

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase

Product code : 12176621

Catalog # : 02589EP3QCT286VF1-W2

Frame : 284/6T  
Output : 25 HP (18.5 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 460 V  
Rated current : 30.1 A  
L. R. Amperes : 256 A  
LRC : 8.5x(Code K)  
No load current : 12.8 A  
Rated speed : 1780 rpm  
Slip : 1.11 %  
Rated torque : 73.8 ft.lb  
Locked rotor torque : 300 %  
Breakdown torque : 310 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 5.85 sq.ft.lb

Locked rotor time : 16s (cold) 9s (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-1  
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> : 468 lb

Output	25%	50%	75%	100%				
Efficiency (%)	88.2	81.3	88.5	82.5	91.7	85.5	91.7	86.5
Power Factor	0.43	0.23	0.68	0.40	0.80	0.52	0.84	0.60

Foundation loads  
Max. traction : 89 lb  
Max. compression : 557 lb

	Drive end	Non drive end
Bearing type	6311 2RS C3	6211 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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