

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase

Product code : 12174040

Catalog # : 03089EP3PCT324VF1-W2

Frame : 324T  
Output : 30 HP (22 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 200 V  
Rated current : 85.5 A  
L. R. Amperes : 693 A  
LRC : 8.1x(Code J)  
No load current : 39.1 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-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 69.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 542 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 : 19 lb  
Max. compression : 561 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 2 Revision		
Checked by				
Date	28/03/2024			

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Space heater information

Voltage: 110-127/200-240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 2 / 2		Revision
Checked by					
Date	28/03/2024				