

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 NEMA Premium Efficiency Three-Phase Product code : 10120699

Frame	: 184Y	Locked rotor time	: 59s (cold) 33s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 8.63-7.80/3.90 A	Protection degree	: IP55
L. R. Amperes	: 69.0-62.4/31.2 A	Cooling method	: IC418 - TEAO
LRC	: 8.0x(Code K)	Mounting	: F-1
No load current	: 3.53-4.10/2.05 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 8.95 ft.lb	Approx. weight ³	: 95.9 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.3495 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	87.2	89.1	87.5	88.5	89.5	88.5	89.5	87.5	Max. traction	: 153 lb
	88.0	87.2	87.5	87.5	88.5	88.5	87.5	88.5		
Power Factor	0.35	0.41	0.60	0.67	0.72	0.78	0.79	0.83	Max. compression	: 249 lb
	0.38	0.35	0.63	0.59	0.75	0.72	0.81	0.79		

					<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				
Checked by				
Date	28/03/2024			
			Page	Revision
			1 / 1	