# DATA SHEET

Checked by

Date

30/08/2023

### Three Phase Induction Motor - Squirrel Cage



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Customer	:									
Product line : W22 IE3 Thi		2 IE3 Three-	3 Three-Phase		Product code :		128681	12868103		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design			: 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)		: B5T : Both ( : Direct : 24.2 k	: IC411 - TEFC : B5T : Both (CW and CCW) : Direct On Line : 24.2 kg : 0.0026 kgm²		
			2.2		2.2		2	2		2.2
Output [kW] Poles			2.2		2.2		2.2			2.2
Frequency [Hz]			50		50		50			60
Rated voltage [V]		22	220/380		230/400		240/415			460
Rated current [A]			7.91/4.58		7.84/4.51		7.80/4.51			3.99
L. R. Amperes [A]	1		7.91/4.58 55.4/32.1		58.8/33.8		62.4/36.1			34.7
LRC [A]					58.8/33.8 7.5					8.7
No load current [A	Δ1		7.0		7.5 4.17/2.40		8.0 4.67/2.70			2.20
Rated speed [RPI			3.45/2.00							3500
Slip [%]	ıvı]		2870 4.33		2885		2895 3.50			2.78
Rated torque [Nm	.1				3.83					6.01
Locked rotor torque			7.32		7.29		7.26			409
·			310		350		370			440
Breakdown torque Service factor	e [%]		300		340		380			1.00
			1.00		1.00		1.00			80 K
Temperature rise Locked rotor time			80 K		80 K 16s (cold) 9s (hot)		80 K		100	(cold) 10s (hot)
Noise level <sup>2</sup>			18s (cold) 10s (hot) 62.0 dB(A)		2.0 dB(A)		16s (cold) 9s (hot) 62.0 dB(A)			68.0 dB(A)
Noise level	25%	02.0	J UD(A)	0	2.0 ub(A)		02.0	ub(A)		00.0 ub(A)
Efficiency (%)	50%		85.0		83.0		83.0			84.0
Lindicitoy (70)	75%		85.5		85.9		85.0			85.5
	100%		85.9		85.9		85.9			86.5
	25%									
Power Factor	50%		0.68		0.62		0.57			0.60
FOWEI FACIOI	75%		0.79		0.75			70		0.73
	100%	(	0.85		0.82		0.79			0.80
Losses at norma	tive operatin	a points (sp	eed:torque). i	n percei	ntage of ra	ated out	nut nower			
200000 0111011110		0,9;1,0)			16.0		16.0			15.3
		0,5;1,0)			14.1		14.1			13.4
	,	),25;1,0)	12.9		12.9		12.9			12.2
Losses (%)		0,9;0,5)		7.6		7.6		7.6		7.2
200000 (70)	,	0,5;0,5)	,		5.3		5.3			5.0
		),5;0,25)			3.5		3.5			3.3
		,25;0,25)			2.5		2.5		2.4	
17(0,			,							
Bearing type			Drive end Non drive: 6205 ZZ 6206				3	. COC N		
- · ·					Max. traction Max. compression		on	: 636 N : 873 N		
Sealing Lubrication interval		. On c	Oil Seal Lip Se		wax. compression		. 075 N			
Lubrication interval		•								
Lubricant type		· N	Mobil Polyrex EM							
Labricant type . IVIODII I OlyTOX LIVI										
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.			nich	These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.						
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Page

1/3

Revision

# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



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Customer	:				
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Rev.		Changes Summary	Performed	Checked	Date
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				D	Davidat
Checked by				Page	Revision

# DATA SHEET

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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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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	30/08/2023			3/3	