

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer								
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code :		11438075		
				Catalog # :		05018ET3E326TC-W22		
Frame		: 324/6TC		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		: 615 lb		
Protection degree		: IP55		Moment of inertia (J)		: 9.16 sq.ft.lb		
Design		: B						
Output [HP]	50	40	40	40	50	50	50	
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]	131-118/59.2	58.7	57.1	56.4	71.1	68.4	66.3	
L. R. Amperes [A]	812-734/367	376	400	417	370	397	411	
LRC [A]	6.2x(Code G)	6.4x(Code G)	7.0x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code G)	
No load current [A]	40.5-47.0/23.5	25.7	28.1	30.2	25.7	28.1	30.2	
Rated speed [RPM]	1775	1470	1475	1475	1465	1470	1470	
Slip [%]	1.39	2.00	1.67	1.67	2.33	2.00	2.00	
Rated torque [ft.lb]	146	141	140	140	177	176	176	
Locked rotor torque [%]	229	229	250	260	180	200	210	
Breakdown torque [%]	270	260	300	330	210	240	260	
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	27s (cold) 15s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)	
Noise level ²	66.0 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%	92.5	91.9	90.6	90.7	92.8	92.2	91.8
	50%	93.0	92.5	91.5	91.5	93.0	92.4	92.4
	75%	94.1	93.1	92.8	93.0	93.0	93.0	93.0
	100%	94.5	93.6	93.6	93.6	93.0	93.0	93.5
Power Factor	25%	0.42	0.40	0.36	0.33	0.47	0.43	0.40
	50%	0.66	0.64	0.60	0.57	0.72	0.68	0.65
	75%	0.77	0.77	0.73	0.70	0.81	0.79	0.76
	100%	0.83	0.83	0.81	0.79	0.85	0.84	0.83
Bearing type		Drive end	Non drive end	Foundation loads				
Sealing		V'Ring	V'Ring	Max. traction		: 1475 lb		
Lubrication interval		20000 h	20000 h	Max. compression		: 2090 lb		
Lubricant amount		21 g	13 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			