

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11380828
Catalog # : 20012ET3E449T-W22

Frame : 447/9T	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 : 2.2 lb
Protection degree : IP55	Moment of inertia (J) : 145 sq.ft.lb
Design : B	

Output [HP]	200	150	150	150	200	200	200
Poles	6	6	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	524-474/237	214	209	204	285	273	265
L. R. Amperes [A]	3459-3128/1564	1391	1505	1571	1482	1611	1696
LRC [A]	6.6x(Code G)	6.5x(Code G)	7.2x(Code H)	7.7x(Code J)	5.2x(Code E)	5.9x(Code F)	6.4x(Code G)
No load current [A]	172-200/100	98.9	106	111	98.9	106	111
Rated speed [RPM]	1188	990	990	990	985	985	985
Slip [%]	1.00	1.00	1.00	1.00	1.50	1.50	1.50
Rated torque [ft.lb]	872	785	785	785	1050	1050	1050
Locked rotor torque [%]	229	229	250	270	180	200	220
Breakdown torque [%]	240	260	280	310	190	210	229
Service factor	1.15	1.15	1.15	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	27s (cold) 15s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²	70.0 dB(A)						
Efficiency (%)	25%	94.5	94.4	94.4	94.4	94.8	94.4
	50%	95.0	94.5	94.5	94.5	94.5	94.0
	75%	95.4	95.1	95.1	95.1	94.5	94.5
	100%	95.8	95.1	95.1	95.1	94.0	94.5
Power Factor	25%	0.42	0.39	0.36	0.34	0.48	0.42
	50%	0.68	0.65	0.62	0.59	0.74	0.71
	75%	0.79	0.76	0.74	0.71	0.83	0.81
	100%	0.83	0.82	0.80	0.79	0.85	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6322 C3	6319 C3	Max. traction : 6537 lb
Sealing :	WSeal	WSeal	Max. compression : 6539 lb
Lubrication interval :	11000 h	13000 h	
Lubricant amount :	60 g	45 g	
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		Page 1 / 1		
Checked by				
Date	27/01/2018			
		Revision		