



**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 112M AA8 - 1.5 kW - 8 poles - 400V - 50Hz

**PERFORMANCE DATA**

|                                    |            |
|------------------------------------|------------|
| <b>Type</b>                        | AM 112M AA |
| <b>Poles</b>                       | 8          |
| <b>kW</b>                          | 1.5        |
| <b>HP</b>                          | 2          |
| <b>rpm</b>                         | 696        |
| <b>Mn Nm</b>                       | 20.6       |
| $\eta$ 50%                         | 66.0       |
| $\eta$ 75%                         | 69.0       |
| $\eta$ 100%                        | 70.0       |
| <b>cos Phi</b>                     | 0.66       |
| <b>I<sub>N</sub> 400V</b>          | 4.6        |
| <b>I<sub>N</sub> 380-420V</b>      | 4.8        |
| <b>I<sub>A</sub>/I<sub>N</sub></b> | 4.0        |
| <b>M<sub>A</sub>/M<sub>N</sub></b> | 1.8        |

|  |       |
|--|-------|
| <b>M<sub>S</sub>/M<sub>N</sub></b>       | 2.0   |
| <b>M<sub>K</sub>/M<sub>N</sub></b>       | 2.4   |
| <b>J 10<sup>-3</sup> kgm<sup>2</sup></b> | 15.35 |
| <b>kg</b>                                | 35.0  |

## 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>Cooling</b>                      | IC 411                        |
| <b>Vibration Level</b>              | A (normal)                    |
| <b>Noise Lpa db(A)</b>              | 46                            |

## 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.  |