DATA SHEET

Checked by

Three Phase Induction Motor - Squirrel Cage



Timee Timee	o madonom mo	to: Oquii.o.	Gage			
Customer	:					
Product line	: W22 Close Coupled Pump JM High Efficiency Three-Phase		Product code :		11524177	
Frame	: 182/4JI	М	Locked rotor time		: 23e (cold)	13c (hot)
Output	: 5 HP (3.7 kW)		Temperature rise		: 23s (cold) 13s (hot) : 80 K	
Poles	. 5 HP (3.7 KW) : 4		Duty cycle		: Cont.(S1)	
Frequency	. 4 : 60 Hz		Ambient temperat	ura	: -20°C to +	
Rated voltage	: 230/460 V		Altitude	uie	: 1000 m.a.	
Rated current	: 13.6/6.80 A		Protection degree		: IP55	3.1.
L. R. Amperes	: 95.2/47.6 A		Cooling method		: IC411 - TE	FC
LRC	: 7.0x(Code J)		Mounting		: F-1	
No load current	: 7.50/(Gode 3)		Rotation ¹		: Both (CW and CCW)	
Rated speed	: 1750 rpm		Noise level ²		: 56.0 dB(A)	
Slip	: 2.78 %		Starting method		: Direct On Line	
Rated torque			Approx. weight ³		: 96.7 lb	LIIIC
Locked rotor torque		iD	Approx. weight		. 30.7 10	
Breakdown torque						
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia		sa ft lh				
Design	: B	Sq.it.ib				
Output	25% 50%	75% 100%	Foundation loads			
Efficiency (%)	86.2 85.1 86.5 85.5 8	87.5 86.5 87.5 86.5	Max. traction	:	242 lb	
	85.2 86.2 85.5 86.5 8					
Power Factor	0.34 0.42 0.60 0.70 (Max. compression	:	: 339 lb	
	0.39 0.36 0.67 0.63 (0.78 0.76 0.84 0.82				
osses at normativ	ve operating points (sp	eed:torque), in perce	ntage of rated output	power		
Losses (%)	P1 (0,9;1,0)	13.8	15.1	15.1		15.1
	P2 (0,5;1,0)	12.6	13.8	13.8		13.8
	P3 (0,25;1,0)	12.9	14.1	14.1		14.1
	P4 (0,9;0,5)	7.2	7.9	7.9		7.9
	P5 (0,5;0,5)	5.6	6.1	6.1		6.1
	P6 (0,5;0,25)	4.1	4.5	4.5		4.5
	P7 (0,25;0,25)	3.3	3.6	3.6		3.6
	1 7 (0,23,0,23)			l .		3.0
Decrine tone		Drive end		ive end		
Bearing type	: 6307 ZZ		6206 ZZ V'Ring			
Sealing Lubrication interval		V'Ring	V	Ring		
Lubrication intervi		-		-		
Lubricant type	•	- Mol	bil Polyrex EM	-		
	•	IVIO				
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.			
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