

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel High Efficiency Three-Phase Product code : 12677351

Frame	: 182/4TC	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 3 HP (2.2 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	: 8.10/4.05 A	Protection degree	: IP55
L. R. Amperes	: 62.4/31.2 A	Cooling method	: IC411 - TEFC
LRC	: 7.7x(Code K)	Mounting	: W-6
No load current	: 4.60/2.30 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	: 72.7 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.2935 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	85.2	86.4	85.5	85.5	87.5	84.6	Max. traction : 177 lb
	84.0		84.1		85.8	85.5	
Power Factor	0.33	0.39	0.58	0.66	0.71	0.78	Max. compression : 250 lb
	0.33		0.57		0.71	0.79	

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6206 ZZ	6205 ZZ
Sealing	:				V'Ring	Without Bearing Seal
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	26/03/2024			
			Page	Revision
			1 / 1	