

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12446750					
		Catalog # :	01512ET3E284TC-W22					
Frame	: 284/6TC	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	: 403 lb					
Protection degree	: IP55	Moment of inertia (J)	: 7.85 sq.ft.lb					
Design	: B							
Output [HP]	15	10	10	10	15	15	15	
Poles	6	6	6	6	6	6	6	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	208-230/460	380	400	415	380	400	415	
Rated current [A]	39.6-35.8/17.9	15.5	15.1	14.9	22.0	20.9	20.2	
L. R. Amperes [A]	253-229/115	112	119	124	103	111	115	
LRC [A]	6.4x(Code G)	7.2x(Code J)	7.9x(Code K)	8.3x(Code K)	4.7x(Code E)	5.3x(Code F)	5.7x(Code F)	
No load current [A]	12.9-15.0/7.50	7.30	7.75	8.12	7.40	7.90	8.30	
Rated speed [RPM]	1175	985	985	985	965	970	975	
Slip [%]	2.08	1.50	1.50	1.50	3.50	3.00	2.50	
Rated torque [ft.lb]	66.1	52.6	52.6	52.6	80.5	80.1	79.7	
Locked rotor torque [%]	229	270	300	330	170	200	220	
Breakdown torque [%]	270	330	370	400	210	229	250	
Service factor	1.25	1.25	1.25	1.25	1.00	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time	36s (cold) 20s (hot)	61s (cold) 34s (hot)	54s (cold) 30s (hot)	52s (cold) 29s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level ²	59.0 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%	90.8	88.9	89.0	89.0	92.4	90.6	90.7
	50%	91.0	89.0	89.1	89.1	91.0	90.2	90.2
	75%	91.7	89.4	89.5	89.5	90.2	90.2	91.0
	100%	91.7	89.4	89.5	89.5	88.5	89.5	90.2
Power Factor	25%	0.43	0.38	0.35	0.33	0.49	0.46	0.44
	50%	0.69	0.64	0.61	0.58	0.75	0.72	0.70
	75%	0.80	0.76	0.73	0.71	0.84	0.82	0.81
	100%	0.84	0.82	0.80	0.78	0.86	0.85	0.84
Bearing type	: Drive end : 6311 C3 Non drive end : 6211 C3	Foundation loads						
Sealing	: V'Ring V'Ring	Max. traction : 679 lb						
Lubrication interval	: 20000 h 20000 h	Max. compression : 1082 lb						
Lubricant amount	: 18 g 11 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	24/01/2018				1 / 1			