DATA SHEET

Checked by

Three Phase Induction Motor - Squirrel Cage



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Customer	:					
Product line	: Multimounting IE3 Three-Phase		Product code : Catalog # :		13983021 .7509ET3EAL100L-W22	
Frame Output Poles	: 100L : 1 HP (0.75 kW) : 8		Locked rotor time Temperature rise Duty cycle Ambient temperature		: 54s (cold) 30s (hot) : 80 K : S1	
Frequency Rated voltage Rated current	: 50 Hz : 380 V : 2.30 A		Altitude Protection degree		: -20°C to +40°C : 1000 m.a.s.l. : IP55	
L. R. Amperes LRC	: 10.6 A : 4.6		Cooling method Mounting		: IC411 - TEFC : B3L(E)	
No load current Rated speed Slip	: 1.50 A : 710 rpm : 5.33 %		Rotation ¹ Noise level ² Starting method		: Both (CW and CCW) : 50.0 dB(A) : Direct On Line	
Rated torque	ated torque : 7.40 ft.lb cked rotor torque : 160 %		Approx. weight ³		: 57.9 lb	Line
Insulation class Service factor	: F : 1.25					
Moment of inertia Design	(J) : 0.3014 : N	sq.ft.lb				
Output Efficiency (%)	25% 50% 74.3 70.1 73.9 71.1	75% 100% 76.1.74.8.75.1.75.5	Foundation loads Max. traction		: 95 lb	
Power Factor	68.4 70.0 0.25 0.21 0.44 0.38	74.0 75.5 0.57 0.50 0.66 0.59	Max. compression		: 153 lb	
Losses at normativ	0.21 0.38 ve operating points (sp	0.50 0.59	ntage of rated or	utnut nower		
Losses (%)	P1 (0,9;1,0)	31.5	30.9	atput power	30.9	
	P2 (0,5;1,0) P3 (0,25;1,0)	26.8 26.1	26.2 25.5		26.2 25.5	
	P4 (0,9;0,5)	20.1	20.4		20.4	
	P5 (0,5;0,5)	16.3	16.0		16.0	
	P6 (0,5;0,25)	14.2	13.9		13.9	
	P7 (0,25;0,25)	11.6	11.3		11.3	
	P7 (0,25,0,25)	1	1			
		Drive end	<u>N</u>	Non drive end		
Bearing type	:	6206 ZZ	6205 ZZ			
Sealing	:	: V'Ring		V'Ring		
Lubrication interval	al :	-		-		
Lubricant amount	:	-		-		
Lubricant type	:	Mol	bil 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.			
Rev.	Chang	ges Summary	Pe	erformed	Checked	Date
Performed by				•		

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