

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11972287

Catalog # : 02018ET3ECT256T-W22

Frame	: 254/6T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-2
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	: 366 lb
Protection degree	: IP55	Moment of inertia (J)	: 3.10 sq.ft.lb
Design	: B		

Output [HP]	20	15	15	15	20	20	20
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	53.3-48.2/24.1	21.8	21.2	20.6	29.4	28.0	27.1
L. R. Amperes [A]	368-333/166	161	167	173	168	174	179
LRC [A]	6.9x(Code H)	7.4x(Code H)	7.9x(Code J)	8.4x(Code K)	5.7x(Code F)	6.2x(Code G)	6.6x(Code H)
No load current [A]	17.2-20.0/10.0	9.90	10.5	11.0	9.90	10.5	11.0
Rated speed [RPM]	1765	1465	1470	1470	1450	1460	1460
Slip [%]	1.94	2.33	2.00	2.00	3.33	2.67	2.67
Rated torque [ft.lb]	58.7	53.0	52.9	52.9	71.5	71.0	71.0
Locked rotor torque [%]	229	229	270	280	170	200	210
Breakdown torque [%]	270	280	310	340	210	229	250
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	27s (cold) 15s (hot)	21s (cold) 12s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²	64.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
Efficiency (%)	25%						
	50%	91.7	91.0	89.8	89.8	91.7	91.0
	75%	92.4	91.5	91.0	91.3	91.0	91.7
	100%	93.0	91.4	91.4	91.7	90.2	91.7
Power Factor	25%						
	50%	0.68	0.65	0.62	0.60	0.75	0.72
	75%	0.79	0.78	0.75	0.73	0.83	0.81
	100%	0.84	0.84	0.82	0.81	0.86	0.84

Bearing type	Drive end	Non drive end	Foundation loads
	6309	6209	
Sealing	2RS C3	2RS C3	Max. traction : 680 lb
	V'Ring	V'Ring	Max. compression : 1045 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	23/01/2018			
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Customer :

Space heater information

Voltage: 110-127/200-240 V

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Date	23/01/2018				