DATA SHEET

Checked by

Date

29/08/2023

Three Phase Induction Motor - Squirrel Cage



Customer :

Customer	:									
Product line : W22 IE3 Three-Phase				Product code :			12881	12881494		
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 Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: B5T : Both : Dire : 146	: IC411 - TEFC : B5T : Both (CW and CCW) : Direct On Line : 146 kg : 0.1191 kgm²			
Output [kW]			11		11			11		11
Poles			4		4			4		4
Frequency [Hz]			50		50			50		60
Rated voltage [V]		22	0/380		230/400		240)/415		460
Rated current [A]		37.1/21.5		3	36.3/20.9		35.8/20.7			18.4
L. R. Amperes [A]			0/151		291/167			1/176		156
RC [A]			7.0		8.0			3.5		8.5
No load current [A]		15.	5/9.00	-	16.5/9.50		18.2	2/10.5		9.20
Rated speed [RPN		1475			1479			480		1780
Slip [%]		1.67			1.40		1	.33		1.11
Rated torque [Nm]	1	71.3			71.1			1.0		59.0
Locked rotor torqu		240			270		300			360
Breakdown torque [%]		270			300		3	320		360
Service factor		1.00			1.00		1	1.00		1.00
Temperature rise		80 K			80 K		8			80 K
Locked rotor time		25s (cold) 14s (hot)		23s (c	cold) 13s (hot)	21s (cold	cold) 12s (hot)		cold) 16s (hot
Noise level ²		61.0 dB(A)			1.0 dB(A)	,		dB(A) 64		64.0 dB(A)
	25%		. ,		()			()		()
Efficiency (0/)	50%	91.4			90.7		90.6			90.5
Efficiency (%)	75%	91.4			91.6		91.4			92.2
	100%	91.4			91.4		9	1.4		92.4
	25%									
Dawer Footer	50%	(0.69		0.65		0	.61		0.62
Power Factor	75%	(0.80		0.77		0	.74		0.75
100%		0.85			0.83		0.81			0.81
Losses at normat	ive operating	points (sp	eed:torque). i	n percei	ntage of ra	ated ou	tout power	•		
		,9;1,0)	9.2	po. cc.		9.2		9.2		8.0
	•	,5;1,0)	8.0			3.0		8.0		7.0
		25;1,0)	7.7			7.7	7.7			6.7
Losses (%)		0,9;0,5) 4.4				1.4	4.4			3.9
(/0)		,5;0,5) 3.2				3.2	3.2		-	2.8
		5;0,25) 2.2			2.2		2.2		-	1.9
		25;0,25) 1.6			1.6			1.6		1.4
	1 7 (0,2	Drive (L	ive end	Foundati		de	1.0		
Bearing type		: 6309 Z		ZZ C3			us	0004		
		: Oil Seal Lip Seal			Max. traction Max. compression			: 2631 N : 4063 N		
Sealing	rol.	. Oli 8	веаі сір	Seai	IVIAX. COI	npress	IOH	. 4063	IN	
Lubrication interv				-						
Lubricant amoun Lubricant type	ıı	N	lobil Polyrex E	- = N /I						
<u> сирпсані туре</u>		. IV	iobii Polytex E	_ IVI						
This revision replamust be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate value and a construction of the const	ed. lotor from the Im and with t weight subject ocess.	shaft end.	f +3dB(A).	hich		upply, s		s based on to he tolerance		
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Revision

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Thermal protection

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

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Checked by		_		Page	Revision
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