

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase

Product code : 12147877

Catalog # : 03089EP3QCT324V-W22

Frame : 324T
Output : 30 HP (22 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 37.2 A
L. R. Amperes : 301 A
LRC : 8.1x(Code J)
No load current : 17.0 A
Rated speed : 1780 rpm
Slip : 1.11 %
Rated torque : 88.5 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 280 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 7.85 sq.ft.lb

Locked rotor time : 19s (cold) 11s (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
Rotation¹ : Both (CW and CCW)
Noise level² : 69.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 532 lb

Output	25%	50%	75%	100%				
Efficiency (%)	89.4	81.0	90.2	82.5	91.0	84.0	91.7	85.5
Power Factor	0.39	0.22	0.64	0.38	0.75	0.50	0.81	0.57

Foundation loads
Max. traction : 24 lb
Max. compression : 556 lb

	Drive end	Non drive end
Bearing type	6312 2RS C3	6212 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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