

# ELMA MOTORS



Data Sheet				No.	
Three Phase Induction Motor				Drawing No.	
Customer					
Client reference					
Type:		EM2-280M-6 55KW 400 690V 50HZ			
Brand		Elma		Date 20-11-2013	
Identification					
Frame:	280	mm	Insulation Class:	F	
Output:	55	kW	Temperature Rise:	42.6K	
Frequency:	50	Hz	Service Factor:	1.00	
Poles:	6	P	Duty:	S1	
Rated Speed:	990	rpm	Ambient Temperature:	-20~+40°C	
Slip:	1,0	%	Altitude:	1000m	
Rated Voltage:	400	V	Protection Degree:	IP55	
Connection:	Δ		Cooling:	IC411	
Rated Current:	97,3	A	Mounting:	IM B3	
Rotor Voltage:			Vibration:	2.2 mm/s	
Connection:			Approx. Weight:	540	kg
Rotor Current:			Moment of Inertia:	1,965	kg/m <sup>2</sup>
Locked Rotor Current:	680	%	Noise Level (Lp) :	66	dB(A)
No Load Current:			Direction of Rotation:	Both	
Rated Torque:	530,6	Nm	Starting Method:	DOL Y/D VFD soft -st	
Locked Rotor Torque:	240	%	Coupling:	DIRECT	
Breakdown Torque:	260	%	Colour	RAL 7031	
			Load Type:	Constant torque / Quadratical torque	
Performance			efficiency class IE2		
Output:	50%	75%	100%	Bearing Information	
Efficiency(%) :	92,27	93,5	93,66	DE	NDE
Power Factor:	0,72	0,82	0,871	Bearing:	6317C3 6317C3
				Regreasing int.(h):	4500 4500
				Grease amount(g)	37 37
				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