

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12022535

Catalog # : 06012ET3ECT404T-W22

Frame	: 404/5T	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 ²	: 1168 lb
Protection degree	: IP55	Moment of inertia (J)	: 36.9 sq.ft.lb
Design	: B		

Output [HP]	60	50	50	50	60	60	60
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]	154-139/69.5	69.3	66.5	64.8	85.1	80.3	78.3
L. R. Amperes [A]	1091-987/493	457	485	505	477	498	525
LRC [A]	7.1x(Code H)	6.6x(Code G)	7.3x(Code H)	7.8x(Code J)	5.6x(Code F)	6.2x(Code G)	6.7x(Code G)
No load current [A]	43.1-50.0/25.0	24.7	26.4	27.7	24.7	26.4	27.7
Rated speed [RPM]	1185	985	985	985	980	980	985
Slip [%]	1.25	1.50	1.50	1.50	2.00	2.00	1.50
Rated torque [ft.lb]	262	263	263	263	317	317	316
Locked rotor torque [%]	200	180	220	229	150	180	190
Breakdown torque [%]	229	220	240	260	180	200	220
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	36s (cold) 20s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)
Noise level ²	68.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%	94.0	93.3	93.4	93.4	94.0	94.0
	50%	94.1	93.3	93.3	93.3	93.6	93.6
	75%	94.5	93.4	93.7	93.7	93.0	93.6
	100%	94.5	93.3	93.4	93.4	92.4	93.0
Power Factor	25%	0.48	0.48	0.44	0.41	0.54	0.48
	50%	0.74	0.73	0.70	0.67	0.79	0.77
	75%	0.82	0.83	0.82	0.79	0.85	0.84
	100%	0.86	0.87	0.86	0.85	0.87	0.86

		<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	:	6316	6314	Max. traction	: 1529 lb
		2RS C3	2RS C3		
Sealing	:	WSeal	WSeal	Max. compression	: 2696 lb
Lubrication interval	:	-	-		
Lubricant amount	:	-	-		
Lubricant type	:	POLYREA ESTER OIL (WT/ ENS)			

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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Checked by					
Date	23/01/2018				