

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11584442
Catalog # : 15012ST3QIERB447T-W2

Frame : 445/7T	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 : 2358 lb
Protection degree : IP55	Moment of inertia (J) : 134 sq.ft.lb
Design : B	

Output [HP]	150	125	125	125	150	150	150
Poles	6	6	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	176	174	167	165	211	201	196
L. R. Amperes [A]	1074	1027	1069	1139	1034	1085	1156
LRC [A]	6.1x(Code G)	5.9x(Code F)	6.4x(Code G)	6.9x(Code H)	4.9x(Code E)	5.4x(Code F)	5.9x(Code F)
No load current [A]	65.0	64.2	69.2	73.1	64.2	69.2	73.1
Rated speed [RPM]	1185	985	985	990	985	985	990
Slip [%]	1.25	1.50	1.50	1.00	1.50	1.50	1.00
Rated torque [ft.lb]	656	657	657	654	789	789	785
Locked rotor torque [%]	229	210	229	250	170	190	210
Breakdown torque [%]	250	270	290	330	220	240	270
Service factor	1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	105 K	105 K	105 K	105 K	105 K	105 K	105 K
Locked rotor time	36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	69.0 dB(A)						
Efficiency (%)	25%	94.5	94.8	94.3	94.4	95.3	94.9
	50%	95.0	94.8	94.5	94.5	95.0	95.0
	75%	95.4	95.1	95.1	95.1	95.0	95.0
	100%	95.8	94.9	95.1	95.1	94.5	95.0
Power Factor	25%	0.44	0.44	0.41	0.38	0.50	0.43
	50%	0.67	0.67	0.64	0.60	0.73	0.67
	75%	0.78	0.79	0.76	0.74	0.82	0.78
	100%	0.82	0.83	0.82	0.80	0.84	0.82

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	NU-319 C3	6316 C3	Max. traction : 4548 lb
Sealing :	Inpro/Seal	Inpro/Seal	Max. compression : 6906 lb
Lubrication interval :	9000 h	16000 h	
Lubricant amount :	45 g	34 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				
Checked by				
Date	23/01/2018			

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Revision