



**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 100L CA4 - 4.0 kW - 4 poles - 400V - 50Hz

**PERFORMANCE DATA**

|                                    |            |
|------------------------------------|------------|
| <b>Type</b>                        | AM 100L CA |
| <b>Poles</b>                       | 4          |
| <b>kW</b>                          | 4.0        |
| <b>HP</b>                          | 5.5        |
| <b>rpm</b>                         | 1400       |
| <b>Mn Nm</b>                       | 27.3       |
| $\eta$ 50%                         | 80.8       |
| $\eta$ 75%                         | 81.8       |
| $\eta$ 100%                        | 80.4       |
| <b>cos Phi</b>                     | 0.78       |
| <b>I<sub>N</sub> 400V</b>          | 9.2        |
| <b>I<sub>N</sub> 380-420V</b>      | 9.3        |
| <b>I<sub>A</sub>/I<sub>N</sub></b> | 6.0        |
| <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>       | 2.9  |
| <b>J 10<sup>-3</sup> kgm<sup>2</sup></b> | 6.3  |
| <b>kg</b>                                | 25.0 |

## Mechanical Data

|                                     |                               |
|-------------------------------------|-------------------------------|
| <b>Design</b>                       | ALUMINIUM                     |
| <b>Degree of protection</b>         | IP 55                         |
| <b>Bearings DE/NDE</b>              | 6206/2Z                       |
| <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>              | 50                            |

## 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.               |