

ELMA MOTORS



Data Sheet				No.		
Three Phase Induction Motor				Drawing No.		
Customer						
Client reference						
Type:				EM3-280M-2 90KW 400 690V 50HZ		
Brand				Elma		Date 12-11-2013
Identification						
Frame:	280	mm	Insulation Class:	F		
Output:	90	kW	Temperature Rise:	48.7K		
Frequency:	50	Hz	Service Factor:	1,00		
Poles:	2	P	Duty:	S1		
Rated Speed:	2975	rpm	Ambient Temperature:	-20~+40°C		
Slip:	0,8	%	Altitude:	1000m		
Rated Voltage:	400	V	Protection Degree:	IP55		
Connection:	Δ		Cooling:	IC411		
Rated Current:	154,5	A	Mounting:	IM B3		
Rotor Voltage:			Vibration:	2.2 mm/s		
Connection:			Approx. Weight:	580	kg	
Rotor Current:			Moment of Inertia:	1,07078	kg/m2	
Locked Rotor Current:	785	%	Noise Level (Lp) :	81,9	dB(A)	
No Load Current:			Direction of Rotation:	CW		
Rated Torque:	288,9	Nm	Starting Method:	DOL	Y/D	VFD soft -st
Locked Rotor Torque:	244	%	Coupling:	DIRECT		
Breakdown Torque:	373	%	Colour	RAL 7031		
			Load Type:	Constant torque / Quadratical torque		
Performance				efficiency class IE3		
Output:	50%	75%	100%	Bearing Information		
Efficiency(%) :	94,8	95,5	95,53	Bearing:	6314C3	6314C3
Power Factor:	0,80	0,86	0,88	Regreasing int.(h):	2000	2000
				Grease amount(g)	27	27
				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