

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12128171

Catalog # : 01012AT3ECT256TF1-W2

Frame	: 254/6T	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	: 279 lb
Protection degree	: IP55	Moment of inertia (J)	: 4.43 sq.ft.lb
Design	: B		

Output [HP]	10	10	10	10
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	28.5-26.6/13.3	15.4	14.8	14.4
L. R. Amperes [A]	185-173/86.5	78.5	84.4	87.8
LRC [A]	6.5x(Code H)	5.1x(Code F)	5.7x(Code G)	6.1x(Code H)
No load current [A]	10.3-12.0/6.00	4.90	6.30	6.60
Rated speed [RPM]	1175	965	970	975
Slip [%]	2.08	3.50	3.00	2.50
Rated torque [ft.lb]	44.1	53.7	53.4	53.1
Locked rotor torque [%]	229	170	200	220
Breakdown torque [%]	280	220	240	260
Service factor	1.25	1.00	1.15	1.15
Temperature rise	80 K	105 K	105 K	80 K
Locked rotor time	46s (cold) 26s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)
Noise level ²	59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%			
	50%	90.2	90.2	89.5
	75%	91.0	89.5	90.2
	100%	91.0	89.1	89.5
Power Factor	25%			
	50%	0.63	0.70	0.66
	75%	0.74	0.79	0.77
	100%	0.78	0.83	0.82

		Drive end	Non drive end	Foundation loads	
Bearing type	:	6309	6209	Max. traction	: 532 lb
		2RS C3	2RS C3		
Sealing	:	V'Ring	V'Ring	Max. compression	: 811 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			
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Customer :

Space heater information

Voltage: 110-127/200-240 V

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Date	22/01/2018				