

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11431306
Catalog # : 05036ST3QIE326TS-W22

Frame : 324/6TS	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 : 579 lb
Protection degree : IP55	Moment of inertia (J) : 5.75 sq.ft.lb
Design : B	

Output [HP]	50	40	40	40	50	50	50
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	56.1	54.9	52.1	50.3	69.4	65.4	62.6
L. R. Amperes [A]	348	335	349	362	333	347	357
LRC [A]	6.2x(Code F)	6.1x(Code F)	6.7x(Code G)	7.2x(Code H)	4.8x(Code D)	5.3x(Code E)	5.7x(Code F)
No load current [A]	15.0	14.8	16.0	16.8	14.8	16.0	16.8
Rated speed [RPM]	3550	2950	2955	2955	2935	2940	2945
Slip [%]	1.39	1.67	1.50	1.50	2.17	2.00	1.83
Rated torque [ft.lb]	73.0	70.2	70.1	70.1	88.3	88.1	88.0
Locked rotor torque [%]	220	210	240	250	170	190	200
Breakdown torque [%]	229	229	250	280	180	200	220
Service factor	1.25	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	41s (cold) 23s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²	78.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
Efficiency (%)	25%	92.9	92.3	91.6	91.8	94.2	93.5
	50%	93.0	92.8	92.2	92.2	93.0	93.0
	75%	93.0	92.9	92.8	93.1	92.4	92.4
	100%	93.0	93.3	93.3	93.3	91.0	91.7
Power Factor	25%	0.58	0.57	0.53	0.50	0.63	0.60
	50%	0.83	0.80	0.77	0.76	0.86	0.84
	75%	0.87	0.88	0.87	0.85	0.88	0.88
	100%	0.89	0.89	0.89	0.89	0.89	0.89

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6312 C3	6212 C3	Max. traction : 463 lb
Sealing :	Inpro/Seal	Inpro/Seal	Max. compression : 1042 lb
Lubrication interval :	12000 h	15000 h	
Lubricant amount :	21 g	13 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	24/01/2018			
		Revision		