

# ELMA MOTORS



Data Sheet				No.		
Three Phase Induction Motor				Drawing No.		
Customer						
Client reference						
Type:		EM3-250M-4 55KW 400 690V 50HZ				
Brand		Elma			Date 20-11-2013	
Identification						
Frame:	250	mm	Insulation Class:	F		
Output:	55	kW	Temperature Rise:	38.6K		
Frequency:	50	Hz	Service Factor:	1,00		
Poles:	4	P	Duty:	S1		
Rated Speed:	1485	rpm	Ambient Temperature:	-20~+40°C		
Slip:	1,0	%	Altitude:	1000m		
Rated Voltage:	400	V	Protection Degree:	IP55		
Connection:	Δ		Cooling:	IC411		
Rated Current:	98,0	A	Mounting:	IM B3		
Rotor Voltage:			Vibration:	2.2 mm/s		
Connection:			Approx. Weight:	405	kg	
Rotor Current:			Moment of Inertia:	1,02358	kg/m2	
Locked Rotor Current:	787	%	Noise Level (Lp) :	80,3	dB(A)	
No Load Current:			Direction of Rotation:	Both		
Rated Torque:	353,7	Nm	Starting Method:	DOL	Y/D	VFD soft -st
Locked Rotor Torque:	253	%	Coupling:	DIRECT		
Breakdown Torque:	361	%	Colour	RAL 7031		
			Load Type:	Constant torque / Quadratical torque		
Performance			efficiency class IE3			
Output:	50%	75%	100%	Bearing Information		
Efficiency(%) :	94,3	94,8	94,62	Bearing:	DE	NDE
Power Factor:	0,74	0,81	0,856	6314ZZ/C3	6314ZZ/C3	
				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			<b>PRELIMINARY DOCUMENT</b>			
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	