

ELMA MOTORS



Data Sheet				No.		
Three Phase Induction Motor				Drawing No.		
Customer						
Client reference						
Type:		EM3-225M-4 45KW 400 690V 50HZ				
Brand		Elma		Date 20-11-2013		
Identification						
Frame:	225	mm	Insulation Class:	F		
Output:	45	kW	Temperature Rise:	54.8K		
Frequency:	50	Hz	Service Factor:	1,00		
Poles:	4	P	Duty:	S1		
Rated Speed:	1480	rpm	Ambient Temperature:	-20~+40°C		
Slip:	1,3	%	Altitude:	1000m		
Rated Voltage:	400	V	Protection Degree:	IP55		
Connection:	Δ		Cooling:	IC411		
Rated Current:	82,8	A	Mounting:	IM B3		
Rotor Voltage:			Vibration:	2.2 mm/s		
Connection:			Approx. Weight:	326	kg	
Rated Current:			Moment of Inertia:	0,73838	kg/m2	
Locked Rotor Current:	798	%	Noise Level (Lp) :	77,8	dB(A)	
No Load Current:			Direction of Rotation:	Both		
Rated Torque:	290,4	Nm	Starting Method:	DOL	Y/D	VFD soft -st
Locked Rotor Torque:	314	%	Coupling:	DIRECT		
Breakdown Torque:	372	%	Colour	RAL 7031		
			Load Type:	Constant torque / Quadratical torque		
Performance			efficiency class IE3			
Output:	50%	75%	100%	Bearing Information		
Efficiency(%) :	93,1	94,1	94,21	Bearing:	DE	NDE
Power Factor:	0,67	0,78	0,833	6313ZZ/C3	6313ZZ/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			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	