

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency Three-Phase      Product code : 14056443  
Catalog # : 3718EP3EAL71FF-W22

Frame	: 71	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 1.13 A	Protection degree	: IP55
L. R. Amperes	: 6.22 A	Cooling method	: IC411 - TEFC
LRC	: 5.5	Mounting	: B35L(E)
No load current	: 0.800 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1370 rpm	Noise level <sup>2</sup>	: 43.0 dB(A)
Slip	: 8.67 %	Starting method	: Direct On Line
Rated torque	: 1.92 ft.lb	Approx. weight <sup>3</sup>	: 22.1 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 210 %		
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 (%)	65.9	61.5	68.0	64.0	71.0	70.0	73.0	72.7	Max. traction	: 37 lb
	63.0		65.0		71.0		73.0			
Power Factor	0.26	0.21	0.45	0.38	0.58	0.50	0.68	0.60	Max. compression	: 59 lb
	0.22		0.38		0.51		0.60			

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	34.4	34.9	34.4
	P2 (0,5;1,0)	28.0	28.5	28.0
	P3 (0,25;1,0)	28.4	28.8	28.4
	P4 (0,9;0,5)	25.1	25.5	25.1
	P5 (0,5;0,5)	18.4	18.6	18.4
	P6 (0,5;0,25)	16.7	16.9	16.7
	P7 (0,25;0,25)	12.5	12.7	12.5

		<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 1 / 1	Revision