DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Customer		:										
		14/00	JEO TI	. .			.		4000			
Product line	IE3 Three-	E3 Three-Phase			Product code :			12862355				
Frame			: 90S			Cooling method			: IC41	: IC411 - TEFC		
Insulation class			: F			Mountin			: B3T	: B3T		
Duty cycle	Duty cycle			: S1			Rotation ¹			: Both (CW and CCW)		
Ambient temper	ature		: -20°C to +40°C			Starting method			: Dire	: Direct On Line		
Altitude			: 1000 m.a.s.l.			Approx. weight ³			: 19.7	: 19.7 kg		
Protection degre	ee		: IP55			Moment of inertia (J)			: 0.00	: 0.0020 kgm²		
Design			: N									
Output [kW]				1.5	1.5			1.5			1.5	
	Poles			2		2			2		2	
	Frequency [Hz]			50		50			50		60	
Rated voltage [V]			220/380		230/400				240/415		460	
Rated current [A]			5.56/3.22		5.51/3.17		5.50	5.50/3.18		2.75		
L. R. Amperes [A]			36.2/20.9		38.6/22.2		41.2/23.9			23.1		
LRC [A]			6.5		7.0		7.5			8.4		
No load current [A	4]		2.42/1.40		2.78/1.60			3.11	3.11/1.80		1.50	
Rated speed [RPI	M1		2870		2885		28	2895		3505		
Slip [%]	-		4.33		3.83			3	3.50		2.64	
Rated torque [Nm	n]		4.99		4.97			4.95		4.09		
Locked rotor torqu			220			250		2	270		300	
Breakdown torque			270			300			330		409	
Service factor	- [,-]		1.00			1.00			1.00		1.00	
Temperature rise			80 K			80 K			80 K		80 K	
Locked rotor time			18s (cold) 10s (hot)		189 (18s (cold) 10s (hot)			18s (cold) 10s (hot)		I	
Noise level ²			62.0 dB(A)			62.0 dB(A)		62.0 dB(A)		68.0 dB(A)		
140100 10401	25	5%	02.0	(UD () ()		2.0 02(7.1)		02.0				
)%	9	32.0		82.0		81.5			81.0	
Efficiency (%)		5%		33.5				83.5		84.0		
		0%	84.2		83.5 84.2			84.2		85.5		
		5%	04.2		04.2			J <u> </u>		00.0		
)%	(0.67		0.62		0.57		0.61		
Power Factor		5%		0.78		0.74		0.70		0.73		
		0%	0.78		0.81			0.78		0.80		
Lossos at norma					n norcoi		atod out					
LUSSES at HUITIA	live ope		points (speed;torque), in pere			18.7		18.7		16.9		
		P1 (0,9;1,0) P2 (0,5;1,0)		17.4		17.4		17.4		15.7		
					16.2			16.2		14.6		
1 00000 (0/)			25;1,0) 16.2			8.8		8.8				
Losses (%)		P4 (0,9;0,5)		8.8						_	7.9	
		P5 (0,5;0,5)		6.2		6.2		6.2			5.6	
			5;0,25) 4.1			4.1 2.9			4.1		3.7	
	1	7 (0,2	5;0,25)	2.9					2.9		2.7	
			Drive 6		ive end	Foundat	ion load	ds				
Bearing type	Bearing type				04 ZZ	Max. traction		: 382 N				
Sealing			: V'Ring V'Ring			Max. compression : 575 N						
Lubrication inter			: -		-							
Lubricant amount			:		-							
Lubricant type			: M	obil Polyrex E	ΞM							
This revision repl		nd can	cel the pre	vious one, wh	hich			-			ith sinusoidal	
must be eliminated. power supply, subject to the tolerances stipulated in IEC (1) Looking the motor from the shaft end. 60034-1.												
(2) Measured at 1m and with tolerar												
(3) Approximate												
manufacturing pr		,	- 3									
(4) At 100% of fu												
										- .		
Rev.			Chang	jes Summary	· 		Performed		Checke	ea	Date	
Performed by						·						

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