

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase

Product code :

14491997

Catalog # :

05018OP3EFP326TC-W40

Frame : 324/6TC
Output : 50 HP (37 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 120/60.2 A
L. R. Amperes : 722/361 A
LRC : 6.0x(Code G)
No load current : 46.0/23.0 A
Rated speed : 1770 rpm
Slip : 1.67 %
Rated torque : 148 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 5.98 sq.ft.lb
Design : B

Locked rotor time : 27s (cold) 15s (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)
Starting method : Direct On Line
Approx. weight³ : 520 lb

Output	25%	50%	75%	100%				
Efficiency (%)	92.2	91.6	92.4	91.7	93.0	92.4	93.0	92.3
Power Factor	0.43	0.43	0.67	0.67	0.78	0.78	0.83	0.83

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	26/03/2024			

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Revision