

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase  
Product code : 12173030  
Catalog # : 01089EP3QCT256V2-W22

Frame	: 254/6T	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 12.3 A	Protection degree	: IP55
L. R. Amperes	: 88.2 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: F-2
No load current	: 4.50 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1775 rpm	Noise level <sup>2</sup>	: 64.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 29.6 ft.lb	Approx. weight <sup>3</sup>	: 341 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.96 sq.ft.lb		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	85.4	75.5	86.5	77.0	88.5	80.0	89.5	81.5	Max. traction	: 28 lb
Power Factor	0.48	0.24	0.74	0.43	0.83	0.56	0.86	0.65	Max. compression	: 369 lb

		<u>Drive end</u>	<u>Non drive end</u>
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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