



## 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 4500 159\_Plus 7.5 kW - 4500 rpm | Drive three-phase - 500-600V

## PERFORMANCE DATA

| Package Type                    | HPI 90 4500 159_Plus |
|---------------------------------|----------------------|
| Rated Speed rpm                 | 4500                 |
| Rated Power kW                  | 7.5                  |
| Rated Power HP                  | 10                   |
| Rated Torque Nm                 | 15.9                 |
| Peak Torque Nm                  | 17.5                 |
| Rated Current Arms              | 15.9                 |
| Peak Current Arms               | 23.9                 |
| Rated input current 380Vac Arms | 15.9                 |
| Rated input current 480Vac Arms | 12.6                 |
| Torque Constant Nm/A            | 1.0                  |
| HPI Weight kg                   | 20.5                 |
| Motor Efficiency IE code        | IE5                  |

|                          |       |
|--------------------------|-------|
| Drive Type               | Smart |
| Drive Efficiency IE code | IE2   |
| HPI Efficiency IE code   | IES2  |
| HPI Efficiency ? %       | 90.8  |

## 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      | Plus                                                   |
| Supply Voltage  | three-phase                                            |
| Drive Voltage   | 500-600V                                               |
| Safety Function | STO/PLC                                                |
| Drive Torque    | constant/variable                                      |
| Fieldbus        | CANopen; Modbus RTU                                    |
| Inputs          | 3 Digital (+3 optional); 2 Analog / Digital selectable |
| Outputs         | 2 Analog / Digital; 2 Relays (+3 optional)             |

