

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower NEMA  
Premium Efficiency Three-Phase

Product code : 12127077

Catalog # : 04018AT3HCT324TF1-W2

Frame : 324T  
Output : 40 HP (30 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 37.7 A  
L. R. Amperes : 230 A  
LRC : 6.1x(Code G)  
No load current : 12.8 A  
Rated speed : 1775 rpm  
Slip : 1.39 %  
Rated torque : 117 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 240 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 9.16 sq.ft.lb  
Design : B

Locked rotor time : 36s (cold) 20s (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 : IC410 - TEAO  
Mounting : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 66.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 544 lb

Output	25%	50%	75%	100%
Efficiency (%)	93.5	93.6	94.1	94.1
Power Factor	0.47	0.72	0.80	0.85

Foundation loads  
Max. traction : 818 lb  
Max. compression : 1362 lb

		<u>Drive end</u>	<u>Non drive end</u>
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				
Checked by				
Date	23/01/2018			

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Customer :

### Space heater information

Voltage: 110-127/200-240 V

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