

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line	: W22 Single-Phase			Product code :	14091668
				Catalog # :	00512ES1E215T-W22
Frame	: 213/5T	Locked rotor time	: 25s (cold) 14s (hot)		
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K		
Poles	: 6	Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 22.0-21.2/10.6 A	Protection degree	: IP55		
L. R. Amperes	: 185-178/89.0 A	Cooling method	: IC411 - TEFC		
LRC	: 8.4x(Code K)	Mounting	: F-1		
No load current	: 6.47-7.50/3.75 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1175 rpm	Noise level ²	: 63.0 dB(A)		
Slip	: 2.08 %	Starting method	: Direct On Line		
Rated torque	: 22.3 ft.lb	Approx. weight ³	: 186 lb		
Locked rotor torque	: 220 %				
Breakdown torque	: 250 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 1.98 sq.ft.lb				

Output	50%	75%	100%	Foundation loads
Efficiency (%)	77.0	83.9	82.5	Max. traction : 222 lb
Power Factor	0.85	0.90	0.92	Max. compression : 408 lb

	Drive end	Non drive end
Bearing type	: 6308 ZZ	6206 ZZ
Sealing	: V'Ring	V'Ring
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	28/03/2024				
				Page	Revision
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