

ELMA MOTORS



Data Sheet				No.		
Three Phase Induction Motor				Drawing No.		
Customer						
Client reference						
Type:	EM2-280M-4 90KW 400 690V 50HZ					
Brand	Elma		Date 20-11-2013			
Identification						
Frame:	280	mm	Insulation Class:	F		
Output:	90	kW	Temperature Rise:	64.6K		
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:	154,2	A	Mounting:	IM B3		
Rotor Voltage:			Vibration:	2.2 mm/s		
Connection:			Approx. Weight:	660	kg	
Rotor Current:			Moment of Inertia:	1,396	kg/m ²	
Locked Rotor Current:	640	%	Noise Level (Lp) :	73,8	dB(A)	
No Load Current:			Direction of Rotation:	Both		
Rated Torque:	578,8	Nm	Starting Method:	DOL	Y/D	VFD soft -st
Locked Rotor Torque:	230	%	Coupling:	DIRECT		
Breakdown Torque:	280	%	Colour	RAL 7031		
			Load Type:	Constant torque / Quadratical torque		
Performance			efficiency class		IE2	
Output:	50%	75%	100%			
Efficiency(%) :	94,3	94,6	94,22			
Power Factor:	0,80	0,87	0,894			
Bearing Information						
Bearing:	DE		NDE			
Regreasing int.(h):	6317C3		6317C3			
Grease amount(g)	3500		3500			
Grease-PolyrexEM	37		37			
	Caltex SRI-2		Caltex SRI-2			
Notes / Accessories				Classification		
Winding : 3XPTC150°C				attest		
Heaters, 230V 50Hz				3.1 3.2		
				Bureau Veritas		
				Germanischer Lloyd		
				Lloyds register of shipping		
				RINA		
				DNV		
				Other		
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