

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency Three-Phase Product code : 13981165  
Catalog # : .1812EP3EAL71-W22

Frame	: 71	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 0.25 HP (0.18 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 0.787 A	Protection degree	: IP55
L. R. Amperes	: 2.75 A	Cooling method	: IC411 - TEFC
LRC	: 3.5	Mounting	: B3L(E)
No load current	: 0.650 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 880 rpm	Noise level <sup>2</sup>	: 43.0 dB(A)
Slip	: 12.00 %	Starting method	: Direct On Line
Rated torque	: 1.49 ft.lb	Approx. weight <sup>3</sup>	: 19.6 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0187 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	51.0	44.1	53.0	47.0	59.0	54.0	61.0	58.0	Max. traction	: 26 lb
	46.1		49.0		57.0		61.0		Max. compression	: 46 lb
Power Factor	0.21	0.18	0.37	0.32	0.47	0.41	0.57	0.49		
	0.18		0.31		0.40		0.48			

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6202 ZZ	6202 ZZ
Sealing	:				Oil Seal	Oil 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	