

# ELMA MOTORS



Data Sheet				No.20199004		
Three Phase Induction Motor				Drawing No.		
Customer		Landustrie				
Client reference		10089947				
Type:		EM3-90L-4 1.5KW 230 400V 50HZ				
Brand		Elma		Date 21-01-2019		
Identification						
Frame:	90	mm	Insulation Class:	F		
Output:	1,5	kW	Temperature Rise:	40.9K		
Frequency:	50	Hz	Service Factor:	1,00		
Poles:	4	P	Duty:	S1		
Rated Speed:	1420	rpm	Ambient Temperature:	-20~+40°C		
Slip:	5,3	%	Altitude:	1000m		
Rated Voltage:	230 / 400	V	Protection Degree:	IP55		
Connection:	Δ / Y		Cooling:	IC411		
Rated Current:	5,91 / 3,40	A	Mounting:	IM B3		
Rotor Voltage:			Vibration:	1.6 mm/s		
Connection:			Approx. Weight:	29	kg	
Rotor Current:			Moment of Inertia:	0,0027	kg/m2	
Locked Rotor Current:	620	%	Noise Level (Lp) :	47,5	dB(A)	
No Load Current:			Direction of Rotation:	Both		
Rated Torque:	10,1	Nm	Starting Method:	DOL	Y/D	VFD soft -st
Locked Rotor Torque:	390	%	Coupling:	DIRECT		
			Colour	RAL 7031		
Breakdown Torque:	400	%	Load Type:	Constant torque / Quadratical torque		
Performance				efficiency class IE3		
Output:	50%	75%	100%	Bearing Information		
Efficiency(%) :	81,6	84,8	85,64		DE	NDE
Power Factor:	0,52	0,66	0,744	Bearing:	6205ZZ/C3	6205ZZ/C3
				Regreasing int.(h):		
				Grease amount(g)		
				Grease-PolyrexEM	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