

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase
Product code : 14324026
Catalog # : 02026EP3QCT324V-W22

Frame	: 324/6T	Locked rotor time	: 162s (cold) 90s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 12	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 8.38 A	Protection degree	: IP55
L. R. Amperes	: 40.2 A	Cooling method	: IC411 - TEFC
LRC	: 4.8x(Code H)	Mounting	: F-2
No load current	: 5.20 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 589 rpm	Noise level ²	: 63.0 dB(A)
Slip	: 1.83 %	Starting method	: Direct On Line
Rated torque	: 44.6 ft.lb	Approx. weight ³	: 559 lb
Locked rotor torque	: 110 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 9.79 sq.ft.lb		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	80.9	86.5	82.0	87.0	83.0	88.3	84.0	88.7	Max. traction	: 980 lb
Power Factor	0.25	0.45	0.45	0.72	0.57	0.82	0.66	0.87	Max. compression	: 1539 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.

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Customer :

Space heater information

Voltage: 110-127/200-240 V

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