

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14284838

Catalog # : 10018OT3H404TC-W40

Frame : 404/5TC  
 Output : 100 HP (75 kW)  
 Poles : 4  
 Frequency : 60 Hz  
 Rated voltage : 575 V  
 Rated current : 91.8 A  
 L. R. Amperes : 624 A  
 LRC : 6.8x(Code G)  
 No load current : 29.6 A  
 Rated speed : 1780 rpm  
 Slip : 1.11 %  
 Rated torque : 295 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 250 %  
 Insulation class : F  
 Service factor : 1.25  
 Moment of inertia (J) : 21.9 sq.ft.lb  
 Design : B

Locked rotor time : 21s (cold) 12s (hot)  
 Temperature rise : 80 K  
 Duty cycle : Cont.(S1)  
 Ambient temperature : -20°C to +40°C  
 Altitude : 1000 m.a.s.l.  
 Protection degree : IP23  
 Cooling method : IC01 - ODP  
 Mounting : F-1  
 Rotation<sup>1</sup> : Both (CW and CCW)  
 Noise level<sup>2</sup> : 69.0 dB(A)  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 1007 lb

Output	25%	50%	75%	100%
Efficiency (%)	94.9	95.0	95.4	95.4
Power Factor	0.50	0.75	0.83	0.86

Foundation loads  
 Max. traction : 1708 lb  
 Max. compression : 2715 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6316 C3	6212 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	34 g	13 g
Lubricant type	:	Mobil Polyrex EM	

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).
- (3) Approximate weight subject to changes after manufacturing process.
- (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 1 / 1		
Checked by				
Date	29/03/2024			
		Revision		