



**Brake Motors - IE3/IE2/IE1**

**PREMIUM EFFICIENCY MOTORS - IE3**

- Options make motors suitable for either onshore or offshore duties
- Engineered to give high performance with maximum efficiency
- Reliability & durability ensured through total control over component supply chains



**TECHNICAL DATA**

**Motor Type** AMPES 112M AA2 - 4 kW - 2 poles - 400V - 50Hz

**PERFORMANCE DATA**

|                                    |               |
|------------------------------------|---------------|
| <b>Type</b>                        | AMPES 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>K</sub>/M<sub>N</sub></b> | 4.0           |

|  |                     |
|--|---------------------|
| <b>J 10<sup>-3</sup> kgm<sup>2</sup></b> | 7.2                 |
| <b>Mb max Nm</b>                         | 40(75) <sup>2</sup> |
| <b>zL 1) c/h</b>                         | 1065                |
| <b>kg</b>                                | 44                  |

## 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>              | 68                            |

## Electrical Data

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