

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code :	11433736			
				Catalog # :	00112ST3HIE145T-W22			
Frame	: 143/5T	Locked rotor time	: 50s (cold) 28s (hot)					
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K					
Poles	: 6	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	: 1.38 A	Protection degree	: IP56					
L. R. Amperes	: 8.58 A	Cooling method	: IC411 - TEFC					
LRC	: 6.2x(Code K)	Mounting	: F-1					
No load current	: 0.880 A	Rotation ¹	: Both (CW and CCW)					
Rated speed	: 1160 rpm	Noise level ²	: 50.0 dB(A)					
Slip	: 3.33 %	Starting method	: Direct On Line					
Rated torque	: 4.53 ft.lb	Approx. weight ³	: 58.9 lb					
Locked rotor torque	: 260 %							
Breakdown torque	: 300 %							
Insulation class	: F							
Service factor	: 1.25							
Moment of inertia (J)	: 0.1595 sq.ft.lb							
Design	: B							
Output	25%	50%	75%	100%	Foundation loads			
Efficiency (%)	76.0	77.0	82.0	82.5				
Power Factor	0.26	0.45	0.57	0.66				
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)		
20.0	16.7	16.9	12.6	9.2	7.6	5.8		
					Drive end			
Bearing type	:	6205 C3						
Sealing	:	Inpro/Seal			Non drive end			
Lubrication interval	:	20000 h			6204 C3			
Lubricant amount	:	4 g			Inpro/Seal			
Lubricant type	:	Mobil Polyrex EM			20000 h			
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					Page			
Checked by								
Date	29/03/2024							