

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12023929

Catalog # : 04018ET3HCT324T-W22

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 : 13.6 A
 Rated speed : 1775 rpm
 Slip : 1.39 %
 Rated torque : 118 ft.lb
 Locked rotor torque : 229 %
 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 : IC411 - TEFC
 Mounting : F-2
 Rotation¹ : Both (CW and CCW)
 Noise level² : 66.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 547 lb

Output	25%	50%	75%	100%
Efficiency (%)	93.5	93.6	94.1	94.1
Power Factor	0.46	0.72	0.80	0.85

Foundation loads

Max. traction : 816 lb
 Max. compression : 1363 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
6.1	5.1	5.0	2.8	1.9	1.2	0.8

Drive end

Non drive end

Bearing type : 6312 2RS C3

6212 2RS C3

Sealing : V'Ring

V'Ring

Lubrication interval

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-

Lubricant amount

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Lubricant type

Mobil Polyrex EM

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

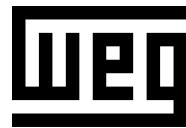
- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

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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