

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 High Efficiency Three-Phase Product code : 10837634

Frame	: 215Y	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 105 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	: 25.6/12.8 A	Protection degree	: IP55
L. R. Amperes	: 161/80.6 A	Cooling method	: IC411 - TEFC
LRC	: 6.3x(Code H)	Mounting	: F-1
No load current	: 10.5/5.25 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 29.8 ft.lb	Approx. weight ³	: 151 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.25 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	89.9	85.9	89.5	85.5	90.2	87.5	89.5	86.5	Max. traction	: 354 lb
	85.9	87.0	85.5	86.5	87.5	88.5	86.5	87.5		
Power Factor	0.41	0.46	0.65	0.71	0.77	0.81	0.82	0.84	Max. compression	: 504 lb
	0.43	0.41	0.68	0.66	0.79	0.78	0.83	0.83		

					<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		Page 1 / 1		
Checked by				
Date	28/03/2024			
			Revision	