

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase Product code : 12172976  
Catalog # : 00789EP3QCT213VF1-W2

Frame : 213T	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-1
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> : 159 lb
Protection degree : IP55	Moment of inertia (J) : 1.38 sq.ft.lb

Output [HP]	7.5	1.75
Poles	4	8
Frequency [Hz]	60	60
Rated voltage [V]	460	460
Rated current [A]	9.51	3.40
L. R. Amperes [A]	79.9	15.6
LRC [A]	8.4x(Code K)	4.6x(Code J)
No load current [A]	4.50	2.50
Rated speed [RPM]	1770	880
Slip [%]	1.67	2.22
Rated torque [ft.lb]	22.0	10.3
Locked rotor torque [%]	200	140
Breakdown torque [%]	300	220
Service factor	1.25	1.25
Temperature rise	80 K	80 K
Locked rotor time	10s (cold) 6s (hot)	73s (cold) 41s (hot)
Noise level <sup>2</sup>	61.0 dB(A)	52.0 dB(A)
Efficiency (%)	25%	84.4
	50%	85.5
	75%	87.5
	100%	88.5
Power Factor	25%	0.39
	50%	0.64
	75%	0.77
	100%	0.82

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6308 2RS	6207 2RS	Max. traction : 48 lb
Sealing :	V'Ring	V'Ring	Max. compression : 207 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
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Checked by				
Date	18/01/2018			

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Customer :

### Space heater information

Voltage: 110-127/200-240 V

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