

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W50 Three-Phase

Product code : 13305337
Catalog # : 50018ET3X5009-W50MV

Frame	: 5009/10	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 500 HP (370 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 2300 V	Altitude	: 1000 m.a.s.l.
Rated current	: 116 A	Protection degree	: IP55
L. R. Amperes	: 731 A	Cooling method	: IC411 - TEFC
LRC	: 6.3x(Code G)	Mounting	: F-1
No load current	: 42.1 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1787 rpm	Noise level ²	: 79.0 dB(A)
Slip	: 0.72 %	Starting method	: Direct On Line
Rated torque	: 1470 ft.lb		
Locked rotor torque	: 80 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 166 sq.ft.lb		
Design	: A		

Output	25%	50%	75%	100%
Efficiency (%)	0.000	94.5	94.5	95.0 95.0 95.0 95.0
	0.000			
Power Factor	0.00	0.00	0.73 0.71	0.81 0.80 0.84 0.83

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		Page Revision 1 /		
Checked by				
Date	27/03/2024			