

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 17009610
Catalog # : 5018ES1RAD56NZ-S

Frame	: 56Z	Locked rotor time	: 50s (cold) 28s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 110/220 V	Altitude	: 1000 m.a.s.l.
Rated current	: 8.09/4.04 A	Protection degree	: IP55
L. R. Amperes	: 48.5/24.2 A	Cooling method	: IC411 - TEFC
LRC	: 6.0x(Code M)	Mounting	: F-1
No load current	: 6.70/3.35 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1450 rpm	Noise level ²	: 54.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 1.81 ft.lb	Approx. weight ³	: 31.1 lb
Locked rotor torque	: 360 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0831 sq.ft.lb		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	0.000	50.0	55.0	56.0	62.5	64.0 68.0	Max. traction	: 27 lb		
	0.000									
Power Factor	0.00	0.00	0.47	0.48	0.57	0.59	0.65	0.67	Max. compression	: 58 lb

		Drive end	Non drive end
Bearing type	:	6204 ZZ	6202 ZZ
Sealing	:	V'Ring	V'Ring
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		Page 1 / 1		
Checked by				
Date	26/03/2024			
			Revision	