

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 Tru-Metric IE3 Three-Phase		Product code : 16993675				
		Catalog # : 01509ET3E200LF3-W22				
Frame : 200L Output : 20 HP (15 kW) Poles : 8 Frequency : 50 Hz Rated voltage : 380 V Rated current : 33.0 A L. R. Amperes : 162 A LRC : 4.9 No load current : 14.7 A Rated speed : 730 rpm Slip : 2.67 % Rated torque : 144 ft.lb Locked rotor torque : 170 % Breakdown torque : 190 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 10.8 sq.ft.lb Design : N		Locked rotor time : 61s (cold) 34s (hot) Temperature rise : 80 K Duty cycle : S1 Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : B3T Rotation ¹ : Both (CW and CCW) Noise level ² : 56.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 518 lb				
Output	25%	50%	75%	100%		
Efficiency (%)	90.3	88.5	90.5	89.4		
	89.3	89.5	91.0	91.0		
Power Factor	0.37	0.31	0.60	0.53		
	0.32	0.55	0.67	0.74		
Foundation loads						
Max. traction : 1009 lb						
Max. compression : 1527 lb						
Losses at normative operating points (speed;torque), in percentage of rated output power						
Losses (%)	P1 (0,9;1,0)	9.5		9.0	9.5	
	P2 (0,5;1,0)	7.8		7.3	7.8	
	P3 (0,25;1,0)	7.3		6.8	7.3	
	P4 (0,9;0,5)	5.3		5.0	5.3	
	P5 (0,5;0,5)	3.7		3.5	3.7	
	P6 (0,5;0,25)	2.8		2.7	2.8	
	P7 (0,25;0,25)	2.0		1.9	2.0	
Bearing type :		Drive end 6312 C3		Non drive end 6212 C3		
Sealing :		V'Ring		V'Ring		
Lubrication interval :		20000 h		20000 h		
Lubricant amount :		21 g		13 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	26/03/2024				1 / 1	