

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11972805

Catalog # : 00512ET3ECT215T-W22

Frame	: 213/5T	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	: 174 lb
Protection degree	: IP55	Moment of inertia (J)	: 1.47 sq.ft.lb
Design	: B		

Output [HP]	5	5	5	5
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	15.1-13.7/6.83	8.10	7.82	7.55
L. R. Amperes [A]	103-92.9/46.4	44.5	47.7	49.1
LRC [A]	6.8x(Code J)	5.5x(Code G)	6.1x(Code H)	6.5x(Code H)
No load current [A]	5.95-6.90/3.45	3.41	3.68	3.90
Rated speed [RPM]	1170	945	950	955
Slip [%]	2.50	5.50	5.00	4.50
Rated torque [ft.lb]	22.1	27.4	27.3	27.1
Locked rotor torque [%]	170	140	160	190
Breakdown torque [%]	260	200	229	250
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	102s (cold) 57s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)
Noise level ²	55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%	88.2	89.6	89.0
	50%	88.5	88.5	88.5
	75%	89.5	88.5	88.5
	100%	89.5	86.8	87.5
Power Factor	25%	0.34	0.40	0.37
	50%	0.58	0.65	0.61
	75%	0.70	0.76	0.73
	100%	0.76	0.80	0.78

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6308 2RS	: 6207 2RS	Max. traction : 300 lb
Sealing	: V'Ring	: V'Ring	Max. compression : 475 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			
			Page	Revision
			1 / 2	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Space heater information

Voltage: 110-127/200-240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 2 / 2		Revision
Checked by					
Date	23/01/2018				