

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency Three-Phase Product code : 13958126
Catalog # : .3718EP3EAL71-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	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 2.12/1.06 A	Protection degree	: IP55
L. R. Amperes	: 11.7/5.83 A	Cooling method	: IC411 - TEFC
LRC	: 5.5	Mounting	: B3L(E)
No load current	: 1.60/0.800 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1710 rpm	Noise level ²	: 47.0 dB(A)
Slip	: 5.00 %	Starting method	: Direct On Line
Rated torque	: 1.54 ft.lb	Approx. weight ³	: 24.3 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0190 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	0.000	65.0	68.0	71.0	71.0	73.0	73.0	Max. traction	: 40 lb	
	0.000	64.0	70.0	72.7						
	0.000									
Power Factor	0.00	0.00	0.38	0.45	0.51	0.58	0.60	0.68	Max. compression	: 64 lb
	0.00	0.38	0.50	0.60						

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

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

		Drive end	Non drive end
Bearing type	:	6202 ZZ	6202 ZZ
Sealing	:	Oil Seal	Oil Seal
Lubrication interval	:	0 h	0 h
Lubricant amount	:	0 g	0 g
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	