

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W22 Tru-Metric IE3 Three-Phase		Product code : 13034287			
		Catalog # : 11009ET3Y315L-W22			
Frame : 315L Output : 150 HP (110 kW) Poles : 8 Frequency : 50 Hz Rated voltage : 380 V Rated current : 221 A L. R. Amperes : 1216 A LRC : 5.5 No load current : 80.0 A Rated speed : 740 rpm Slip : 1.33 % Rated torque : 1060 ft.lb Locked rotor torque : 160 % Breakdown torque : 200 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 298 sq.ft.lb Design : N		Locked rotor time : 63s (cold) 35s (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 : B3L(E) Rotation ¹ : Both (CW and CCW) Noise level ² : 68.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 2954 lb			
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.0 94.0	94.5 94.5	94.5 94.5	Max. traction : 3602 lb	
	94.0	94.5	94.5		
Power Factor	0.68 0.61	0.77 0.72	0.80 0.78	Max. compression : 6556 lb	
	0.60	0.72	0.78		
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	5.7	5.7	5.7	
	P2 (0,5;1,0)	4.3	4.3	4.3	
	P3 (0,25;1,0)	3.6	3.6	3.6	
	P4 (0,9;0,5)	3.3	3.3	3.3	
	P5 (0,5;0,5)	2.1	2.1	2.1	
	P6 (0,5;0,25)	1.6	1.6	1.6	
	P7 (0,25;0,25)	1.0	1.0	1.0	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6319 C3	6316 C3		
Sealing	:	WSeal	WSeal		
Lubrication interval	:	17000 h	20000 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. (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
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Checked by				Page	Revision
Date	26/03/2024			1 / 1	