

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase

Product code : 12175021

Catalog # : 05089EP3PCT365V2-W22

Frame	: 364/5T	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 50 HP (37 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 200 V	Altitude	: 1000 m.a.s.l.
Rated current	: 138 A	Protection degree	: IP55
L. R. Amperes	: 1104 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code J)	Mounting	: F-2
No load current	: 51.7 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1785 rpm	Noise level ²	: 71.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 147 ft.lb	Approx. weight ³	: 2.2 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 23.3 sq.ft.lb		

Output	25%		50%		75%		100%	
Efficiency (%)	91.0	80.4	91.5	81.0	92.0	81.5	92.5	82.0
Power Factor	0.46	0.25	0.71	0.44	0.80	0.56	0.84	0.65

Foundation loads	
Max. traction	: 479 lb
Max. compression	: 481 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 2RS C3	6314 2RS C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	POLYREA ESTER OIL (WT/ ENS)	

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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