

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Flameproof Motor NEMA
Premium Efficiency Three-Phase

Product code : 12408944

Catalog # : 00209XT3E213T

Frame	: 213T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 165 lb
Protection degree	: IP55	Moment of inertia (J)	: 1.31 sq.ft.lb
Design	: B		

Output [HP]	2	2	2	2
Poles	8	8	8	8
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	7.63-6.90/3.45	3.94	3.80	3.78
L. R. Amperes [A]	58.0-52.4/26.2	29.9	28.9	28.7
LRC [A]	7.6x(Code L)	7.6x(Code K)	7.6x(Code L)	7.6x(Code L)
No load current [A]	3.97-4.60/2.30	2.30	2.40	2.55
Rated speed [RPM]	870	710	715	715
Slip [%]	3.33	5.33	4.67	4.67
Rated torque [ft.lb]	11.8	14.6	14.4	14.4
Locked rotor torque [%]	270	210	240	270
Breakdown torque [%]	300	220	250	280
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	63s (cold) 35s (hot)	63s (cold) 35s (hot)	63s (cold) 35s (hot)	63s (cold) 35s (hot)
Noise level ²	52.0 dB(A)	48.0 dB(A)	48.0 dB(A)	48.0 dB(A)
Efficiency (%)	25%			
	50%	80.0	81.0	81.5
	75%	82.5	81.5	82.5
	100%	84.0	81.5	82.5
Power Factor	25%			
	50%	0.45	0.52	0.49
	75%	0.57	0.61	0.59
	100%	0.65	0.71	0.69

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6308 2RS	: 6207 2RS	Max. traction : 149 lb
Sealing	: Oil Seal	: Lip Seal	Max. compression : 314 lb
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.

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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	130 °C
2	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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