

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11342123

Catalog # : 01018XT3E215T

Frame	: 215T	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	: 203 lb
Protection degree	: IP55	Moment of inertia (J)	: 1.34 sq.ft.lb
Design	: B		

Output [HP]	10	10	10	10
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	28.1-25.4/12.7	15.3	14.6	14.3
L. R. Amperes [A]	211-191/95.2	87.2	94.9	98.7
LRC [A]	7.5x(Code J)	5.7x(Code G)	6.5x(Code H)	6.9x(Code H)
No load current [A]	10.9-12.6/6.30	6.15	6.70	7.05
Rated speed [RPM]	1765	1445	1450	1455
Slip [%]	1.94	3.67	3.33	3.00
Rated torque [ft.lb]	29.4	35.9	35.7	35.6
Locked rotor torque [%]	250	190	220	240
Breakdown torque [%]	300	220	250	270
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²	58.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%	89.4	90.9	90.6
	50%	90.2	90.2	90.2
	75%	91.0	89.5	90.2
	100%	91.7	88.5	90.2
Power Factor	25%	0.37	0.44	0.40
	50%	0.62	0.70	0.66
	75%	0.75	0.80	0.78
	100%	0.81	0.84	0.83

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6308 2RS	6207 2RS	Max. traction	: 448 lb
Sealing	: Oil Seal	Lip Seal	Max. compression	: 651 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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