

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14504109

Catalog # : 05018OT3E326TC-W40G

Frame : 324/6TC
Output : 50 HP (37 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 117/58.5 A
L. R. Amperes : 737/369 A
LRC : 6.3x(Code G)
No load current : 46.4/23.2 A
Rated speed : 1775 rpm
Slip : 1.39 %
Rated torque : 148 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 7.08 sq.ft.lb
Design : B

Locked rotor time : 19s (cold) 11s (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 : 526 lb

Output	25%		50%		75%		100%	
Efficiency (%)	94.0	92.9	94.1	93.1	94.5	93.5	94.5	93.6
	92.9	92.9	93.1	93.1	93.5	93.5	93.6	93.6
Power Factor	0.44	0.44	0.70	0.70	0.80	0.80	0.84	0.84
	0.40	0.37	0.66	0.62	0.77	0.74	0.82	0.80

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				
Checked by				
Date	29/03/2024			

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Revision