

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower NEMA
Premium Efficiency Three-Phase

Product code : 12126278

Catalog # : 02512AT3ECT324TF1-W2

Frame	: 324T	Cooling method	: IC410 - TEAO
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ^a	: 515 lb
Protection degree	: IP55	Moment of inertia (J)	: 11.5 sq.ft.lb
Design	: B		

Output [HP]	25	20	20	20	25	25	25
Poles	6	6	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	67.2-60.8/30.4	29.6	29.0	28.3	36.3	35.1	34.2
L. R. Amperes [A]	417-377/188	177	188	198	178	190	198
LRC [A]	6.2x(Code G)	6.0x(Code G)	6.5x(Code H)	7.0x(Code J)	4.9x(Code E)	5.4x(Code F)	5.8x(Code G)
No load current [A]	24.1-28.0/14.0	13.8	14.8	15.7	13.8	14.8	15.7
Rated speed [RPM]	1180	975	980	985	970	975	980
Slip [%]	1.67	2.50	2.00	1.50	3.00	2.50	2.00
Rated torque [ft.lb]	110	106	106	105	134	133	132
Locked rotor torque [%]	210	200	229	250	160	180	200
Breakdown torque [%]	260	250	290	310	200	229	250
Service factor	1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	46s (cold) 26s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%						
	50%	91.7	91.1	91.1	91.1	91.7	91.7
	75%	93.0	91.8	92.2	92.2	91.7	92.4
	100%	93.0	91.6	92.2	92.2	91.0	91.7
Power Factor	25%						
	50%	0.65	0.63	0.60	0.57	0.71	0.65
	75%	0.77	0.76	0.74	0.71	0.81	0.79
	100%	0.82	0.83	0.80	0.79	0.85	0.83

		Drive end	Non drive end	Foundation loads	
Bearing type	:	6312	6212	Max. traction	: 1028 lb
		2RS C3	2RS C3		
Sealing	:	V'Ring	V'Ring	Max. compression	: 1543 lb
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
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	22/01/2018			

Page 1 / 2
Revision

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Customer :

Space heater information

Voltage: 110-127/200-240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	22/01/2018				