

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 NEMA Premium Efficiency Three-Phase Product code : 10671885

Frame	: 184Y	Locked rotor time	: 77s (cold) 43s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: 40°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 8.13-7.35/3.67 A	Protection degree	: IP55
L. R. Amperes	: 71.5-64.7/32.3 A	Cooling method	: IC418 - TEAO
LRC	: 8.8x(Code K)	Mounting	: F-1
No load current	: 2.65-3.08/1.54 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3510 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 4.49 ft.lb	Approx. weight ³	: 98.8 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1998 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	80.5	82.0	82.5	82.5	85.5	85.5	87.5	85.5	Max. traction	: 78 lb
	81.2	81.3	82.5	82.5	85.5	85.5	86.5	86.5		
Power Factor	0.46	0.52	0.72	0.77	0.82	0.86	0.86	0.89	Max. compression	: 177 lb
	0.49	0.46	0.74	0.71	0.84	0.82	0.87	0.86		

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6307 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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 Revision 1 / 1		
Checked by				
Date	28/03/2024			