

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Flameproof Motor NEMA Premium Efficiency Three-Phase  
Product code : 12408948  
Catalog # : 00312XT3E213TC

Frame : 213TC	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation <sup>1</sup> : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight <sup>2</sup> : 186 lb
Protection degree : IP55	Moment of inertia (J) : 1.20 sq.ft.lb
Design : B	

Output [HP]	3	3	3	3
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	9.75-8.82/4.41	5.09	4.92	4.87
L. R. Amperes [A]	68.3-61.7/30.9	29.5	31.5	33.1
LRC [A]	7.0x(Code K)	5.8x(Code J)	6.4x(Code K)	6.8x(Code K)
No load current [A]	4.48-5.20/2.60	2.55	2.75	2.90
Rated speed [RPM]	1175	965	970	970
Slip [%]	2.08	3.50	3.00	3.00
Rated torque [ft.lb]	13.2	16.0	16.0	15.9
Locked rotor torque [%]	220	170	200	220
Breakdown torque [%]	250	200	229	250
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	104s (cold) 58s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)
Noise level <sup>2</sup>	55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%	85.4	88.0	86.1
	50%	86.5	87.5	86.5
	75%	88.5	88.5	88.5
	100%	89.5	87.5	88.5
Power Factor	25%	0.29	0.34	0.29
	50%	0.50	0.57	0.50
	75%	0.62	0.70	0.64
	100%	0.70	0.75	0.71

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6308 2RS	6207 2RS	Max. traction : 136 lb
Sealing :	Oil Seal	Lip Seal	Max. compression : 322 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	23/01/2018			

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Revision

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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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Performed by				Page	Revision
Checked by				2 / 2	
Date	23/01/2018				