DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line

: W22 NEMA Premium Efficiency Three-Product code: 13500513

Catalog #: 50012ET3GKD580Z-W22

Frame : 586/7TZ Locked rotor time : 45s (cold) 25s (hot) Output : 500 HP (370 kW) Temperature rise : 80 K

Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 460 V : 1000 m.a.s.l. Altitude Rated current : 603 A Protection degree : IP55

L. R. Amperes : 3618 A Cooling method : IC411 - TEFC LRC : 6.0x(Code G) Mounting : F-1

No load current : 240 A Rotation¹ : Both (CW and CCW) Rated speed : 1192 rpm Noise level² : 77.0 dB(A) Starting method Slip : 0.67 % : Direct On Line

Rated torque : 2200 ft.lb Approx. weight³ : 4403 lb Locked rotor torque : 200 % Breakdown torque : 210 % Insulation class : F

25% 75% 50% 100% Foundation loads Output Efficiency (%) 0.000 95.8 96.2 96.2 Max. traction : 7449 lb

Power Factor 0.00 0.66 0.76 0.80 Max. compression : 11853 lb

Drive end Non drive end NU-324 C3 Bearing type 6319 C3 Taconite Labyrinth Taconite Labyrinth Sealing Lubrication interval 6000 h 13000 h

Lubricant amount 72 g 45 g

Lubricant type Mobil Polyrex EM

: 1.15

: 368 sq.ft.lb

Notes:

Service factor

Moment of inertia (J)

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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Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Space heater information

Voltage: 200 - 240 V

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