DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W50 Three-Phase Product code:

> Catalog #: 50036ET3X5809-W50MV

Frame : 5809/10

Output : 500 HP (370 kW)

Poles : 2 Frequency : 60 Hz Rated voltage : 2300 V Rated current : 109 A L. R. Amperes : 709 A

: 6.5x(Code G) **LRC** No load current : 24.0 A Rated speed : 3571 rpm Slip : 0.81 % Rated torque : 735 ft.lb Locked rotor torque : 120 % Breakdown torque : 240 % Insulation class : F

: 142 sq.ft.lb Design : A

25% Output 50% 75% 100% Efficiency (%) 0.000 94.5 94.5 95.0 95.0 95.4 95.4 0.000

: 1.00

Power Factor 0.00 0.00 0.85 0.84 0.89 0.89 0.89 0.89 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-1

Rotation¹ : CW Noise level² : 82.0 dB(A) Starting method : Direct On Line

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).
- (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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