

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14494163

Catalog # : 01518OT3E254TC-W40

Frame	: 254TC	Locked rotor time	: 61s (cold) 34s (hot)
Output	: 15 HP (11 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 35.0/17.5 A	Protection degree	: IP23
L. R. Amperes	: 224/112 A	Cooling method	: IC01 - ODP
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 13.6/6.80 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1775 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 44.4 ft.lb	Approx. weight ³	: 254 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 2.72 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%	
Efficiency (%)	91.0	88.9	91.7	89.2	92.4	91.0	93.0	91.0
	89.0	89.0	89.2	89.2	91.0	91.0	91.0	91.0
Power Factor	0.43	0.38	0.66	0.62	0.78	0.75	0.85	0.82
	0.35	0.32	0.58	0.55	0.72	0.69	0.80	0.78

Foundation loads
Max. traction
Max. compression

		<u>Drive end</u>	<u>Non drive end</u>
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		Page 1 / 1		
Checked by				
Date	29/03/2024			
			Revision	