

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 NEMA Premium Efficiency Three-Phase Product code : 10563143

Frame	: 215Y	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: 40°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 20.5-18.6/9.29 A	Protection degree	: IP55
L. R. Amperes	: 154-139/69.7 A	Cooling method	: IC418 - TEAO
LRC	: 7.5x(Code J)	Mounting	: F-1
No load current	: 7.59-8.80/4.40 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 22.3 ft.lb	Approx. weight ³	: 158 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.38 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	90.3	90.6	90.5	90.2	91.7	90.2	91.7	89.5	Max. traction	: 255 lb
	90.6	90.7	90.2	90.2	91.0	91.0	90.2	90.2		
Power Factor	0.39	0.44	0.64	0.70	0.74	0.78	0.80	0.83	Max. compression	: 412 lb
	0.41	0.38	0.67	0.64	0.76	0.74	0.82	0.80		

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6308 ZZ	6207 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			

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Revision