

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12096109

Catalog # : 04012ET3ECT364T-W22

Frame	: 364/5T	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	: 900 lb
Protection degree	: IP55	Moment of inertia (J)	: 29.0 sq.ft.lb
Design	: B		

Output [HP]	40	30	30	30	40	40	40
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]	103-93.0/46.5	42.0	40.2	39.6	56.5	53.9	52.2
L. R. Amperes [A]	658-595/298	269	289	305	277	296	313
LRC [A]	6.4x(Code G)	6.4x(Code G)	7.2x(Code H)	7.7x(Code J)	4.9x(Code E)	5.5x(Code F)	6.0x(Code G)
No load current [A]	29.3-34.0/17.0	16.8	17.9	18.7	16.8	17.9	18.7
Rated speed [RPM]	1185	985	985	990	980	980	985
Slip [%]	1.25	1.50	1.50	1.00	2.00	2.00	1.50
Rated torque [ft.lb]	175	158	158	157	211	211	210
Locked rotor torque [%]	200	210	240	270	160	180	200
Breakdown torque [%]	240	250	280	310	190	210	229
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	80 K	80 K	80 K
Locked rotor time	37s (cold) 21s (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	66.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%	93.1	92.5	92.2	91.6	93.5	92.9
	50%	93.6	92.4	92.3	91.9	93.0	93.0
	75%	93.6	92.8	93.1	93.0	92.4	93.0
	100%	94.1	92.5	93.0	93.2	91.7	93.0
Power Factor	25%	0.47	0.43	0.41	0.38	0.53	0.47
	50%	0.73	0.68	0.66	0.63	0.78	0.73
	75%	0.82	0.80	0.79	0.76	0.85	0.82
	100%	0.86	0.86	0.85	0.83	0.88	0.86

		Drive end	Non drive end	Foundation loads	
Bearing type	:	6314	6314	Max. traction	: 1229 lb
		2RS C3	2RS C3		
Sealing	:	WSeal	WSeal	Max. compression	: 2129 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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Revision

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Customer :

Space heater information

Voltage: 110-127/200-240 V

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Performed by			Page 2 / 2		Revision
Checked by					
Date	23/01/2018				