



**Brake Motors - IE3/IE2/IE1**

**HIGH EFFICIENCY MOTORS - IE2**

- Options make motors suitable for either onshore or offshore duties
- Engineered to give high performance with maximum efficiency
- Reliability & durability ensured through total control over component supply chains



**TECHNICAL DATA**

**Motor Type**

AMHES 90S AA4 - 1.1 kW - 4 poles - 400V - 50Hz

**PERFORMANCE DATA**

<b>Type</b>	AMHES 90S AA
<b>Poles</b>	4
<b>kW</b>	1.1
<b>HP</b>	1.5
<b>rpm</b>	1430
<b>Mn Nm</b>	7.3
$\eta$ 50%	81.4
$\eta$ 75%	82.7
$\eta$ 100%	82.5
<b>cos Phi</b>	0.77
<b>I<sub>N</sub></b>	2.5
<b>I<sub>A</sub>/I<sub>N</sub></b>	6.1
<b>M<sub>A</sub>/M<sub>N</sub></b>	4
<b>M<sub>K</sub>/M<sub>N</sub></b>	4.1

<b>J 10<sup>-3</sup> kgm<sup>2</sup></b>	4.43
<b>Mb max Nm</b>	7
<b>zL 1) c/h</b>	3250
<b>kg</b>	17.5

## Mechanical Data

<b>Design</b>	Aluminium
<b>Degree of protection</b>	IP 55
<b>Bearings DE/NDE</b>	6205/2Z
<b>Lubrication grease</b>	low & high temperature grease
<b>Regreasing device horizontal</b>	permanent lubrication
<b>Regreasing device vertical</b>	permanent lubrication
<b>Cooling</b>	IC 411
<b>Vibration Level</b>	A (normal)
<b>Noise Lpa db(A)</b>	49

## Electrical Data

<b>Voltage</b>	400V - 50Hz
<b>Connection</b>	?/Y 230/400V
<b>Duty type</b>	S1
<b>Thermal protection</b>	na
<b>Insulation class</b>	F
<b>Direction of rotation</b>	bidirectional
<b>Ambient temperature</b>	-20°C / +40 °C
<b>Altitude</b>	1000 m.a.s.l.