

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W50 Three-Phase

Product code : 13299564  
Catalog # : 40036ET3X5009-W50MV

Frame : 5009/10  
Output : 400 HP (300 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 2300 V  
Rated current : 89.1 A  
L. R. Amperes : 579 A  
LRC : 6.5x(Code G)  
No load current : 21.0 A  
Rated speed : 3571 rpm  
Slip : 0.81 %  
Rated torque : 588 ft.lb  
Locked rotor torque : 100 %  
Breakdown torque : 210 %  
Insulation class : F  
Service factor : 1.00  
Moment of inertia (J) : 93.7 sq.ft.lb  
Design : A

Locked rotor time : 25s (cold) 14s (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  
Rotation<sup>1</sup> : CW  
Noise level<sup>2</sup> : 79.0 dB(A)  
Starting method : Direct On Line

Output	25%	50%	75%	100%
Efficiency (%)	0.000	94.1	94.1	94.5 94.5 95.0 95.0
	0.000			
Power Factor	0.00	0.00	0.83 0.82	0.87 0.87 0.89 0.89

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
			1 /		