

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14270941

Catalog # : 07518OT3E365TF2-W40

Frame	: 364/5T	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 75 HP (55 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	: 171/85.5 A	Protection degree	: IP23
L. R. Amperes	: 1163/581 A	Cooling method	: IC01 - ODP
LRC	: 6.8x(Code G)	Mounting	: F-2
No load current	: 61.0/30.5 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 221 ft.lb	Approx. weight ³	: 811 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 16.8 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	94.4	93.7	94.5	93.8	95.0	94.2	95.0	94.2	Max. traction	: 1632 lb
	93.7	93.7	93.8	93.8	94.2	94.2	94.2	94.2		
Power Factor	0.48	0.48	0.73	0.73	0.82	0.82	0.85	0.86	Max. compression	: 2443 lb
	0.43	0.40	0.69	0.66	0.80	0.77	0.84	0.83		

				<u>Drive end</u>		<u>Non drive end</u>
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				
Checked by				
Date	28/03/2024			
			Page	Revision
			1 / 1	