# DATA SHEET

Checked by

### Three Phase Induction Motor - Squirrel Cage



Revision

Page

Customer	:									
Product line : W22 IE3 Three-Phase				Product code :			12862	12862397		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree		: 200L : F : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55		Cooling method Mounting Rotation¹ Starting method Approx. weight³ Moment of inertia (J)		: IC411 - TEFC : B3T : Both (CW and CCW) : Direct On Line : 262 kg : 0.2368 kgm²				
Design		: N								
Output [kW]			37		37			7		37
Poles		2			2 50			2		2
Frequency [Hz]		50			400/690		50 415			60
Rated voltage [V] Rated current [A]		380/660				67.0			460 60.2	
			69.8/40.2		67.9/39.4					500.2
L. R. Amperes [A]			530/305		523/303		543			8.3
LRC [A]	1	7.6		7.7		8.1 29.5				
No load current [A			24.0/13.8		27.0/15.7					26.0 3575
Rated speed [RPN Slip [%]	/ij		2965		2970 1.00		2970			0.69
	1	1.17					1.00			
Rated torque [Nm] Locked rotor torqu			119 300		119 330			119 360		98.9 380
Breakdown torque										380
Service factor	: [70]	300			330			360 1.00		1.00
		1.00 80 K			1.00 80 K			1.00 80 K		80 K
Locked rotor time	Temperature rise		19s (cold) 11s (hot)		(cold) 10s (hot)			6s (cold) 9s (hot)		(cold) 13s (hot)
Noise level <sup>2</sup>			d) 118 (1101) ) dB(A)		2.0 dB(A)	1101)		dB(A)		76.0 dB(A)
INDISC ICVCI	25%	12.0	J UB(A)	,	2.0 UB(A)		12.0	ub(A)		70.0 db(A)
	50%	93.0			92.6		92.0			91.5
Efficiency (%)	75%	93.6			93.4		93.2			93.0
	100%		93.7		93.7			93.7		93.0
	25%	,	70.1		30.7			<i>7.1</i>		30.0
	50%	(	0.74		0.69		0.63			0.68
Power Factor	75%	0.83			0.79			76		0.78
	100%	0.86		0.84		0.82			0.83	
								02		0.00
Losses at normat				n percei			itput power			
		0,9;1,0) 6.4 0,5;1,0) 5.1				5.4		6.4		7.1
		2 (0,5;1,0)				5.1		5.1		5.7
1		25;1,0)	4.8			1.8		4.8		5.4
Losses (%)		,9;0,5) 3.4			3.4		3.4			3.8
		5;0,5) 2.1			2.1		2.1			2.4
		5;0,25)	1.5		1.5		1.5			1.6
	P7 (0,2	25;0,25)			1.0		1.0 1.1		1.1	
Bearing type Sealing Lubrication interval		: 6312 2	Drive end Non drive end 6312 ZZ C3 6212 ZZ C3 V'Ring V'Ring		Foundation loads  Max. traction : 3442 N  Max. compression : 6011 N					
Lubricant amoun				_						
Lubricant type		: M	lobil Polyrex E	=M						
		- '''								
This revision replamust be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of full	ed. lotor from the Im and with t weight subject ocess.	shaft end.	f +3dB(A).	hich		upply, s		based on te ne tolerances		h sinusoidal ated in IEC
Rev.		Chang	ges Summary	,	Performed		Checked [		Date	
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Date	30/08/2023		1/3				
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### Three Phase Induction Motor - Squirrel Cage



Customer :

#### Thermal protection

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

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