

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code : 11707975 Catalog # : 10018ST3QIERB405T-W2				
Frame : 404/5T Output : 100 HP (75 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 460 V Rated current : 116 A L. R. Amperes : 719 A LRC : 6.2x(Code G) No load current : 32.0 A Rated speed : 1775 rpm Slip : 1.39 % Rated torque : 296 ft.lb Locked rotor torque : 240 % Breakdown torque : 220 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 29.9 sq.ft.lb Design : B	Locked rotor time : 23s (cold) 13s (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 : 68.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 1240 lb				
Output 25% 50% 75% 100% Efficiency (%) 94.5 94.8 95.0 94.5 95.0 94.1 95.4 93.6 94.7 94.4 94.5 94.5 94.5 94.5 94.1 94.5 Power Factor 0.54 0.60 0.77 0.82 0.84 0.86 0.85 0.86 0.57 0.55 0.79 0.77 0.85 0.84 0.85 0.84	Foundation loads Max. traction : 1624 lb Max. compression : 2864 lb				
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	4.6	4.6	4.6	4.6
	P2 (0,5;1,0)	3.8	3.8	3.8	3.8
	P3 (0,25;1,0)	3.7	3.7	3.7	3.7
	P4 (0,9;0,5)	2.0	2.0	2.0	2.0
	P5 (0,5;0,5)	1.4	1.4	1.4	1.4
	P6 (0,5;0,25)	0.8	0.8	0.8	0.8
	P7 (0,25;0,25)	0.5	0.5	0.5	0.5
Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :	Drive end NU-316 C3 Inpro/Seal 7000 h 34 g Mobil Polyrex EM	Non drive end 6314 C3 Inpro/Seal 12000 h 27 g			
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		