

ELMA MOTORS



Data Sheet				No.		
Three Phase Induction Motor				Drawing No.		
Customer						
Client reference						
Type:		EM3-160M-2 11KW 400 690V 50HZ				
Brand		Elma		Date 20-11-2013		
Identification						
Frame:	160	mm	Insulation Class:	F		
Output:	11	kW	Temperature Rise:	33.3K		
Frequency:	50	Hz	Service Factor:	1,00		
Poles:	2	P	Duty:	S1		
Rated Speed:	2940	rpm	Ambient Temperature:	-20~+40°C		
Slip:	2,0	%	Altitude:	1000m		
Rated Voltage:	400	V	Protection Degree:	IP55		
Connection:	Δ		Cooling:	IC411		
Rated Current:	18,8	A	Mounting:	IM B3		
Rotor Voltage:			Vibration:	2.2 mm/s		
Connection:			Approx. Weight:	116	kg	
Rotor Current:			Moment of Inertia:	0,05097	kg/m2	
Locked Rotor Current:	803	%	Noise Level (Lp) :	74,5	dB(A)	
No Load Current:			Direction of Rotation:	CW		
Rated Torque:	35,7	Nm	Starting Method:	DOL	Y/D	VFD soft -st
Locked Rotor Torque:	305	%	Coupling:	DIRECT		
Breakdown Torque:	366	%	Colour	RAL 7031		
			Load Type:	Constant torque / Quadratical torque		
Performance			efficiency class		IE3	
Output:	50%	75%	100%			
Efficiency(%) :	92,4	93,2	93,09			
Power Factor:	0,83	0,89	0,907			
Bearing Information						
				DE	NDE	
				6309ZZ/C3	6309ZZ/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