

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14786493

Catalog # : 01512OT3H284TC-W40

Frame : 284TC  
Output : 15 HP (11 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 14.7 A  
L. R. Amperes : 92.7 A  
LRC : 6.3x(Code G)  
No load current : 6.24 A  
Rated speed : 1180 rpm  
Slip : 1.67 %  
Rated torque : 66.8 ft.lb  
Locked rotor torque : 260 %  
Breakdown torque : 260 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 4.80 sq.ft.lb  
Design : B

Locked rotor time : 28s (cold) 16s (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> : 59.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 322 lb

Output	25%	50%	75%	100%
Efficiency (%)	90.8	91.0	91.7	91.7
Power Factor	0.42	0.67	0.77	0.82

Foundation loads  
Max. traction  
Max. compression

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	11 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		