

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code :	11584438				
		Catalog # :	10009ST3QIE445T-W22				
Frame	: 444/5T	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	: 1777 lb				
Protection degree	: IP55	Moment of inertia (J)	: 87.3 sq.ft.lb				
Design	: B						
Output [HP]	100	75	75	75	100	100	100
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]	127	118	116	115	152	147	144
L. R. Amperes [A]	762	717	778	806	714	779	806
LRC [A]	6.0x(Code G)	6.1x(Code G)	6.7x(Code J)	7.0x(Code J)	4.7x(Code E)	5.3x(Code F)	5.6x(Code G)
No load current [A]	56.0	55.0	61.0	67.0	55.0	61.0	67.0
Rated speed [RPM]	890	740	740	740	735	740	740
Slip [%]	1.11	1.33	1.33	1.33	2.00	1.33	1.33
Rated torque [ft.lb]	582	525	525	525	705	700	700
Locked rotor torque [%]	190	200	229	250	150	170	190
Breakdown torque [%]	220	229	270	290	170	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	27s (cold) 15s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²	63.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)	59.0 dB(A)
Efficiency (%)	25%						
	50%	93.6	92.9	91.9	91.2	93.6	93.0
	75%	94.1	93.4	93.0	92.6	93.0	93.0
	100%	94.1	93.2	93.2	93.1	92.4	93.0
Power Factor	25%						
	50%	0.63	0.59	0.55	0.51	0.69	0.65
	75%	0.74	0.72	0.68	0.65	0.78	0.75
	100%	0.79	0.78	0.75	0.73	0.81	0.79
Bearing type	: Drive end : 6319 C3	Non drive end : 6316 C3	Foundation loads				
Sealing	: Inpro/Seal	Inpro/Seal	Max. traction	: 3273 lb			
Lubrication interval	: 17000 h	20000 h	Max. compression	: 5050 lb			
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					Page	Revision	
Date	23/01/2018				1 / 1		