DATA SHEET

Checked by

Date

30/08/2023

Three Phase Induction Motor - Squirrel Cage



Customer :

Customer	:									
Product line : W22 IE3 Three-Phase				Product code :			1286	12867464		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 100L : 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)		: B3T : Both : Dire : 32.7	: IC411 - TEFC : B3T : Both (CW and CCW) : Direct On Line : 32.7 kg : 0.0090 kgm²		
Output [kW]		2.2			2.2		2.2			2.2
Poles		4			4			4		4
Frequency [Hz]		50			50		50			60
Rated voltage [V]		220/380		230/400			240/415			460
Rated current [A]		8.22/4.76		8.03/4.62			7.89/4.56			4.06
L. R. Amperes [A]		60.8/35.2		62.7/36.0			64.7/37.4			36.5
LRC [A]		7.4		7.8			8.2			9.0
No load current [A	\]	3.8	3.80/2.20		4.17/2.40		4.50/2.60			2.20
Rated speed [RPI		1430		1435			1440			1745
Slip [%]		4.67		4.33			4.00			3.06
Rated torque [Nm]		14.7		14.6		14.6			12.0
Locked rotor torqu		310			350		380			409
Breakdown torque			290		340		370			400
Service factor		1.00			1.00		1.00			1.00
Temperature rise		8	80 K		80 K		8	80 K		80 K
Locked rotor time		32s (cold) 18s (hot)		32s (d	s (cold) 18s (hot)		32s (cold) 18s (hot)		32s	(cold) 18s (hot)
Noise level ²		53.0 dB(A)			53.0 dB(A)		53.0 dB(A)			54.0 dB(A)
	25% 50%	87.2			86.5		85.7			84.0
Efficiency (%)	75%		37.1	87.0			86.8			86.5
	100%	86.7			87.0		87.2			89.5
	25%	·			01.0		-			00.0
	50%	0.62			0.59		0	.55		0.55
Power Factor	75%	0.75			0.72			.68		0.68
	100%	0.81			0.79			.77		0.76
						.41				
Losses at normat				n percei			tput power			
		,9;1,0) 15.3		14.9			14.6			11.7
		,5;1,0)	13.9		13.5			13.3		10.6
(0/)		25;1,0)	12.5		12.2			11.9		
Losses (%)		,9;0,5)	6.7		6.5		6.4			5.1
		,5;0,5) 5.0			4.9		4.8			3.8
		5;0,25) 3.1			3.0		3.0			2.4
P7 (0,2					2.3		2.3 1.8		1.8	
		<u>Drive</u>		ive end	Foundat	ion loa	ds			
Bearing type		: 6206 ZZ 6205			Max. traction		: 1044 N			
Sealing		: V'R	V'Ring V'Ring		Max. compression		: 1365	5 N		
Lubrication inter		: -		-						
Lubricant amour	nt	: -		-						
Lubricant type		: N	lobil Polyrex E	ΞM						
This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of fu	ed. notor from the 1m and with t weight subject ocess.	shaft end olerance o	f +3dB(A).	nich		upply, s		s based on to he tolerance		h sinusoidal ated in IEC
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Customer :

Thermal protection

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

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