

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14494897

Catalog # : 02036OT3E254TC-W40

Frame : 254TC  
 Output : 20 HP (15 kW)  
 Poles : 2  
 Frequency : 60 Hz  
 Rated voltage : 230/460 V  
 Rated current : 48.7/24.3 A  
 L. R. Amperes : 307/153 A  
 LRC : 6.3x(Code G)  
 No load current : 15.8/7.90 A  
 Rated speed : 3530 rpm  
 Slip : 1.94 %  
 Rated torque : 29.8 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 260 %  
 Insulation class : F  
 Service factor : 1.25  
 Moment of inertia (J) : 0.8718 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  
 Rotation<sup>1</sup> : Both (CW and CCW)  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 202 lb

Output	25%		50%		75%		100%	
Efficiency (%)	90.0	85.6	90.2	88.0	91.0	88.5	91.0	91.2
	85.8	85.9	88.1	88.2	88.6	88.7	91.2	91.2
Power Factor	0.49	0.47	0.72	0.69	0.82	0.80	0.85	0.85
	0.40	0.36	0.62	0.57	0.75	0.70	0.82	0.78

Foundation loads

Max. traction

Max. compression

	Drive end	Non drive end
Bearing type	6309 Z C3	6209 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	9 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			
		Page		Revision
		1 / 1		