## **DATA SHEET**

Checked by

Date

26/03/2024

## Three Phase Induction Motor - Squirrel Cage



			9			
Customer	:					
Product line	: Multimounting IE3 Three-Phase		Product code : Catalog # :		13983072 00156ET3EAL90S-W22	
Frame Output Poles Frequency Rated voltage Rated current	: 90S/L : 2 HP (1.5 kW) : 2 : 50 Hz : 380 V : 3.22 A		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree		: 27s (cold) 15s (hot) : 80 K : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55	
L. R. Amperes LRC No load current Rated speed Slip	: 24.5 A : 7.6 : 1.43 A : 2870 rpm : 4.33 %		Cooling method Mounting Rotation <sup>1</sup> Noise level <sup>2</sup> Starting method		: IC411 - TEFC : B3L(E) : Both (CW and CCW) : 62.0 dB(A) : Direct On Line	
Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia Design	: 250 % : F : 1.25		Approx	. weight³	: 37.6 lb	
Output Efficiency (%)	25% 50% 75% 100% Foundation loads 81.0 80.5 82.0 81.5 83.5 83.5 84.2 84.2 Max. traction			: 75 lb		
Power Factor	79.4 81.0 84.0 85.5 0.42 0.33 0.67 0.57 0.78 0.70 0.84 0.78 Max. 0.36 0.61 0.73 0.80			pression	: 112 lb	
Losses at normativ	ve operating points (sp					
Losses (%)	P1 (0,9;1,0) P2 (0,5;1,0)	17.1 13.1		7.1 3.1	15.5 11.9	
	P3 (0,25;1,0) P4 (0,9;0,5)	13.4 10.4		3.4 0.4	12.1 9.4	
	P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25)	6.4 5.0 3.4	5	5.0	5.8 4.5 3.1	
Bearing type Sealing	27 (0,25,0,25) 3.4 <u>Drive end</u> : 6205 ZZ : V'Ring		3.4 Non drive end 6204 ZZ V'Ring			
Lubrication interval Lubricant amount Lubricant type		-	il Polyrex EM			
Notes:						
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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.			
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Revision