DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 13500702 Catalog #: 45012ET3GKD580Z-W22 Frame : 586/7TZ Locked rotor time : 45s (cold) 25s (hot) Output : 450 HP (330 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 : 532 A Protection degree : IP55 L. R. Amperes : 3564 A Cooling method : IC411 - TEFC : 6.7x(Code H) LRC Mounting : F-1 No load current : 260 A Rotation¹ : Both (CW and CCW) Rated speed : 1193 rpm Noise level² : 77.0 dB(A) Starting method Slip : 0.58 % : Direct On Line Rated torque : 1980 ft.lb Approx. weight³ : 4384 lb Locked rotor torque : 240 % Breakdown torque : 250 % Insulation class : F Service factor : 1.00 Moment of inertia (J) : 368 sq.ft.lb 25% 75% 50% 100% Foundation loads Output Efficiency (%) 0.000 95.0 96.2 96.2 Max. traction : 8140 lb Power Factor 0.00 0.64 0.74 0.79 Max. compression : 12523 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

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.

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/03/2024			1/2	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	
Customer	

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/03/2024	_		2/2	