

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JM Pump Single-Phase

Product code : 14090106
Catalog # : 00218ES1E145JM-W22

Frame	: 143/5JM	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 9.50-9.12/4.56 A	Protection degree	: IP55
L. R. Amperes	: 70.3-67.5/33.7 A	Cooling method	: IC411 - TEFC
LRC	: 7.4x(Code J)	Mounting	: F-1
No load current	: 3.62-4.20/2.10 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1745 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 3.06 %	Starting method	: Direct On Line
Rated torque	: 6.02 ft.lb	Approx. weight ³	: 69.4 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1497 sq.ft.lb		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	65.8	68.5	75.5	78.5	Max. traction	: 91 lb
Power Factor	0.51	0.81	0.87	0.91	Max. compression	: 160 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6203 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		Page 1 / 1		
Checked by				
Date	30/03/2024			
			Revision	