



**AC Three-phase Motors - IE4/IE3/IE2/IE1**

**STANDARD EFFICIENCY MOTORS - IE1**

- Reliability and efficiency in a well-designed robust package
- Extensive customization options ensure motors match application needs



**TECHNICAL DATA**

**Motor Type** AM 90S BA2 - 1.8 kW - 2 poles - 400V - 50Hz

**PERFORMANCE DATA**

<b>Type</b>	AM 90S BA
<b>Poles</b>	2
<b>kW</b>	1.8
<b>HP</b>	2.5
<b>rpm</b>	2805
<b>Mn Nm</b>	6.1
$\eta$ 50%	74.9
$\eta$ 75%	78.0
$\eta$ 100%	78.2
<b>cos Phi</b>	0.80
<b>I<sub>N</sub> 400V</b>	4.2
<b>I<sub>N</sub> 380-420V</b>	4.3
<b>I<sub>A</sub>/I<sub>N</sub></b>	4.5
<b>M<sub>A</sub>/M<sub>N</sub></b>	2.6

<b>M<sub>S</sub>/M<sub>N</sub></b>	2.4
<b>M<sub>K</sub>/M<sub>N</sub></b>	2.5
<b>J 10<sup>-3</sup> kgm<sup>2</sup></b>	1.23
<b>kg</b>	12.7

## 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>	62

## 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.