

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12446714					
		Catalog # :	00736ET3E213TC-W22					
Frame	: 213/5TC	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>	: 157 lb					
Protection degree	: IP55	Moment of inertia (J)	: 0.4665 sq.ft.lb					
Design	: B							
Output [HP]	7.5	5	5	5	7.5	7.5	7.5	
Poles	2	2	2	2	2	2	2	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	208-230/460	380	400	415	380	400	415	
Rated current [A]	19.4-17.5/8.76	7.24	7.03	6.92	10.6	10.2	9.82	
L. R. Amperes [A]	140-126/63.1	59.4	64.0	67.1	60.4	65.3	67.8	
LRC [A]	7.2x(Code H)	8.2x(Code J)	9.1x(Code K)	9.7x(Code L)	5.7x(Code F)	6.4x(Code G)	6.9x(Code H)	
No load current [A]	4.66-5.40/2.70	2.84	3.05	3.22	2.70	2.90	3.30	
Rated speed [RPM]	3520	2940	2950	2952	2895	2905	2915	
Slip [%]	2.22	2.00	1.67	1.60	3.50	3.17	2.83	
Rated torque [ft.lb]	11.0	8.81	8.78	8.78	13.4	13.4	13.3	
Locked rotor torque [%]	210	260	290	320	170	190	210	
Breakdown torque [%]	300	380	420	450	229	260	280	
Service factor	1.25	1.25	1.25	1.25	1.25	1.25	1.25	
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time	48s (cold) 27s (hot)	77s (cold) 43s (hot)	68s (cold) 38s (hot)	63s (cold) 35s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	
Noise level <sup>2</sup>	72.0 dB(A)				72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	
Efficiency (%)	25%	87.2	86.4	86.1	85.8	89.1	88.1	87.2
	50%	87.5	86.7	86.4	86.1	88.5	87.5	87.5
	75%	89.5	88.2	88.3	88.5	88.5	88.5	88.5
	100%	89.5	88.2	88.3	88.5	87.5	87.5	88.5
Power Factor	25%	0.52	0.47	0.43	0.41	0.57	0.54	0.50
	50%	0.75	0.74	0.70	0.67	0.80	0.77	0.74
	75%	0.84	0.83	0.81	0.78	0.87	0.86	0.84
	100%	0.88	0.88	0.86	0.84	0.90	0.89	0.88
Bearing type	: Drive end : 6308 ZZ Non drive end : 6207 ZZ	Foundation loads						
Sealing	: V'Ring	V'Ring	Max. traction	: 135 lb				
Lubrication interval	: -	-	Max. compression	: 292 lb				
Lubricant amount	: -	-						
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	24/01/2018				1 / 1			