

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12127831

Catalog # : 00712AT3ECT254TF1-W2

Frame : 254T
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-1
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight^a : 259 lb
Moment of inertia (J) : 3.92 sq.ft.lb

Output [HP]	7.5	7.5	7.5	7.5
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	21.0-19.0/9.48	11.4	10.8	10.5
L. R. Amperes [A]	143-129/64.5	59.3	62.6	65.1
LRC [A]	6.8x(Code H)	5.2x(Code F)	5.8x(Code G)	6.2x(Code G)
No load current [A]	7.76-9.00/4.50	4.50	4.75	4.95
Rated speed [RPM]	1175	970	970	975
Slip [%]	2.08	3.00	3.00	2.50
Rated torque [ft.lb]	33.1	40.1	40.1	39.9
Locked rotor torque [%]	250	170	200	220
Breakdown torque [%]	300	220	240	260
Service factor	1.25	1.00	1.15	1.15
Temperature rise	80 K	105 K	105 K	80 K
Locked rotor time	54s (cold) 30s (hot)	48s (cold) 27s (hot)	48s (cold) 27s (hot)	48s (cold) 27s (hot)
Noise level ²	59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%			
	50%	89.5	89.5	89.5
	75%	90.2	89.5	89.5
	100%	91.0	89.5	90.2
Power Factor	25%			
	50%	0.63	0.70	0.66
	75%	0.74	0.79	0.75
	100%	0.80	0.83	0.81

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6309	6209
	2RS C3	2RS C3
Sealing :	V'Ring	V'Ring
Lubrication interval :	-	-
Lubricant amount :	-	-
Lubricant type :	Mobil Polyrex EM	

Foundation loads
Max. traction : 374 lb
Max. compression : 633 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

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				