

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11976534

Catalog # : 00112ET3ECT145T-W22

Frame	: 143/5T	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	: 54.6 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1595 sq.ft.lb
Design	: B		

Output [HP]	1	0.75	0.75	0.75	1	1	1
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]	3.82-3.46/1.73	1.63	1.66	1.66	1.96	1.94	1.95
L. R. Amperes [A]	23.7-21.5/10.7	9.47	10.1	10.5	9.41	10.1	10.7
LRC [A]	6.2x(Code K)	5.8x(Code K)	6.1x(Code L)	6.3x(Code M)	4.8x(Code G)	5.2x(Code H)	5.5x(Code J)
No load current [A]	2.06-2.39/1.20	1.18	1.28	1.36	1.18	1.28	1.36
Rated speed [RPM]	1150	945	955	955	925	935	940
Slip [%]	4.17	5.50	4.50	4.50	7.50	6.50	6.00
Rated torque [ft.lb]	4.51	4.11	4.07	4.07	5.60	5.54	5.51
Locked rotor torque [%]	260	260	280	300	180	210	240
Breakdown torque [%]	300	290	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	80 K	80 K	80 K
Locked rotor time	50s (cold) 28s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²	49.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)
Efficiency (%)	25%						
	50%	77.0	74.8	73.2	70.7	77.0	74.0
	75%	82.0	78.4	77.5	75.8	80.0	78.5
	100%	82.5	79.3	78.9	77.9	78.5	78.5
Power Factor	25%						
	50%	0.45	0.44	0.41	0.38	0.53	0.46
	75%	0.57	0.57	0.53	0.50	0.66	0.59
	100%	0.66	0.66	0.62	0.59	0.74	0.68

Bearing type	Drive end	Non drive end	Foundation loads
	: 6205 2RS	: 6204 2RS	
	Sealing	V'Ring	
	Lubrication interval	-	
	Lubricant amount	-	
Lubricant type		Mobil Polyrex EM	Max. traction : 94 lb
			Max. compression : 149 lb

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: 200 - 240 V

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