DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W50 Three-Phase Product code: 13299660

> Catalog #: 50012ET3X5809-W50MV

Frame : 5809/10

Output : 500 HP (370 kW)

Poles Frequency : 60 Hz Rated voltage : 2300 V Rated current : 124 A : 744 A L. R. Amperes

LRC : 6.0x(Code G) No load current : 50.2 A Rated speed : 1191 rpm Slip : 0.75 % Rated torque : 2200 ft.lb Locked rotor torque : 150 % Breakdown torque : 210 %

: 1.00 Service factor Moment of inertia (J) : 384 sq.ft.lb

Insulation class

Efficiency (%)

Notes:

25% Output 50% 75% 100%

: F

94.1 94.1 94.5 94.5 95.0 95.0

0.000 0.000

Power Factor 0.00 0.00 0.63 0.60 0.73 0.71 0.79 0.77 Locked rotor time

: 27s (cold) 15s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1)

Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Altitude

Protection degree : IP55 Cooling method : IC411 - TEFC

: F-1 Mounting

Rotation¹ : Both (CW and CCW)

Noise level² : 77.0 dB(A) Starting method : Direct On Line

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).

(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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