



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

**PREMIUM EFFICIENCY MOTORS - IE3/CURUS**

- IE3 Premium Efficiency compliant since 2010
- Total reliability and longevity in a well-engineered package
- Enhanced designs to meet today's challenges and market needs



## TECHNICAL DATA

**Motor Type**

AMPE 112M AA2 - 4 kW - 2 poles - 400V - 50Hz

## PERFORMANCE DATA

<b>Type</b>	AMPE 112M AA
<b>Poles</b>	2
<b>kW</b>	4
<b>HP</b>	5.5
<b>rpm</b>	2910
<b>Mn Nm</b>	13.1
$\eta$ 50%	86.8
$\eta$ 75%	87.8
$\eta$ 100%	88.1
<b>cos Phi</b>	0.93
<b>I<sub>N</sub></b>	7.0
<b>I<sub>A</sub>/I<sub>N</sub></b>	9.6
<b>M<sub>A</sub>/M<sub>N</sub></b>	3.6
<b>M<sub>S</sub>/M<sub>N</sub></b>	3.0

<b><math>M_K/M_N</math></b>	4.0
<b>J 10<sup>-3</sup> kgm<sup>2</sup></b>	6.48
<b>kg</b>	27.4

## Mechanical Data

<b>Design</b>	Aluminium
<b>Degree of protection</b>	IP 55
<b>Bearings DE/NDE</b>	6306/2Z
<b>Lubrication grease</b>	low & high temperature grease
<b>Regreasing device horizontal</b>	permanent lubrication
<b>Regreasing device vertical</b>	permanent lubrication
<b>Grease Quantity</b>	-
<b>Cooling</b>	IC 411
<b>Vibration Level</b>	A (normal)
<b>Noise Lpa db(A)</b>	68

## Electrical Data

<b>Voltage</b>	400V - 50Hz
<b>Connection</b>	?/Y 230/400V - ?/Y 400/690V
<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.