

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12438113					
		Catalog # :	00136ET3H143T-W22					
Frame	: 143/5T	Locked rotor time	: 36s (cold) 20s (hot)					
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K					
Poles	: 2	Duty cycle	: Cont.(S1)					
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C					
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.					
Rated current	: 1.18 A	Protection degree	: IP55					
L. R. Amperes	: 9.64 A	Cooling method	: IC411 - TEFC					
LRC	: 8.2x(Code L)	Mounting	: F-1					
No load current	: 0.616 A	Rotation ¹	: Both (CW and CCW)					
Rated speed	: 3500 rpm	Noise level ²	: 68.0 dB(A)					
Slip	: 2.78 %	Starting method	: Direct On Line					
Rated torque	: 1.50 ft.lb	Approx. weight ³	: 38.2 lb					
Locked rotor torque	: 220 %							
Breakdown torque	: 310 %							
Insulation class	: F							
Service factor	: 1.25							
Moment of inertia (J)	: 0.0332 sq.ft.lb							
Output	50%	75%	100%					
Efficiency (%)	75.0	79.0	80.0					
Power Factor	0.63	0.74	0.80					
Losses at normative operating points (speed;torque), in percentage of rated output power								
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)		
22.8	16.9	16.0	14.5	8.4	6.7	4.4		
Bearing type		Drive end		Non drive end				
Sealing		6205 ZZ		6204 ZZ				
Lubrication interval		V'Ring		V'Ring				
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					Page	Revision		
Checked by								
Date	26/03/2024				1 / 1			