

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W60 Hazardous Area Standard Efficiency  
Three-Phase

Product code : 16853456

Catalog # : 90036WT3Q5010-W60LV1

Frame : 5010/11  
Output : 700 HP (515 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 460 V  
Rated current : 764 A  
L. R. Amperes : 5577 A  
LRC : 7.3x(Code H)  
No load current : 165 A  
Rated speed : 3573 rpm  
Slip : 0.75 %  
Rated torque : 1030 ft.lb  
Locked rotor torque : 90 %  
Breakdown torque : 260 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 82.1 sq.ft.lb

Locked rotor time : 21s (cold) 12s (hot)  
Temperature rise : 105 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP24  
Mounting : F-1  
Rotation<sup>1</sup> : CW  
Noise level<sup>2</sup> : 85.0 dB(A)  
Starting method : VFD

Output	25%	50%	75%	100%
Efficiency (%)	0.000	94.5	94.5	95.0
	0.000	94.5	95.0	95.0
	0.000			
Power Factor	0.00	0.86	0.86	0.88
	0.00	0.86	0.88	0.89

Notes:

CSA  
Class I, Div 2, Gr A, B, C and D - T3

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			
		1 /		