

# ELMA MOTORS



<b>Data Sheet</b>		Motor No.
<b>Three Phase Induction Motor</b>		Drawing No.
Customer		
Client reference		
Type:	<b>EM-IE3-90S2-1,5kW 230/400V 50Hz B3</b>	
Brand	Date	

Identification				
Frame:	<b>90</b>	mm	Insulation Class:	<b>F</b>
Output:	<b>1,5</b>	kW	Temperature Rise:	<b>80K</b>
Frequency:	<b>50</b>	Hz	Service Factor:	<b>1,0</b>
Poles:	<b>2</b>	P	Duty:	<b>S1</b>
Rated Speed:	<b>2850</b>	rpm	Ambient Temperature:	<b>-20-40 °C</b>
Slip:	<b>5,0</b>	%	Altitude:	<b>1000m</b>
Rated Voltage:	<b>230 / 400</b>	V	Protection Degree:	<b>IP55</b>
Connection:	<b>Δ/Y</b>		Cooling:	<b>IC411</b>
Rated Current:	<b>5,3 / 3,1</b>	A	Mounting:	<b>B3</b>
Rotor Voltage:			Vibration:	<b>2,8mm/s</b>
Connection:			Approx. Weight:	<b>24</b> kg
Rotor Current:			Moment of Inertia:	<b>0,0019</b> kg/m <sup>2</sup>
Locked Rotor Current:	<b>750</b>	%	Noise Level (Lp) :	<b>62</b> dB(A)
No Load Current:			Direction of Rotation:	<b>BOTH</b>
Rated Torque:	<b>5,0</b>	Nm	Starting Method:	<b>DIRECT ON LINE</b>
Locked Rotor Torque:	<b>220</b>	%	Coupling:	<b>DIRECT</b>
Breakdown Touque:	<b>230</b>	%	Load Type:	<b>PARABOLIC CURVE</b>

Performance				Bearing Information		
Output:	50%	75%	100%		DE	NDE
Efficiency(%):	82,5	85,1	<b>85</b>	Bearing:	<b>6205 2RZ</b>	<b>6205 2RZ</b>
Power Factor:	0,71	0,79	<b>0,83</b>	Regreasing int.(h):		
				Grease amount(g)		
				Grease-PolyrexEM		

Notes / Accessories	Deviation Sheet	
<b>Winding: 3XPTC150°C</b>	Attest	n.a. n.a.
	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:	<b>IEC60034-1/GB755</b>				
Test:	<b>IEC60034-2/GB/T1032</b>				
Noise:	<b>IEC60034-9/GB10069.3</b>				
Vibration:	<b>IEC60034-14/GB10068</b>				
Edition					
Performed	Checked	Date			

Item	Changes	Performed	Checked	Date