



Synchronous PM Motor and Drive Packages - IES2

PM MOTOR WITH NDE INTEGRATED DRIVE - IES2

- Maximum integration for axial fans
- PAD mounting to optimize airflow
- Super Premium Efficiency IE5

HP Axial  IES2

TECHNICAL DATA

Motor Type

HPAX 90 750 16 0.75 kW - 750 rpm | Drive three-phase - 380-480V

PERFORMANCE DATA

|                           |                |
|---------------------------|----------------|
| Package Type              | HPAX 90 750 16 |
| Rated Speed rpm           | 750            |
| Rated Power kW            | 0.75           |
| Rated Power HP            | 1              |
| Rated Torque Nm           | 9.5            |
| Peak Torque Nm            | 14.3           |
| Rated Current Arms        | 1.6            |
| Voltage Constant Vs       | 3.46           |
| Torque Constant Nm/A      | 5.99           |
| Motor Efficiency IE code  | IE5            |
| Motor Efficiency $\eta$ % | 79.8           |
| Drive Efficiency IE code  | IE2            |
| HPI Efficiency IE code    | IES2           |

|                                           |      |
|-------------------------------------------|------|
| <b>HPI Efficiency <math>\eta</math> %</b> | 78.3 |
|-------------------------------------------|------|

## Mechanical Data

|                             |                               |
|-----------------------------|-------------------------------|
| <b>Design</b>               | ALUMINIUM                     |
| <b>Degree of protection</b> | IP 55                         |
| <b>Bearings DE</b>          | 6206 2Z                       |
| <b>Bearings NDE</b>         | 6304 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)                    |

## 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.  |

## Drive Data

|                             |                     |
|-----------------------------|---------------------|
| <b>Supply Voltage</b>       | three-phase         |
| <b>Drive Voltage</b>        | 380-480V            |
| <b>Safety Function</b>      | -                   |
| <b>Drive Torque</b>         | variable            |
| <b>Fieldbus</b>             | CANopen; Modbus RTU |
| <b>Inputs</b>               | 2 Digital; 2 Analog |
| <b>Outputs</b>              | 2 Digital; 2 Analog |
| <b>Degree of Protection</b> | IP 55               |