

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14284590

Catalog # : 10018OT3E404TS-W40

Frame : 404/5TS
 Output : 100 HP (75 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 229/115 A
 L. R. Amperes : 1560/780 A
 LRC : 6.8x(Code G)
 No load current : 74.0/37.0 A
 Rated speed : 1780 rpm
 Slip : 1.11 %
 Rated torque : 295 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 21.9 sq.ft.lb
 Design : B

Locked rotor time : 21s (cold) 12s (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 : 69.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 972 lb

Output	25%	50%	75%	100%				
Efficiency (%)	94.9	90.2	95.0	91.9	95.4	92.9	95.4	94.7
	90.3	90.3	92.0	92.0	92.9	92.9	94.7	94.7
Power Factor	0.50	0.48	0.75	0.73	0.83	0.82	0.86	0.86
	0.46	0.43	0.72	0.68	0.80	0.78	0.85	0.84

Foundation loads
 Max. traction : 1900 lb
 Max. compression : 2872 lb

	Drive end	Non drive end
Bearing type	6314 C3	6212 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	27 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	29/03/2024			
		Revision		