

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11568741
Catalog # : 06009ET3E405T-W22

Frame : 404/5T	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 : 1152 lb
Protection degree : IP55	Moment of inertia (J) : 40.2 sq.ft.lb
Design : B	

Output [HP]	60	50	50	50	60	60	60
Poles	8	8	8	8	8	8	8
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	161-146/73.0	72.9	70.9	69.2	89.2	85.0	82.9
L. R. Amperes [A]	1049-949/475	445	475	505	455	485	514
LRC [A]	6.5x(Code H)	6.1x(Code G)	6.7x(Code H)	7.3x(Code J)	5.1x(Code E)	5.7x(Code F)	6.2x(Code G)
No load current [A]	51.7-60.0/30.0	29.7	32.0	33.9	29.7	32.0	33.9
Rated speed [RPM]	880	725	730	730	720	725	725
Slip [%]	2.22	3.33	2.67	2.67	4.00	3.33	3.33
Rated torque [ft.lb]	353	357	355	355	432	429	429
Locked rotor torque [%]	180	180	210	229	150	170	190
Breakdown torque [%]	270	250	290	310	210	240	260
Service factor	1.25	1.00	1.00	1.00	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	23s (cold) 13s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level ²	60.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%	92.8	92.4	91.9	92.0	93.5	92.8
	50%	93.0	92.4	91.9	91.9	92.4	92.4
	75%	93.0	92.1	92.1	92.2	91.7	91.7
	100%	93.0	91.8	91.8	91.8	90.2	91.0
Power Factor	25%	0.42	0.42	0.39	0.36	0.49	0.42
	50%	0.68	0.67	0.64	0.61	0.74	0.68
	75%	0.78	0.79	0.77	0.74	0.82	0.78
	100%	0.83	0.84	0.82	0.81	0.85	0.83

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6316 C3	6314 C3	Max. traction : 2816 lb
Sealing :	WSeal	WSeal	Max. compression : 3968 lb
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	34 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				
Checked by				
Date	27/01/2018			

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Revision