

# 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  
Output : 7.5 HP (5.5 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 460 V  
Rated current : 9.30 A  
L. R. Amperes : 79.1 A  
LRC : 8.5x(Code K)  
No load current : 3.55 A  
Rated speed : 1780 rpm  
Slip : 1.11 %  
Rated torque : 22.1 ft.lb  
Locked rotor torque : 260 %  
Breakdown torque : 360 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 2.62 sq.ft.lb

Locked rotor time : 32s (cold) 18s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP55  
Cooling method : IC411 - TEFC  
Mounting : F-2  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 64.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 2.2 lb

Output	25%	50%	75%	100%				
Efficiency (%)	84.9	69.0	85.5	71.0	88.2	77.0	88.5	79.0
Power Factor	0.44	0.21	0.68	0.37	0.78	0.50	0.84	0.59

Foundation loads  
Max. traction : 172 lb  
Max. compression : 174 lb

	Drive end	Non drive end
Bearing type	6309 2RS C3	6209 2RS C3
Sealing	V'Ring	V'Ring
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.

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Customer :

### Space heater information

Voltage: 110-127/200-240 V

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