

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase

Product code :

15730617

Catalog # :

05015OP3OFP326TS-W40

Frame : 324/6TS
Output : 50 HP (37 kW)
Poles : 4
Frequency : 50 Hz
Rated voltage : 380 V
Rated current : 73.7 A
L. R. Amperes : 420 A
LRC : 5.7x(Code F)
No load current : 29.0 A
Rated speed : 1471 rpm
Slip : 1.93 %
Rated torque : 178 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 200 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 7.08 sq.ft.lb
Design : B

Locked rotor time : 50s (cold) 28s (hot)
Temperature rise : 70 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +50°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 : 531 lb

Output	25%		50%		75%		100%	
Efficiency (%)	91.4	90.2	92.0	91.5	93.0	93.0	93.0	93.0
	88.5		91.5		93.0		93.0	
Power Factor	0.46	0.41	0.68	0.63	0.78	0.74	0.82	0.80
	0.36		0.58		0.71		0.77	

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	4500 h	4500 h
Lubricant amount	21 g	13 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	26/03/2024			
			Revision	