0.78	0.75	0.85	0.84	0.88	0.88		

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

Losses (%)	P1 (0,9;1,0)	4.7	4.7	4.7	4.7
	P2 (0,5;1,0)	3.7	3.7	3.7	3.7
	P3 (0,25;1,0)	2.9	2.9	2.9	2.9
	P4 (0,9;0,5)	2.9	2.9	2.9	2.9
	P5 (0,5;0,5)	2.0	2.0	2.0	2.0
	P6 (0,5;0,25)	1.6	1.6	1.6	1.6
	P7 (0,25;0,25)	0.8	0.8	0.8	0.8

		Drive end	Non drive end
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				
Checked by				
Date	28/03/2024			
			Page	Revision
			1 / 1	