

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase Product code : 12173997  
Catalog # : 05089EP3QCT364V-W22

Frame : 364/5T	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-2
Duty cycle : Cont.(S1)	Rotation <sup>1</sup> : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight <sup>2</sup> : 856 lb
Protection degree : IP55	Moment of inertia (J) : 19.9 sq.ft.lb

Output [HP]	50	12.5
Poles	4	8
Frequency [Hz]	60	60
Rated voltage [V]	460	460
Rated current [A]	59.8	21.4
L. R. Amperes [A]	526	94.2
LRC [A]	8.8x(Code K)	4.4x(Code G)
No load current [A]	30.7	16.3
Rated speed [RPM]	1780	885
Slip [%]	1.11	1.67
Rated torque [ft.lb]	146	73.2
Locked rotor torque [%]	310	190
Breakdown torque [%]	350	229
Service factor	1.25	1.25
Temperature rise	80 K	80 K
Locked rotor time	14s (cold) 8s (hot)	82s (cold) 46s (hot)
Noise level <sup>2</sup>	70.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%	88.1
	50%	89.5
	75%	91.0
	100%	92.4
Power Factor	25%	0.39
	50%	0.67
	75%	0.78
	100%	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6314	6314	Max. traction : 148 lb
	2RS C3	2RS C3	
Sealing :	WSeal	WSeal	Max. compression : 1004 lb
Lubrication interval :	-	-	
Lubricant amount :	-	-	
Lubricant type :	POLYREA ESTER OIL (WT/ ENS)		

### 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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