

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11568627					
		Catalog # :	07509ET3E444T-W22					
Frame	: 444/5T	Cooling method	: IC411 - TEFC					
Insulation class	: F	Mounting	: F-1					
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)					
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line					
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 1499 lb					
Protection degree	: IP55	Moment of inertia (J)	: 73.6 sq.ft.lb					
Design	: B							
Output [HP]	75	50	50	50	75	75	75	
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]	206-186/93.0	77.8	78.0	77.3	113	107	106	
L. R. Amperes [A]	1234-1116/558	529	570	603	531	567	604	
LRC [A]	6.0x(Code G)	6.8x(Code H)	7.3x(Code J)	7.8x(Code K)	4.7x(Code E)	5.3x(Code F)	5.7x(Code G)	
No load current [A]	69.0-80.0/40.0	39.3	43.6	47.0	39.3	43.6	47.0	
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]	437	350	350	350	529	525	525	
Locked rotor torque [%]	180	210	240	270	140	160	180	
Breakdown torque [%]	210	260	290	320	170	190	210	
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	32s (cold) 18s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	
Noise level <sup>2</sup>	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%	92.9	92.6	90.8	90.6	94.0	92.8	92.8
	50%	93.0	92.6	91.3	91.2	93.0	92.4	92.4
	75%	93.6	93.2	92.6	92.5	93.0	93.0	93.0
	100%	93.6	93.0	92.9	92.9	91.7	92.4	92.4
Power Factor	25%	0.40	0.33	0.30	0.28	0.46	0.41	0.38
	50%	0.64	0.56	0.52	0.49	0.70	0.66	0.63
	75%	0.74	0.69	0.65	0.62	0.78	0.75	0.73
	100%	0.79	0.77	0.73	0.71	0.81	0.80	0.78
Bearing type	: Drive end : 6319 C3	Non drive end : 6316 C3	Foundation loads					
Sealing	: WSeal	WSeal	Max. traction : 2230 lb					
Lubrication interval	: 17000 h	20000 h	Max. compression : 3729 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	27/01/2018				1 / 1			