

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :							
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :	13205894		
				Catalog # :	00109ST3QIE182T-W22		
Frame	: 182/4T	Locked rotor time	: 39s (cold) 22s (hot)				
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K				
Poles	: 8	Duty cycle	: Cont.(S1)				
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C				
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.				
Rated current	: 2.30 A	Protection degree	: IP56				
L. R. Amperes	: 13.8 A	Cooling method	: IC411 - TEFC				
LRC	: 6.0x(Code M)	Mounting	: F-1				
No load current	: 1.70 A	Rotation ¹	: Both (CW and CCW)				
Rated speed	: 875 rpm	Noise level ²	: 50.0 dB(A)				
Slip	: 2.78 %	Starting method	: Direct On Line				
Rated torque	: 6.00 ft.lb	Approx. weight ³	: 95.0 lb				
Locked rotor torque	: 300 %						
Breakdown torque	: 350 %						
Insulation class	: F						
Service factor	: 1.25						
Moment of inertia (J)	: 0.3991 sq.ft.lb						
Design	: B						
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	72.4	74.4	74.0	74.7			
	71.5	68.4	72.0	70.0			
Power Factor	0.18	0.21	0.32	0.38	Max. traction : 97 lb		
	0.19	0.18	0.35	0.33	Max. compression : 192 lb		
Losses at normative operating points (speed;torque), in percentage of rated output power							
Losses (%)	P1 (0,9;1,0)	26.3	26.3	26.3	26.3		
	P2 (0,5;1,0)	21.5	21.5	21.5	21.5		
	P3 (0,25;1,0)	19.6	19.6	19.6	19.6		
	P4 (0,9;0,5)	19.2	19.2	19.2	19.2		
	P5 (0,5;0,5)	14.6	14.6	14.6	14.6		
	P6 (0,5;0,25)	13.1	13.1	13.1	13.1		
	P7 (0,25;0,25)	10.6	10.6	10.6	10.6		
			Drive end	Non drive end			
Bearing type	: 6207 C3		6206 C3				
Sealing	: Inpro/Seal		Inpro/Seal				
Lubrication interval	: 20000 h		20000 h				
Lubricant amount	: 7 g		5 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		
Performed by					Page		
Checked by					Revision		
Date	29/03/2024				1 / 1		