



**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 BA4 - 4 kW - 4 poles - 400V - 50Hz

**PERFORMANCE DATA**

|                                    |              |
|------------------------------------|--------------|
| <b>Type</b>                        | AMPE 112M BA |
| <b>Poles</b>                       | 4            |
| <b>kW</b>                          | 4            |
| <b>HP</b>                          | 5.5          |
| <b>rpm</b>                         | 1450         |
| <b>Mn Nm</b>                       | 26.4         |
| $\eta$ 50%                         | 87.2         |
| $\eta$ 75%                         | 88.3         |
| $\eta$ 100%                        | 88.6         |
| <b>cos Phi</b>                     | 0.80         |
| <b>I<sub>N</sub></b>               | 8.2          |
| <b>I<sub>A</sub>/I<sub>N</sub></b> | 8.5          |
| <b>M<sub>A</sub>/M<sub>N</sub></b> | 2.7          |
| <b>M<sub>S</sub>/M<sub>N</sub></b> | 2.4          |

|                                          |      |
|------------------------------------------|------|
| <b><math>M_K/M_N</math></b>              | 3.5  |
| <b>J 10<sup>-3</sup> kgm<sup>2</sup></b> | 16.4 |
| <b>kg</b>                                | 36   |

## 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>              | 53                            |

## 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.               |