

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase

Product code : 12180342

Catalog # : 10089EP3PCT444VF1-W2

Frame : 444/5T
Output : 100 HP (75 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 200 V
Rated current : 274 A
L. R. Amperes : 2190 A
LRC : 8.0x(Code J)
No load current : 89.7 A
Rated speed : 1785 rpm
Slip : 0.83 %
Rated torque : 294 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 70.5 sq.ft.lb

Locked rotor time : 32s (cold) 18s (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
Rotation¹ : Both (CW and CCW)
Noise level² : 74.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 0.0 lb

Output	25%	50%	75%	100%				
Efficiency (%)	89.8	86.5	91.0	87.5	93.0	90.2	94.1	91.0
Power Factor	0.47	0.25	0.70	0.42	0.80	0.50	0.84	0.58

Foundation loads
Max. traction : 747 lb
Max. compression : 747 lb

	Drive end	Non drive end
Bearing type	6319 C3	6316 C3
Sealing	WSeal	WSeal
Lubrication interval	8000 h	10000 h
Lubricant amount	45 g	34 g
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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