

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase

Product code : 12173348

Catalog # : 02089EP3QCT286V2-W22

Frame : 284/6T  
Output : 20 HP (15 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 460 V  
Rated current : 24.9 A  
L. R. Amperes : 149 A  
LRC : 6.0x(Code G)  
No load current : 9.20 A  
Rated speed : 1765 rpm  
Slip : 1.94 %  
Rated torque : 59.5 ft.lb  
Locked rotor torque : 190 %  
Breakdown torque : 240 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 5.85 sq.ft.lb

Locked rotor time : 25s (cold) 14s (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> : 471 lb

Output	25%	50%	75%	100%				
Efficiency (%)	87.5	67.7	88.5	70.0	90.2	76.0	91.0	78.5
Power Factor	0.46	0.20	0.71	0.35	0.80	0.46	0.83	0.54

Foundation loads  
Max. traction : 76 lb  
Max. compression : 548 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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