

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14284557

Catalog # : 10012OT3E444T-W40

Frame : 444/5T  
 Output : 100 HP (75 kW)  
 Poles : 6  
 Frequency : 60 Hz  
 Rated voltage : 230/460 V  
 Rated current : 254/127 A  
 L. R. Amperes : 1549/775 A  
 LRC : 6.1x(Code G)  
 No load current : 113/56.5 A  
 Rated speed : 1190 rpm  
 Slip : 0.83 %  
 Rated torque : 441 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 250 %  
 Insulation class : F  
 Service factor : 1.25  
 Moment of inertia (J) : 60.6 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  
 Rotation<sup>1</sup> : Both (CW and CCW)  
 Noise level<sup>2</sup> : 69.0 dB(A)  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 1339 lb

Output	25%		50%		75%		100%	
Efficiency (%)	94.4	93.6	94.5	93.7	95.0	94.1	95.0	94.1
	92.8	91.9	93.0	92.4	94.1	93.8	94.1	94.1
Power Factor	0.37	0.34	0.61	0.56	0.71	0.69	0.78	0.77
	0.31	0.29	0.53	0.50	0.65	0.61	0.75	0.73

Foundation loads  
 Max. traction : 2406 lb  
 Max. compression : 3745 lb

	Drive end	Non drive end
Bearing type :	6319 C3	6314 C3
Sealing :	Without Bearing Seal	Without Bearing Seal
Lubrication interval :	20000 h	20000 h
Lubricant amount :	45 g	27 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		