

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12547806

Catalog # : 01009AT3E284T-W22

Frame	: 284/6T	Locked rotor time	: 57s (cold) 32s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 8	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 29.6-26.8/13.4 A	Protection degree	: IP55
L. R. Amperes	: 166-150/75.0 A	Cooling method	: IC418 - TEAO
LRC	: 5.6x(Code G)	Mounting	: F-1
No load current	: 11.2-13.0/6.50 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 880 rpm	Noise level ²	: 54.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 59.7 ft.lb	Approx. weight ³	: 0.0 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 7.20 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	89.3	90.3	89.5	89.5	90.2	88.5	90.2	87.5	Max. traction	: 721 lb
	88.3	89.1	88.5	88.5	88.5	89.5	88.5	88.5		
Power Factor	0.36	0.42	0.61	0.68	0.72	0.77	0.78	0.81	Max. compression	: 721 lb
	0.39	0.36	0.64	0.61	0.74	0.72	0.80	0.78		

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

Losses (%)	P1 (0,9;1,0)	10.3	10.3	10.3	10.3
	P2 (0,5;1,0)	8.5	8.5	8.5	8.5
	P3 (0,25;1,0)	8.4	8.4	8.4	8.4
	P4 (0,9;0,5)	5.4	5.4	5.4	5.4
	P5 (0,5;0,5)	3.7	3.7	3.7	3.7
	P6 (0,5;0,25)	2.6	2.6	2.6	2.6
	P7 (0,25;0,25)	1.8	1.8	1.8	1.8

		Drive end	Non drive end
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	11 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	