DATA SHEET

Checked by

Three Phase Induction Motor - Squirrel Cage



Customer	:									
Product line	: W22	IE3 Three-	Phase			Product	code :	13030)432	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 160M : F : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55 : N		Cooling method Mounting Rotation¹ Starting method Approx. weight³ Moment of inertia (J)		: B5T : Both : Dire : 130	: IC411 - TEFC : B5T : Both (CW and CCW) : Direct On Line : 130 kg : 0.0482 kgm²			
Output [kW]			11		11		1	1		11
Poles			2		2			2		2
Frequency [Hz]			50		50			0		60
Rated voltage [V]			0/380		230/400			/415		460
Rated current [A]			2/21.6		36.5/21.0			/20.7		19.0
L. R. Amperes [A]		_	4/170		310/178			/189		184
LRC [A]			7.9		8.5		9			9.7
No load current [A	-		7/9.10	1	17.6/10.1		19.0/11.0			9.50
Rated speed [RPN	Л]	2955			2960		2960			3565
Slip [%]		1.50			1.33		1.33			0.97
Rated torque [Nm]			35.6		35.5		35.5			29.5
Locked rotor torqu		270			310			330		380
Breakdown torque	: [%]	350			380			420		470
Service factor			1.00		1.00			1.00		1.00
Temperature rise		80 K			80 K			80 K		80 K
Locked rotor time		16s (cold) 9s (hot)			cold) 8s (ł	not)		l) 8s (hot)		cold) 10s (hot)
Noise level ²		67.0	dB(A)	6	7.0 dB(A)		67.0	dB(A)	7	2.0 dB(A)
	25%									
Efficiency (%)	50%	90.0			89.0			3.0		89.0
Liliciency (70)	75%	(91.2		91.0		90	0.0		91.0
	100%	(91.2		91.2		91	1.2		91.0
	25%									
Power Factor	50%		0.69		0.65			60		0.62
i owei i actoi	75%		0.80		0.76		0.	73		0.74
100%		0.85			0.83		0.81			0.80
Losses at normat	ive operating	points (sp	eed:torque) i	n nercer	ntage of ra	ated outr	out nower			
		,9;1,0)	9.3	po. oo.	•	9.3		9.3		9.5
	•	,5;1,0)	7.7			7.7		7.7		7.9
		25;1,0)	7.1			7.1		7.1		7.3
Losses (%)		,9;0,5) 5.1				5.1	5.1			5.2
200000 (70)		,5;0,5)	-		3.4		3.4			3.5
		5;0,25)	2.4		2.4		2.4			2.5
		25;0,25)			1.7			1.7		1.7
	1 7 (0,2	Drive		ive end	Foundat					
Bearing type				ZZ C3			5	4544		
		: 6309 ZZ C3 6209 ZZ C3 : Oil Seal Lip Seal		Max. traction Max. compression			: 1544 N : 2819 N			
Sealing Lubrication interv	/al	. Oii 8	o c ai LID	oeal	iviax. cor	npression	ווע	. 2019	IN	
Lubricant amoun				-						
Lubricant type	ıı		lobil Polyrex E	- =N/I						
Lubricant type		. 10	lobii i diyicx L	_1V1						
This revision replanust be eliminated (1) Looking the model (2) Measured at 1 (3) Approximate with manufacturing profession (4) At 100% of full must be supported to the control of the co	ed. lotor from the Im and with t weight subject ocess.	shaft end	f +3dB(A).	nich		upply, su		based on te ne tolerance		
Rev.		Chanç	ges Summary		<u> </u>	Perf	ormed	Checke	ed	Date
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Date	29/08/2023		1/3				
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		Subject to change without notice					

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Revision

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Customer	

Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
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Checked by		_		Page	Revision
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