

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase

Product code : 12175289

Catalog # : 05089EP3QCT365V2-W22

Frame : 364/5T
Output : 50 HP (37 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 60.0 A
L. R. Amperes : 480 A
LRC : 8.0x(Code J)
No load current : 22.5 A
Rated speed : 1785 rpm
Slip : 0.83 %
Rated torque : 147 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 290 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 23.3 sq.ft.lb

Locked rotor time : 14s (cold) 8s (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 : 71.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 867 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 : 47 lb
Max. compression : 914 lb

	Drive end	Non drive end
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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