

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :										
Product line	: W22 NEMA Premium Efficiency Three-Phase			Product code :	12215555					
				Catalog # :	05012ET3E365TC-W22					
Frame	: 364/5TC	Locked rotor time	: 32s (cold) 18s (hot)							
Output	: 50 HP (37 kW)	Temperature rise	: 80 K							
Poles	: 6	Duty cycle	: Cont.(S1)							
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C							
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.							
Rated current	: 115/57.4 A	Protection degree	: IP55							
L. R. Amperes	: 735/367 A	Cooling method	: IC411 - TEFC							
LRC	: 6.4x(Code G)	Mounting	: F-1							
No load current	: 40.0/20.0 A	Rotation ¹	: Both (CW and CCW)							
Rated speed	: 1183 rpm	Noise level ²	: 66.0 dB(A)							
Slip	: 1.42 %	Starting method	: Direct On Line							
Rated torque	: 222 ft.lb	Approx. weight ³	: 931 lb							
Locked rotor torque	: 200 %									
Breakdown torque	: 240 %									
Insulation class	: F									
Service factor	: 1.25									
Moment of inertia (J)	: 32.4 sq.ft.lb									
Design	: B									
Output	50%	75%	100%	Foundation loads						
Efficiency (%)	93.6 92.7	94.1 92.8	94.1 92.9	Max. traction						
	92.7 92.6	93.1 93.1	92.9 92.9	: 1644 lb						
	93.0 93.0	92.4 93.0	91.7 92.4							
	93.0	93.0	92.4	Max. compression						
Power Factor	0.74 0.72	0.83 0.82	0.86 0.85	: 2575 lb						
	0.70 0.66	0.80 0.79	0.84 0.84							
	0.77 0.75	0.84 0.83	0.86 0.86							
	0.74	0.82	0.85							
Losses at normative operating points (speed;torque), in percentage of rated output power										
Losses (%)	P1 (0,9;1,0)	6.2	6.2	6.2	6.2	6.2	6.2			
	P2 (0,5;1,0)	5.2	5.2	5.2	5.2	5.2	5.2			
	P3 (0,25;1,0)	4.6	4.6	4.6	4.6	4.6	4.6			
	P4 (0,9;0,5)	2.8	2.8	2.8	2.8	2.8	2.8			
	P5 (0,5;0,5)	1.9	1.9	1.9	1.9	1.9	1.9			
	P6 (0,5;0,25)	1.2	1.2	1.2	1.2	1.2	1.2			
	P7 (0,25;0,25)	0.8	0.8	0.8	0.8	0.8	0.8			
Drive end				Non drive end						
Bearing type	:	6314 C3		6314 C3						
Sealing	:	WSeal		WSeal						
Lubrication interval	:	17000 h		17000 h						
Lubricant amount	:	27 g		27 g						
Lubricant type	:	Mobil Polyrex EM								
Notes:										
This revision replaces and cancel the previous one, which must be eliminated.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.						
(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.										
Rev.	Changes Summary			Performed	Checked	Date				
Performed by										
Checked by										
Date		29/03/2024								
				Page		Revision				
				1 / 1						