

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14272523

Catalog # : 10018OT3E404TC-W40

Frame	: 404/5TC	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 100 HP (75 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	: 229/115 A	Protection degree	: IP23
L. R. Amperes	: 1560/780 A	Cooling method	: IC01 - ODP
LRC	: 6.8x(Code G)	Mounting	: F-1
No load current	: 74.0/37.0 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	: 295 ft.lb	Approx. weight ³	: 1012 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 21.9 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	94.9	90.2	95.0	91.9	95.4	92.9	95.4	94.7	Max. traction	: 1880 lb
	90.3	90.3	92.0	92.0	92.9	92.9	94.7	94.7		
Power Factor	0.50	0.48	0.75	0.73	0.83	0.82	0.86	0.86	Max. compression	: 2892 lb
	0.46	0.43	0.72	0.68	0.80	0.78	0.85	0.84		

				<u>Drive end</u>		<u>Non drive end</u>
Bearing type	:			6316 C3		6212 Z C3
Sealing	:			Without Bearing Seal		Without Bearing Seal
Lubrication interval	:			20000 h		20000 h
Lubricant amount	:			34 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	29/03/2024			
			Page	Revision
			1 / 1	