

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14497420

Catalog # : 05036OT3H324TSC-W40

Frame : 324TSC
 Output : 50 HP (37 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 47.6 A
 L. R. Amperes : 300 A
 LRC : 6.3x(Code G)
 No load current : 15.6 A
 Rated speed : 3555 rpm
 Slip : 1.25 %
 Rated torque : 73.9 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 220 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 3.02 sq.ft.lb
 Design : B

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 : IP23
 Cooling method : IC01 - ODP
 Mounting : F-1
 Rotation¹ : Both (CW and CCW)
 Noise level² : 75.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 438 lb

Output	25%	50%	75%	100%
Efficiency (%)	91.5	91.7	93.0	93.0
Power Factor	0.48	0.72	0.81	0.84

Foundation loads
 Max. traction
 Max. compression

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	19658 h	20000 h
Lubricant amount	:	21 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		