

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line		: W22 NEMA Premium Efficiency Three-Phase			Product code :		11166657	
					Catalog # :		07518ET3E365T-W22	
Frame : 364/5T				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 : 936 lb				
Protection degree : IP55				Moment of inertia (J) : 23.3 sq.ft.lb				
Design : B								
Output [HP]	75	60	60	60	75	75	75	
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]	186-168/84.1	86.4	82.9	80.7	103	97.0	94.2	
L. R. Amperes [A]	1190-1076/538	605	622	646	525	543	575	
LRC [A]	6.4x(Code G)	7.0x(Code H)	7.5x(Code J)	8.0x(Code J)	5.1x(Code E)	5.6x(Code F)	6.1x(Code F)	
No load current [A]	51.7-60.0/30.0	29.5	31.5	33.4	29.5	31.5	33.4	
Rated speed [RPM]	1775	1475	1480	1480	1465	1470	1475	
Slip [%]	1.39	1.67	1.33	1.33	2.33	2.00	1.67	
Rated torque [ft.lb]	219	211	210	210	265	264	263	
Locked rotor torque [%]	240	240	270	300	190	210	229	
Breakdown torque [%]	260	250	280	310	200	229	250	
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	25s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	
	14s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	
Noise level ²	67.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	
Efficiency (%)	25%							
	50%	94.5	93.7	93.6	93.5	94.5	94.1	
	75%	95.0	94.2	94.2	94.2	94.1	94.5	
	100%	95.4	94.2	94.4	94.6	93.6	94.5	
Power Factor	25%							
	50%	0.73	0.65	0.64	0.62	0.78	0.73	
	75%	0.82	0.78	0.77	0.76	0.85	0.82	
	100%	0.86	0.84	0.83	0.82	0.87	0.86	
Bearing type	Drive end		Non drive end		Foundation loads			
	: 6314 C3		: 6314 C3		Max. traction : 1817 lb			
	: WSeal		: WSeal		Max. compression : 2753 lb			
	: 12000 h		: 12000 h					
	: 27 g		: 27 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			