

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W22 NEMA Premium Efficiency Three-Phase	Product code : 11431291 Catalog # : 20018ET3G447T-W22				
Frame : 445/7T Output : 200 HP (150 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 460 V Rated current : 230 A L. R. Amperes : 1564 A LRC : 6.8x(Code G) No load current : 70.0 A Rated speed : 1785 rpm Slip : 0.83 % Rated torque : 588 ft.lb Locked rotor torque : 229 % Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 76.2 sq.ft.lb Design : B	Locked rotor time : 28s (cold) 16s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 73.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 2293 lb				
Output      25%      50%      75%      100% Efficiency (%)    95.7 94.3 95.8 94.5 96.2 95.0 96.2 95.0 94.9 94.9 95.0 95.0 95.4 95.4 95.4 95.4 Power Factor    0.50 0.56 0.73 0.78 0.82 0.85 0.85 0.86 0.53 0.50 0.76 0.73 0.84 0.82 0.86 0.85	Foundation loads Max. traction : 3393 lb Max. compression : 5687 lb				
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	4.0	4.0	4.0	4.0
	P2 (0,5;1,0)	3.2	3.2	3.2	3.2
	P3 (0,25;1,0)	2.9	2.9	2.9	2.9
	P4 (0,9;0,5)	2.0	2.0	2.0	2.0
	P5 (0,5;0,5)	1.3	1.3	1.3	1.3
	P6 (0,5;0,25)	0.9	0.9	0.9	0.9
	P7 (0,25;0,25)	0.5	0.5	0.5	0.5
Bearing type :	Drive end	6319 C3	Non drive end	6316 C3	
Sealing :		WSeal		WSeal	
Lubrication interval :		8000 h		10000 h	
Lubricant amount :		45 g		34 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.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
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