

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 High Efficiency Three-Phase

Product code : 10672529
Catalog # : 00156EP3EPM143/5Y

Frame	: 145T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: 40°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 4.14/2.07 A	Protection degree	: IP55
L. R. Amperes	: 35.2/17.6 A	Cooling method	: IC418 - TEAO
LRC	: 8.5x(Code L)	Mounting	: F-1
No load current	: 2.00/1.00 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3480 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 2.26 ft.lb	Approx. weight ³	: 39.8 lb
Locked rotor torque	: 300 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0361 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	77.3	78.0	78.5	78.5	81.5	81.5	82.5	81.5	Max. traction	: 65 lb
	75.3	73.8	77.0	75.5	80.0	80.0	81.5	81.5		
Power Factor	0.39	0.45	0.64	0.71	0.74	0.82	0.81	0.87	Max. compression	: 105 lb
	0.42	0.39	0.67	0.64	0.78	0.75	0.84	0.82		

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6205 ZZ	6204 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
			1 / 1	