



### Brake Motors - IE3/IE2/IE1

### HIGH EFFICIENCY MOTORS - IE2

- 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

AMHEBZ 160L DA4 - 22 kW - 4 poles - 400V - 50Hz

## PERFORMANCE DATA

|             |                |
|-------------|----------------|
| Type        | AMHEBZ 160L DA |
| Poles       | 4              |
| kW          | 22             |
| HP          | 30             |
| rpm         | 1460           |
| Mn Nm       | 144.0          |
| $\eta$ 50%  | 92.4           |
| $\eta$ 75%  | 92.5           |
| $\eta$ 100% | 91.9           |
| cos Phi     | 0.80           |
| $I_N$       | 43.5           |
| $I_A/I_N$   | 8.3            |
| $M_A/M_N$   | 2.2            |
| $M_K/M_N$   | 3              |

|  |     |
|--|-----|
| <b>J 10<sup>-3</sup> kgm<sup>2</sup></b> | 120 |
| <b>Mb max Nm</b>                         | 250 |
| <b>zL 1) c/h</b>                         | 550 |
| <b>kg</b>                                | 168 |

## Mechanical Data

|                                     |                               |
|-------------------------------------|-------------------------------|
| <b>Design</b>                       | Aluminium                     |
| <b>Degree of protection</b>         | IP 55                         |
| <b>Bearings DE/NDE</b>              | 6309/2Z                       |
| <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>              | 62                            |

## Electrical Data

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