

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 14504365

Catalog # : 00209XT3E213T

Frame	: 213/5T	Locked rotor time	: 63s (cold) 35s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 8	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	: 6.90/3.45 A	Protection degree	: IP55
L. R. Amperes	: 48.3/24.2 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code L)	Mounting	: F-1
No load current	: 4.40/2.20 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 875 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 12.0 ft.lb	Approx. weight ³	: 181 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.31 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	78.4	80.6	80.0	81.0	82.5	81.5	84.0	81.5	Max. traction	: 140 lb
	81.2	81.2	81.5	81.5	82.5	82.5	82.5	82.5		
Power Factor	0.25	0.30	0.45	0.52	0.57	0.61	0.65	0.71	Max. compression	: 321 lb
	0.27	0.25	0.49	0.46	0.59	0.57	0.69	0.67		

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 2RS	6207 2RS
Sealing	:	Oil Seal	Lip 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 / 2 Revision		
Checked by				
Date	28/03/2024			

Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	28/03/2024				