

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: W40 NEMA Premium Efficiency Three-Phase		Product code :	14786494
			Catalog # :	02512OT3E324TC-W40
Frame	: 324TC	Locked rotor time	: 32s (cold) 18s (hot)	
Output	: 25 HP (18.5 kW)	Temperature rise	: 80 K	
Poles	: 6	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	: 61.6/30.8 A	Protection degree	: IP23	
L. R. Amperes	: 382/191 A	Cooling method	: IC01 - ODP	
LRC	: 6.2x(Code G)	Mounting	: F-1	
No load current	: 28.4/14.2 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1183 rpm	Noise level ²	: 62.0 dB(A)	
Slip	: 1.42 %	Starting method	: Direct On Line	
Rated torque	: 111 ft.lb	Approx. weight ³	: 468 lb	
Locked rotor torque	: 210 %			
Breakdown torque	: 250 %			
Insulation class	: F			
Service factor	: 1.25			
Moment of inertia (J)	: 7.69 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	91.0	90.6	91.7	90.8
	90.9	90.1	91.0	90.3
Power Factor	0.39	0.39	0.65	0.65
	0.35	0.32	0.60	0.56
Bearing type		Drive end	Non drive end	
Sealing		6312 Z C3	6211 Z C3	
Lubrication interval		Without Bearing Seal	Without Bearing Seal	
Lubricant amount		20000 h	20000 h	
Lubricant type		21 g	11 g	
Notes:				
This revision replaces and cancel the previous one, which must be eliminated.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.	
(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.				
Rev.	Changes Summary			Performed
				Checked
Performed by				
Checked by				
Date	29/03/2024			
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