

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency Three-Phase Product code : 13983025
Catalog # : .3709EP3EAL90S-W22

Frame	: 90S/L	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K
Poles	: 8	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	: 1.29 A	Protection degree	: IP55
L. R. Amperes	: 4.39 A	Cooling method	: IC411 - TEFC
LRC	: 3.4	Mounting	: B3L(E)
No load current	: 0.900 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 690 rpm	Noise level ²	: 44.0 dB(A)
Slip	: 8.00 %	Starting method	: Direct On Line
Rated torque	: 3.81 ft.lb	Approx. weight ³	: 36.0 lb
Locked rotor torque	: 150 %		
Breakdown torque	: 160 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1063 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	53.0	49.6	55.0	52.0	64.9	64.0	67.0	67.0	Max. traction	: 38 lb
	56.3		56.5		62.0		61.5			
Power Factor	0.28	0.24	0.48	0.42	0.58	0.51	0.65	0.61	Max. compression	: 74 lb
	0.21		0.38		0.50		0.60			

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6205 ZZ	6204 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	