

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11452806
Catalog # : 00159ET3E184T-W22

Frame : 182/4T	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 : 96.0 lb
Protection degree : IP55	Moment of inertia (J) : 0.5766 sq.ft.lb
Design : B	

Output [HP]	1.5	1.5	1.5	1.5
Poles	8	8	8	8
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	5.97-5.40/2.70	3.04	3.01	2.99
L. R. Amperes [A]	32.8-29.7/14.9	16.7	16.6	16.4
LRC [A]	5.5x(Code K)	5.5x(Code H)	5.5x(Code J)	5.5x(Code K)
No load current [A]	3.13-3.63/1.81	1.79	1.92	2.04
Rated speed [RPM]	860	695	700	705
Slip [%]	4.44	7.33	6.67	6.00
Rated torque [ft.lb]	8.98	11.0	10.9	10.9
Locked rotor torque [%]	250	200	229	260
Breakdown torque [%]	260	190	210	240
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)
Noise level ²	50.0 dB(A)	46.0 dB(A)	46.0 dB(A)	46.0 dB(A)
Efficiency (%)	25%	79.5	80.8	78.0
	50%	80.0	80.0	78.5
	75%	82.5	80.0	80.0
	100%	82.5	78.5	80.0
Power Factor	25%	0.24	0.29	0.26
	50%	0.43	0.51	0.47
	75%	0.54	0.62	0.58
	100%	0.62	0.70	0.66

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6207 ZZ	6206 ZZ	Max. traction : 123 lb
Sealing :	V'Ring	V'Ring	Max. compression : 219 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	24/01/2018			

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