

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12039625
Catalog # : 04009ST3QIE365TC-W22

Frame : 364/5TC	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 : 914 lb
Protection degree : IP55	Moment of inertia (J) : 29.0 sq.ft.lb
Design : B	

Output [HP]	40	30	30	30	40	40	40
Poles	8	8	8	8	8	8	8
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	50.3	46.5	45.1	44.5	61.4	58.5	56.6
L. R. Amperes [A]	337	288	343	356	319	339	357
LRC [A]	6.7x(Code G)	6.2x(Code G)	7.6x(Code H)	8.0x(Code J)	5.2x(Code E)	5.8x(Code F)	6.3x(Code G)
No load current [A]	23.5	23.2	24.9	26.3	23.2	24.9	26.3
Rated speed [RPM]	880	735	735	735	725	725	730
Slip [%]	2.22	2.00	2.00	2.00	3.33	3.33	2.67
Rated torque [ft.lb]	234	211	210	210	286	284	284
Locked rotor torque [%]	170	190	210	229	140	160	170
Breakdown torque [%]	229	240	270	300	180	200	220
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	80 K	80 K	80 K
Locked rotor time	32s (cold) 18s (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	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%	92.7	92.0	91.7	90.8	92.9	92.1
	50%	92.4	91.5	91.5	90.9	91.7	91.7
	75%	93.0	91.6	91.9	91.8	91.0	91.7
	100%	92.4	90.9	91.5	91.7	89.5	91.0
Power Factor	25%	0.39	0.36	0.33	0.31	0.45	0.39
	50%	0.66	0.62	0.58	0.55	0.72	0.66
	75%	0.76	0.73	0.72	0.69	0.80	0.78
	100%	0.81	0.79	0.77	0.75	0.83	0.81

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6314 C3	6314 C3	Max. traction : 1710 lb
Sealing :	Inpro/Seal	Inpro/Seal	Max. compression : 2624 lb
Lubrication interval :	20000 h	20000 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 1 / 1		
Checked by				
Date	19/01/2018			
		Revision		