

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12126220

Catalog # : 00218AT3ECT145TF1-W2

Frame	: 143/5T	Cooling method	: IC410 - TEAO
Insulation class	: F	Mounting	: F-1
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	: 53.0 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.1561 sq.ft.lb
Design	: B		

Output [HP]	2	1.5	1.5	1.5	2	2	2
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]	5.85-5.52/2.76	2.54	2.51	2.56	3.25	3.11	3.07
L. R. Amperes [A]	46.8-44.2/22.1	19.3	20.6	21.5	19.5	20.5	21.5
LRC [A]	8.0x(Code K)	7.6x(Code K)	8.2x(Code L)	8.4x(Code M)	6.0x(Code H)	6.6x(Code J)	7.0x(Code J)
No load current [A]	2.81-3.26/1.63	1.48	1.63	1.75	1.48	1.63	1.75
Rated speed [RPM]	1755	1460	1465	1465	1435	1440	1450
Slip [%]	2.50	2.67	2.33	2.33	4.33	4.00	3.33
Rated torque [ft.lb]	5.90	5.32	5.30	5.30	7.22	7.20	7.15
Locked rotor torque [%]	270	270	300	330	190	210	229
Breakdown torque [%]	320	320	360	390	220	250	270
Service factor	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)
Noise level ²	51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%						
	50%	85.5	84.0	82.0	81.4	85.5	84.0
	75%	86.5	84.2	83.5	83.1	84.0	84.0
	100%	86.5	84.5	84.5	84.1	82.5	84.0
Power Factor	25%						
	50%	0.57	0.55	0.50	0.47	0.69	0.62
	75%	0.70	0.69	0.65	0.61	0.80	0.77
	100%	0.79	0.78	0.75	0.71	0.85	0.81

Bearing type Sealing Lubrication interval Lubricant amount Lubricant type	Drive end	Non drive end	Foundation loads Max. traction : 144 lb Max. compression : 197 lb
	: 6205 2RS	: 6204 2RS	
	: V'Ring	: V'Ring	
	: -	: -	
	: -	: -	
	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.

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Customer :

Space heater information

Voltage: 200 - 240 V

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