

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code : 12456521		Catalog # : 20009ST3QIE449T-W22		
Frame : L447/9T Output : 200 HP (150 kW) Poles : 8 Frequency : 60 Hz Rated voltage : 460 V Rated current : 242 A L. R. Amperes : 1476 A LRC : 6.1x(Code G) No load current : 90.0 A Rated speed : 891 rpm Slip : 1.00 % Rated torque : 1180 ft.lb Locked rotor torque : 190 % Breakdown torque : 210 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 255 sq.ft.lb Design : B			Locked rotor time : 45s (cold) 25s (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 : 64.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 3460 lb			
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	94.5	94.6	95.0	95.0	Max. traction	: 4869 lb
Power Factor	0.45	0.70	0.79	0.82	Max. compression	: 8329 lb
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)
6.2	5.0	4.6	3.6	2.5	2.0	1.3
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6322 C3		6319 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	14000 h		17000 h		
Lubricant amount	:	60 g		45 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	