



**Synchronous PM Motors - IE6/IE5**

**HYPER EFFICIENCY MOTORS - IE6**

- IE6 Hyper Efficiency
- The revolution in industrial efficiency
- Power, compactness and efficiency



**TECHNICAL DATA**

**Motor Type**

IE6 HPS 112 3000 159 7.5 kW - 3000 rpm - 400V - 50Hz

**PERFORMANCE DATA**

|                                       |                      |
|---------------------------------------|----------------------|
| <b>Type</b>                           | IE6 HPS 112 3000 159 |
| <b>Rated Speed rpm</b>                | 3000                 |
| <b>Rated Power kW</b>                 | 7.5                  |
| <b>Rated Power HP</b>                 | 10                   |
| <b>Rated Torque Nm</b>                | 23.9                 |
| <b>Peak torque Nm</b>                 | 71.6                 |
| <b>Voltage constant Vs</b>            | 0.87                 |
| <b>Torque constant Nm/A</b>           | 1.5                  |
| <b>B.E.M.F. @ rated speed Vrs</b>     | 272                  |
| <b>Rated current Arms</b>             | 15.9                 |
| <b>Efficiency IE code</b>             | IE6                  |
| <b>Efficiency <math>\eta</math> %</b> | 93.8                 |
| <b>Weight Kg</b>                      | 26                   |

## Mechanical Data

|                             |                               |
|-----------------------------|-------------------------------|
| <b>Design</b>               | ALUMINIUM                     |
| <b>Degree of protection</b> | IP 55                         |
| <b>Bearings DE</b>          | 6208 2Z                       |
| <b>Bearings NDE</b>         | 6306 2Z                       |
| <b>Lubrication grease</b>   | low & high temperature grease |
| <b>Regreasing device</b>    | permanent lubrication         |
| <b>Cooling</b>              | IC 411                        |
| <b>Vibration Level</b>      | A (normal)                    |
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| <b>Vibration Level</b>      | A (normal)                    |

## Electrical Data

|                              |                |
|------------------------------|----------------|
| <b>Supply Voltage</b>        | 400V - 50Hz    |
| <b>Duty type</b>             | S1             |
| <b>Insulation class</b>      | F              |
| <b>Direction of rotation</b> | bidirectional  |
| <b>Ambient temperature</b>   | -15°C / +40 °C |
| <b>Altitude</b>              | 1000 m.a.s.l.  |
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