

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12127631

Catalog # : 00518AT3ECT184T-W22

Frame : 182/4T
Insulation class : F
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Design : B

Cooling method : IC410 - TEAO
Mounting : F-2
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight² : 102 lb
Moment of inertia (J) : 0.4003 sq.ft.lb

Output [HP]	5	4	4	4	5	5	5
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]	14.3-12.9/6.45	6.42	6.13	6.14	7.74	7.44	7.35
L. R. Amperes [A]	107-96.7/48.4	44.9	47.2	50.4	44.9	47.6	50.7
LRC [A]	7.5x(Code J)	7.0x(Code J)	7.7x(Code K)	8.2x(Code L)	5.8x(Code G)	6.4x(Code H)	6.9x(Code J)
No load current [A]	5.52-6.40/3.20	3.15	3.45	3.70	3.15	3.45	3.70
Rated speed [RPM]	1755	1455	1455	1460	1440	1445	1450
Slip [%]	2.50	3.00	3.00	2.67	4.00	3.67	3.33
Rated torque [ft.lb]	14.8	14.2	14.2	14.2	18.0	17.9	17.9
Locked rotor torque [%]	229	229	260	290	180	210	229
Breakdown torque [%]	320	300	350	380	240	280	300
Service factor	1.25	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%	88.2	87.7	86.4	86.2	89.2	88.1
	50%	88.5	87.5	86.7	86.5	88.5	87.5
	75%	89.5	88.2	88.2	88.2	87.5	88.5
	100%	89.5	87.7	88.2	88.2	86.5	87.5
Power Factor	25%	0.37	0.37	0.33	0.30	0.43	0.36
	50%	0.62	0.61	0.57	0.53	0.69	0.61
	75%	0.74	0.75	0.71	0.67	0.80	0.77
	100%	0.80	0.81	0.79	0.76	0.84	0.80

Bearing type : Drive end 6207 2RS Non drive end 6206 2RS
Sealing : V'Ring V'Ring
Lubrication interval : - -
Lubricant amount : - -
Lubricant type : Mobil Polyrex EM

Foundation loads
Max. traction : 296 lb
Max. compression : 398 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			

Page 1 / 2
Revision

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Customer

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Space heater information

Voltage: 110-127/200-240 V

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