DATA SHEET

Checked by

Date

29/08/2023

Three Phase Induction Motor - Squirrel Cage



Customer :

Customer	:									
Product line	E3 Three-Phase			Product code :			12862	12862482		
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degree Design	: 90S : F : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55 : N			Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)			: B3T : Both : Dire : 19.9	: IC411 - TEFC : B3T : Both (CW and CCW) : Direct On Line : 19.9 kg : 0.0055 kgm²		
Output [kW]			1.1		1.1		1	.1		1.1
Poles			4	4				4		4
Frequency [Hz]		50		50				60		60
Rated voltage [V]		220/380		230/400			240/415			460
Rated current [A]		4.18/2.42		4.16/2.39			4.08/2.36			2.07
L. R. Amperes [A]		26.3/15.2		27.4/15.8			29.0/16.8			16.4
LRC [A]		6.3		6.6			7.1			7.9
No load current [A		2.07/1.20		2.43/1.40			2.59/1.50			1.30
Rated speed [RPI	M]	1435		1445			1450			1755
Slip [%]			4.33		3.67		3.33		2.50	
Rated torque [Nm]	7.32		7.27			7.25		5.99	
Locked rotor torqu	ıe [%]	:	210		229		2	50		270
	Breakdown torque [%]		240		270		30	300		340
Service factor		1.00			1.00		1.	1.00		1.00
Temperature rise		80 K			80 K		80 K			80 K
Locked rotor time		30s (cold) 17s (hot)		28s (d	28s (cold) 16s (hot)		27s (cold) 15s (hot)		28s	(cold) 16s (hot)
Noise level ²	Noise level ²		49.0 dB(A)		9.0 dB(A)		49.0 dB(A)			51.0 dB(A)
	25%				, ,					, ,
Efficiency (%)	50%	84.0		83.0			82.0			80.0
	75%	84.1		84.1			84.1			84.0
	100%	84.1			84.1		84.1			86.5
Power Factor	25%									
	50%	0.64		0.59			0.55			0.57
	75%	0.76		0.72			0.69			0.70
	100%	0.82		0.79			0.77			0.77
Losses at normat	tive operation	nointe (en	eed:torque) i	n nercei	ntage of re	ated ou	tnut nower			
LOGGES ALTIOITIA			19.1	ii percel	19.1		<u> </u>		1 15.8	
		P1 (0,9;1,0) P2 (0,5;1,0)			18.5		18.5		15.8	
		P3 (0,5;1,0)			17.2			17.2		
Losses (%)		,9;0,5)	17.2 8.8		8.8			8.8		
LU33G3 (/0)		,9,0,5) ,5;0,5)	6.9		6.9			6.9		
		,5,0,5) 5;0,25)	4.7		4.7		4.7		5.7 3.9	
		25;0,25)	3.7			+. <i>1</i> 3.7			_	3.9
	1 / (0,2			ii (a. a. a. a. a.	-			J.1		3.0
Pooring tons		<u>Drive 6</u>		rive end	Foundat		us	_		
Bearing type					04 ZZ Max. tractio		: 484 N			
Sealing	احد	: V'R	ıng V'	Ring	Max. cor	mpress	ion	: 679 I	N	
Lubrication inter		-		-						
Lubricant amour	IL		lahil Dalimer 5	- - N A						
Lubricant type		: M	lobil Polyrex E	=IVI						
This revision repl must be eliminate (1) Looking the m (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu	ed. notor from the 1m and with t weight subject ocess.	shaft end.	f +3dB(A).	hich		upply, s				th sinusoidal lated in IEC
Rev.	Rev. Changes S		ges Summary	ummary		Performed		Check	ed	Date
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Revision

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