

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Flameproof Motor NEMA Premium Efficiency Three-Phase
Product code : 12408341
Catalog # : 00736XT3E213TC

Frame : 213TC	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 : 180 lb
Protection degree : IP55	Moment of inertia (J) : 0.4696 sq.ft.lb
Design : B	

Output [HP]	7.5	7.5	7.5	7.5
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	19.8-17.1/8.57	10.5	9.91	9.61
L. R. Amperes [A]	139-120/60.0	57.7	59.5	62.5
LRC [A]	7.0x(Code H)	5.5x(Code G)	6.0x(Code F)	6.5x(Code H)
No load current [A]	4.31-5.00/2.50	2.50	2.70	2.90
Rated speed [RPM]	3510	2880	2895	2905
Slip [%]	2.50	4.00	3.50	3.17
Rated torque [ft.lb]	11.0	13.4	13.4	13.3
Locked rotor torque [%]	220	160	200	220
Breakdown torque [%]	300	229	260	280
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	41s (cold) 23s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)	46s (cold) 26s (hot)
Noise level ²	72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%	84.3	85.8	85.7
	50%	85.5	86.5	86.5
	75%	88.5	87.0	88.5
	100%	89.5	87.5	89.0
Power Factor	25%	0.57	0.62	0.58
	50%	0.81	0.84	0.81
	75%	0.87	0.89	0.88
	100%	0.90	0.91	0.90

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6308 2RS	6207 2RS	Max. traction : 124 lb
Sealing :	Oil Seal	Lip Seal	Max. compression : 304 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			

Page 1 / 2
Revision

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date	23/01/2018				