

ELMA MOTORS



Data Sheet				No.	
Three Phase Induction Motor				Drawing No.	
Customer					
Client reference					
Type:		EM2-90S-2 1.5KW 230 400V 50HZ			
Brand		Elma		Date 20-11-2013	
Identification					
Frame:	90	mm	Insulation Class:	F	
Output:	1,5	kW	Temperature Rise:	29.8K	
Frequency:	50	Hz	Service Factor:	1,00	
Poles:	2	P	Duty:	S1	
Rated Speed:	2860	rpm	Ambient Temperature:	-20~+40°C	
Slip:	4,7	%	Altitude:	1000m	
Rated Voltage:	230	400	V	Protection Degree:	IP55
Connection:	Δ / Y		Cooling:	IC411	
Rated Current:	5,44 / 3,13		A	Mounting:	IM B3
Rotor Voltage:			Vibration:	1.6 mm/s	
Connection:			Approx. Weight:	23	kg
Rotor Current:			Moment of Inertia:	0,00185	kg/m ²
Locked Rotor Current:	660	%	Noise Level (Lp) :	57,1	dB(A)
No Load Current:			Direction of Rotation:	CW	
Rated Torque:	5,0	Nm	Starting Method:	DOL Y/D VFD soft -st	
Locked Rotor Torque:	280	%	Coupling:	DIRECT	
Breakdown Torque:	290	%	Colour	RAL 7031	
			Load Type:	Constant torque / Quadratical torque	
Performance			efficiency class IE2		
Output:	50%	75%	100%	Bearing Information	
Efficiency(%) :	83,2	85,0	84,57	DE	NDE
Power Factor:	0,62	0,75	0,818	Bearing:	6205ZZ/C3 6205ZZ/C3
				Regreasing int.(h):	
				Grease amount(g)	
				Grease-PolyrexEM	Caltex SRI-2 Caltex SRI-2
Notes / Accessories			Cassification		
Winding : 3XPTC150°C			attest 3.1 3.2		
Heaters, 230V 50Hz			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