

# ELMA MOTORS



Data Sheet				No.		
Three Phase Induction Motor				Drawing No.		
Customer						
Client reference						
Type:		EM3-315L-4 160KW 400 690V 50HZ				
Brand		Elma		Date 20-11-2013		
Identification						
Frame:	315	mm	Insulation Class:	F		
Output:	160	kW	Temperature Rise:	64K		
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:	278,0	A	Mounting:	IM B3		
Rotor Voltage:			Vibration:	2.8 mm/s		
Connection:			Approx. Weight:	1160	kg	
Rotor Current:			Moment of Inertia:	5,2356	kg/m <sup>2</sup>	
Locked Rotor Current:	800	%	Noise Level (Lp) :	76,5	dB(A)	
No Load Current:			Direction of Rotation:	Both		
Rated Torque:	1029,0	Nm	Starting Method:	DOL	Y/D	VFD soft -st
Locked Rotor Torque:	295	%	Coupling:	DIRECT		
Breakdown Torque:	407	%	Colour	RAL 7031		
			Load Type:	Constant torque / Quadratical torque		
Performance			efficiency class IE3			
Output:	50%	75%	100%	Bearing Information		
Efficiency(%) :	95,6	96,2	96,15	Bearing:	DE	NDE
Power Factor:	0,73	0,83	0,864	Regreasing int.(h):	6319C3	6319C3
				Grease amount(g)	3500	3500
				Grease-PolyrexEM	45	45
					Caltex SRI-2	Caltex SRI-2
Notes / Accessories			Cassification			
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	