

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W50 Three-Phase

Product code : 13305565
Catalog # : 60012ET3X5809-W50MV

Frame : 5809/10
Output : 600 HP (440 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 2300 V
Rated current : 147 A
L. R. Amperes : 926 A
LRC : 6.3x(Code G)
No load current : 70.3 A
Rated speed : 1192 rpm
Slip : 0.67 %
Rated torque : 2640 ft.lb
Locked rotor torque : 90 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 418 sq.ft.lb

Locked rotor time : 28s (cold) 16s (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 : Both (CW and CCW)
Noise level² : 77.0 dB(A)
Starting method : Direct On Line

Output	25%	50%	75%	100%
Efficiency (%)	0.000	93.3	93.3	94.5 94.5 95.0 95.0
	0.000			
Power Factor	0.00	0.00	0.62 0.58	0.73 0.71 0.79 0.77

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).
(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					
Date	27/03/2024				
			Page		Revision
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