

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase							
Product code	: 12373843							
Catalog #	: 00336ST3QIE182TC-W22							
Frame : 182/4TC Output : 3 HP (2.2 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 460 V Rated current : 3.63 A L. R. Amperes : 31.2 A LRC : 8.6x(Code K) No load current : 1.30 A Rated speed : 3510 rpm Slip : 2.50 % Rated torque : 4.49 ft.lb Locked rotor torque : 250 % Breakdown torque : 380 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1889 sq.ft.lb Design : B	Locked rotor time : 73s (cold) 41s (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 : 66.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 98.7 lb							
Output	25% 50% 75% 100%							
Efficiency (%)	82.0 79.5 82.5 81.0 86.5 84.5 86.5 85.8 79.1 77.8 80.6 79.7 84.5 84.1 85.8 85.9 84.4 84.4 84.0 84.0 86.5 86.5 85.5 85.5 84.4 84.0 86.5 85.5							
Power Factor	0.50 0.44 0.75 0.68 0.84 0.79 0.88 0.86 0.41 0.39 0.65 0.63 0.77 0.75 0.84 0.82 0.56 0.52 0.80 0.77 0.87 0.86 0.90 0.89 0.50 0.75 0.84 0.88							
Foundation loads	Max. traction : 72 lb Max. compression : 171 lb							
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	14.1	14.1	14.1	14.1	14.1	14.1	14.1
	P2 (0,5;1,0)	9.5	9.5	9.5	9.5	9.5	9.5	9.5
	P3 (0,25;1,0)	8.5	8.5	8.5	8.5	8.5	8.5	8.5
	P4 (0,9;0,5)	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	P5 (0,5;0,5)	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	P6 (0,5;0,25)	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	P7 (0,25;0,25)	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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. (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					