

# ELMA MOTORS



Data Sheet				No.		
Three Phase Induction Motor				Drawing No.		
Customer						
Client reference						
Type:	EM2-100L-4 2.2KW 230 400V 50HZ					
Brand	Elma		Date 20-11-2013			
Identification						
Frame:	100	mm	Insulation Class:	F		
Output:	2,2	kW	Temperature Rise:	38.5K		
Frequency:	50	Hz	Service Factor:	1,00		
Poles:	4	P	Duty:	S1		
Rated Speed:	1435	rpm	Ambient Temperature:	-20~+40°C		
Slip:	4,3	%	Altitude:	1000m		
Rated Voltage:	230 / 400	V	Protection Degree:	IP55		
Connection:	Δ / Y		Cooling:	IC411		
Rated Current:	8,14 / 4,68	A	Mounting:	IM B3		
Rotor Voltage:			Vibration:	1.6 mm/s		
Connection:			Approx. Weight:	35	kg	
Rotor Current:			Moment of Inertia:	0,0054	kg/m <sup>2</sup>	
Locked Rotor Current:	690	%	Noise Level (Lp) :	50,5	dB(A)	
No Load Current:			Direction of Rotation:	Both		
Rated Torque:	14,6	Nm	Starting Method:	DOL	Y/D	VFD soft -st
Locked Rotor Torque:	320	%	Coupling:	DIRECT		
Breakdown Torque:	340	%	Colour	RAL 7031		
			Load Type:	Constant torque / Quadratical torque		
Performance				Bearing Information		
		efficiency class	IE2			
Output:	50%	75%	100%	DE		NDE
Efficiency(%) :	86,3	87,4	86,83	Bearing:		6206ZZ/C3 6206ZZ/C3
Power Factor:	0,57	0,70	0,781	Regreasing int.(h):		
				Grease amount(g)		
				Grease-PolyrexEM		Caltex SRI-2 Caltex SRI-2
Notes / Accessories				Classification		
Winding : 3XPTC150°C				attest		
Heaters, 230V 50Hz				3.1 3.2		
				Bureau Veritas		n.a. n.a.
				Germanischer Lloyd		n.a. n.a.
				Lloyds register of shipping		n.a. n.a.
				RINA		n.a. n.a.
				DNV		n.a. n.a.
				Other		n.a. n.a.
Standards				PRELIMINARY DOCUMENT		
Specification:	IEC60034-1 / GB755					
Test:	IEC60034-2-1 / GB/T1032					
Noise:	IEC60034-9 / GB10069.3					
Vibration:	IEC60034-14 / GB10068					
Edition						
Performed		Checked	Date			
Item	Changes		Performed	Checked	Date	