

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase Product code : 12172998
Catalog # : 00789EP3QCT254V2-W22

Frame : 254T	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-2
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 : 2.2 lb
Protection degree : IP55	Moment of inertia (J) : 2.62 sq.ft.lb

Output [HP]	7.5	1.75
Poles	4	8
Frequency [Hz]	60	60
Rated voltage [V]	460	460
Rated current [A]	9.75	4.59
L. R. Amperes [A]	62.4	17.0
LRC [A]	6.4x(Code H)	3.7x(Code J)
No load current [A]	4.60	4.00
Rated speed [RPM]	1770	885
Slip [%]	1.67	1.67
Rated torque [ft.lb]	22.0	10.2
Locked rotor torque [%]	200	220
Breakdown torque [%]	280	280
Service factor	1.25	1.25
Temperature rise	80 K	80 K
Locked rotor time	32s (cold) 18s (hot)	43s (cold) 24s (hot)
Noise level ²	64.0 dB(A)	54.0 dB(A)
Efficiency (%)	25%	84.4
	50%	85.5
	75%	87.5
	100%	88.5
Power Factor	25%	0.39
	50%	0.64
	75%	0.75
	100%	0.80

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6309	6209	Max. traction : 136 lb
	2RS C3	2RS C3	
Sealing :	V'Ring	V'Ring	Max. compression : 138 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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Customer :

Space heater information

Voltage: 110-127/200-240 V

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