

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14496951

Catalog # : 04018OT3V324TS-W40

Frame : 324TS
 Output : 40 HP (30 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 200/400 V
 Rated current : 109/54.7 A
 L. R. Amperes : 679/339 A
 LRC : 6.2x(Code G)
 No load current : 42.5/21.3 A
 Rated speed : 1775 rpm
 Slip : 1.39 %
 Rated torque : 118 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 5.69 sq.ft.lb
 Design : B

Locked rotor time : 23s (cold) 13s (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 : 66.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 447 lb

Output	25%	50%	75%	100%
Efficiency (%)	93.5	93.6	94.1	94.1
Power Factor	0.44	0.70	0.80	0.84

Foundation loads
 Max. traction
 Max. compression

	Drive end	Non drive end
Bearing type	6312 Z C3	6211 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 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 Revision		
Checked by				
Date	29/03/2024			