

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer								
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11437961					
		Catalog # :	01018ET3E215T-W22					
Frame	: 213/5T	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	: 180 lb					
Protection degree	: IP55	Moment of inertia (J)	: 1.51 sq.ft.lb					
Design	: B							
Output HP	10	7.5	7.5	7.5	10	10	10	
Poles	4	4	4	4	4	4	4	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	208-230/460	380	400	415	380	400	415	
Rated current (A)	27.4-24.8/12.4	11.2	11.0	10.9	15.0	14.2	13.8	
L. R. Amperes (A)	176-159/79.4	75.0	78.1	81.7	76.5	79.5	82.8	
LRC (A)	6.4x(Code H)	6.7x(Code H)	7.1x(Code J)	7.5x(Code J)	5.1x(Code F)	5.6x(Code F)	6.0x(Code G)	
No load current (A)	5.65-11.3/5.65	5.60	6.00	6.35	5.60	6.00	6.35	
Rated speed [RPM]	1765	1465	1470	1470	1450	1455	1460	
Slip [%]	1.94	2.33	2.00	2.00	3.33	3.00	2.67	
Rated torque	29.4	26.5	26.4	26.4	35.7	35.6	35.5	
Locked rotor torque [%]	200	200	240	260	150	180	190	
Breakdown torque [%]	295	300	340	360	220	250	270	
Service factor	1.25	1.15	1.15	1.15	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time	30s (cold) 17s (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 ²	58.0 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	90.0	88.8	88.0	91.6	90.7	90.1
	50%	91.0	90.0	89.2	88.7	90.3	90.3	90.3
	75%	91.7	90.0	89.9	89.8	90.2	90.2	90.2
	100%	91.7	89.8	90.1	90.3	88.5	89.5	90.2
Power Factor	25%	0.40	0.37	0.34	0.32	0.46	0.43	0.40
	50%	0.66	0.62	0.58	0.55	0.73	0.69	0.66
	75%	0.77	0.76	0.73	0.70	0.82	0.80	0.78
	100%	0.83	0.83	0.80	0.78	0.86	0.85	0.84
Bearing type	: Drive end : 6308 ZZ Non drive end : 6207 ZZ	Foundation loads						
Sealing	: V'Ring	V'Ring	Max. traction : 458 lb					
Lubrication interval	: -	-	Max. compression : 638 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	30/08/2017				1 / 1			