

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Product code: 14406916 Premium Efficiency Three-Phase Catalog #: 02518XT3E284TC Frame : 284TC Locked rotor time : 36s (cold) 20s (hot) Output : 25 HP (18.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 59.8/29.9 A Protection degree : IP55 L. R. Amperes : 490/245 A Cooling method : IC411 - TEFC LRC : 8.2x(Code J) Mounting : F-1 No load current : 25.0/12.5 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 68.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 74.2 ft.lb Approx. weight³ : 483 lb Locked rotor torque : 320 % Breakdown torque : 320 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 4.54 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 93.6 : 810 lb Efficiency (%) 92.2 92.4 93.6 Max. traction Power Factor 0.83 : 1293 lb 0.42 0.67 0.78 Max. compression Non drive end Drive end Bearing type 6311 C3 6211 C3 Sealing Oil Seal Lip Seal Lubrication interval 20000 h 20000 h Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 64.5A SF 1.15 SFA 74.2A

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		

Thermal protection

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

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