

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase Product code : 12174046
Catalog # : 03089EP3QCT324VF1-W2

Frame : 324T	Cooling method : IC411 - TEFC
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 : 538 lb
Protection degree : IP55	Moment of inertia (J) : 7.85 sq.ft.lb

Output [HP]	30	7.5
Poles	4	8
Frequency [Hz]	60	60
Rated voltage [V]	460	460
Rated current [A]	37.2	14.2
L. R. Amperes [A]	301	51.0
LRC [A]	8.1x(Code J)	3.6x(Code F)
No load current [A]	17.0	8.80
Rated speed [RPM]	1780	885
Slip [%]	1.11	1.67
Rated torque [ft.lb]	87.3	43.9
Locked rotor torque [%]	270	160
Breakdown torque [%]	280	170
Service factor	1.25	1.25
Temperature rise	80 K	80 K
Locked rotor time	19s (cold) 11s (hot)	90s (cold) 50s (hot)
Noise level ²	69.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%	89.4
	50%	90.2
	75%	91.0
	100%	91.7
Power Factor	25%	0.39
	50%	0.64
	75%	0.75
	100%	0.81

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6312	6212	Max. traction : 17 lb
	2RS C3	2RS C3	
Sealing :	V'Ring	V'Ring	Max. compression : 555 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	18/01/2018			

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Space heater information

Voltage: 110-127/200-240 V

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