

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase							
Product code	: 11431671							
Catalog #	: 06036ST3QIE364TS-W22							
Frame : 364/5TS Output : 60 HP (45 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 460 V Rated current : 67.0 A L. R. Amperes : 429 A LRC : 6.4x(Code G) No load current : 15.0 A Rated speed : 3550 rpm Slip : 1.39 % Rated torque : 88.8 ft.lb Locked rotor torque : 190 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 10.6 sq.ft.lb Design : B	Locked rotor time : 25s (cold) 14s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP56 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 79.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 859 lb							
Output	50% 75% 100%							
Efficiency (%)	91.7 92.1 93.0 92.8 93.6 92.8 91.7 91.6 92.8 92.9 93.1 93.1 92.4 92.4 93.0 93.0 92.4 93.0 92.4 93.0 93.0							
Power Factor	0.81 0.81 0.88 0.88 0.90 0.91 0.79 0.76 0.87 0.85 0.90 0.89 0.85 0.83 0.90 0.89 0.91 0.90 0.81 0.88 0.90							
Foundation loads	Max. traction : 449 lb Max. compression : 1308 lb							
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	7.4	8.4	8.0	8.0	8.9	8.2	8.2
	P2 (0,5;1,0)	5.8	6.8	6.4	6.4	7.3	6.5	6.5
	P3 (0,25;1,0)	5.1	6.1	5.7	5.7	6.5	5.8	5.8
	P4 (0,9;0,5)	3.7	4.1	4.0	4.0	4.4	4.0	4.0
	P5 (0,5;0,5)	2.3	2.6	2.5	2.5	2.8	2.5	2.5
	P6 (0,5;0,25)	1.4	1.7	1.6	1.6	1.8	1.6	1.6
	P7 (0,25;0,25)	0.9	1.1	1.0	1.0	1.2	1.0	1.0
Bearing type	: 6314 C3	Drive end	6314 C3	Non drive end				
Sealing	: Inpro/Seal		Inpro/Seal					
Lubrication interval	: 4000 h		4000 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. (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	25/03/2024					1 / 1		