

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10016389

Frame	: 213/5T	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 18.1/9.03 A	Protection degree	: IP21
L. R. Amperes	: 135/67.7 A	Cooling method	: IC01 - ODP
LRC	: 7.5x(Code J)	Mounting	: F-2
No load current	: 7.60/3.80 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1765 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 22.3 ft.lb	Approx. weight ³	: 103 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.9198 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	88.1	83.1	89.0	84.7	90.2	87.0	91.0	88.6	Max. traction	: 435 lb
	81.9	80.8	83.7	82.8	86.8	86.6	88.6	88.6		
	87.1	86.0	86.5	86.5	87.5	87.5	86.5	87.7		
	85.4		86.5		87.5		88.5			
Power Factor	0.43	0.37	0.68	0.57	0.79	0.71	0.84	0.80	Max. compression	: 538 lb
	0.33	0.31	0.53	0.50	0.67	0.63	0.76	0.73		
	0.46	0.42	0.68	0.64	0.80	0.76	0.86	0.83		
	0.38		0.60		0.73		0.81			

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6208 ZZ	6206 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
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 Revision		
Checked by				
Date	25/03/2024			