



## Brake Motors - IE3/IE2/IE1

## STANDARD EFFICIENCY MOTORS - IE1

- 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

AMBY 90S AA4 - 1.1 kW - 4 poles - 400V - 50Hz

## PERFORMANCE DATA

| Type            | AMBY 90S AA |
|-----------------|-------------|
| Poles           | 4           |
| kW              | 1.1         |
| HP              | 1.5         |
| rpm             | 1400        |
| Mn Nm           | 7.5         |
| $\eta$ 50%      | 75.8        |
| $\eta$ 75%      | 76          |
| $\eta$ 100%     | 75.4        |
| cos Phi         | 0.78        |
| $I_N$ 400 V     | 2.7         |
| $I_N$ 380-400 V | 2.9         |
| $I_A/I_N$       | 5.2         |
| $M_A/M_N$       | 2.5         |

|                                          |                       |
|------------------------------------------|-----------------------|
| <b><math>M_K/M_N</math></b>              | 2.8                   |
| <b>J 10<sup>-3</sup> kgm<sup>2</sup></b> | 2.36                  |
| <b>Mb max Nm</b>                         | 15(40) <sup>2</sup> ) |
| <b>zL <sup>1</sup>) c/h</b>              | 5000                  |
| <b>kg</b>                                | 18                    |

## Mechanical Data

|                                     |                               |
|-------------------------------------|-------------------------------|
| <b>Design</b>                       | ALUMINIUM                     |
| <b>Degree of protection</b>         | IP 55                         |
| <b>Bearings DE/NDE</b>              | 6205/2Z                       |
| <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>              | 49                            |

## 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.  |