

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11679187
Catalog # : 45036ET3G449TS-W22

Frame : L447/9TS	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 : 3338 lb
Protection degree : IP55	Moment of inertia (J) : 100 sq.ft.lb
Design : B	

Output [HP]	450	400	400	400
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	475	523	497	484
L. R. Amperes [A]	3420	3295	3429	3727
LRC [A]	7.2x(Code G)	6.3x(Code F)	6.9x(Code G)	7.7x(Code H)
No load current [A]	115	110	118	124
Rated speed [RPM]	3575	2975	2975	2980
Slip [%]	0.69	0.83	0.83	0.67
Rated torque [ft.lb]	652	697	697	695
Locked rotor torque [%]	240	210	229	240
Breakdown torque [%]	260	240	260	280
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	105 K	105 K	105 K
Locked rotor time	46s (cold) 26s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	34s (cold) 19s (hot)
Noise level ²	88.0 dB(A)	86.0 dB(A)	86.0 dB(A)	86.0 dB(A)
Efficiency (%)	25%	95.3	95.3	95.3
	50%	95.4	95.4	95.4
	75%	95.8	95.8	95.8
	100%	95.8	95.8	95.8
Power Factor	25%	0.61	0.64	0.60
	50%	0.84	0.85	0.83
	75%	0.89	0.90	0.89
	100%	0.91	0.91	0.91

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6314 C3	6314 C3	Max. traction : 3592 lb
Sealing :	WSeal	WSeal	Max. compression : 6930 lb
Lubrication interval :	4000 h	4000 h	
Lubricant amount :	27 g	27 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 Revision 1 / 1		
Checked by				
Date	27/01/2018			