

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W60 Hazardous Area Three-Phase

Product code :

16840147

Catalog # :

70018WT3X5010-W60MV

Frame : 5010/11
 Output : 500 HP (370 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 2300/4000 V
 Rated current : 119/68.6 A
 L. R. Amperes : 904/521 A
 LRC : 7.6x(Code J)
 No load current : 47.0/27.0 A
 Rated speed : 1792 rpm
 Slip : 0.44 %
 Rated torque : 1470 ft.lb
 Locked rotor torque : 100 %
 Breakdown torque : 280 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 147 sq.ft.lb

Locked rotor time : 27s (cold) 15s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : 0°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP24
 Mounting : F-1
 Rotation¹ : Both (CW and CCW)
 Noise level² : 85.0 dB(A)
 Starting method : VFD

Output	25%		50%		75%		100%	
Efficiency (%)	0.000	93.5	94.0	94.5	95.0	95.0	95.4	
	0.000		94.5		95.0		95.4	
	0.000							
Power Factor	0.00	0.00	0.68	0.73	0.78	0.80	0.82	0.83
	0.00		0.76		0.82		0.84	

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		
Checked by				
Date	27/03/2024			
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