



## Synchronous PM Motor and Drive Packages - IES2

### PM MOTOR WITH INTEGRATED DRIVE - IES2

- Maximum integration for increasingly performance
- IE5 motor + IE2 VFD
- Combination of AC motor's reliability and Brushless Servomotor's performance

**HP Integral**  
Smart Flow Plus  
solutions to meet your needs

**IES2** 

## TECHNICAL DATA

### Motor Type

HPI 90 1800 46\_Smart 2.2 kW - 1800 rpm | Drive three-phase - 200-240V

## PERFORMANCE DATA

|                                 |                      |
|---------------------------------|----------------------|
| Package Type                    | HPI 90 1800 46_Smart |
| Rated Speed rpm                 | 1800                 |
| Rated Power kW                  | 2.2                  |
| Rated Power HP                  | 3                    |
| Rated Torque Nm                 | 11.7                 |
| Peak Torque Nm                  | 17.5                 |
| Rated Current Arms              | 4.6                  |
| Peak Current Arms               | 7.0                  |
| Rated input current 380Vac Arms | 4.9                  |
| Rated input current 480Vac Arms | 3.9                  |
| Torque Constant Nm/A            | 2.5                  |
| HPI Weight kg                   | 15.5                 |
| Motor Efficiency IE code        | IE5                  |

|                          |       |
|--------------------------|-------|
| Drive Type               | Smart |
| Drive Efficiency IE code | IE2   |
| HPI Efficiency IE code   | IES2  |
| HPI Efficiency ? %       | 89.9  |

## Mechanical Data

|                      |                               |
|----------------------|-------------------------------|
| Design               | ALUMINIUM                     |
| Degree of protection | IP 55                         |
| Bearings DE          | 6206 2Z                       |
| Bearings NDE         | 6304 2Z                       |
| Lubrication grease   | low & high temperature grease |
| Regreasing device    | permanent lubrication         |
| Cooling              | IC 411                        |
| Vibration Level      | A (normal)                    |

## Electrical Data

|                       |                |
|-----------------------|----------------|
| Supply Voltage        | 400V - 50Hz    |
| Duty type             | S1             |
| Insulation class      | F              |
| Direction of rotation | bidirectional  |
| Ambient temperature   | -15°C / +40 °C |
| Altitude              | 1001 m.a.s.l.  |

## Drive Data

|                 |                                          |
|-----------------|------------------------------------------|
| Drive Type      | Smart                                    |
| Supply Voltage  | three-phase                              |
| Drive Voltage   | 200-240V                                 |
| Safety Function | -                                        |
| Drive Torque    | constant/variable                        |
| Fieldbus        | CANopen; Modbus RTU                      |
| Inputs          | 2 Digital; 2 Analog / Digital selectable |
| Outputs         | 1 Analog/Digital; 1 Relay                |

