

**Synchronous PM Motor and Drive Packages - IES2**

**PM MOTOR AND COMBINED DRIVE - IES2**

- Plug & Play solution
- Total speed control
- IP20 or IP66 / NEMA 4X outdoor
- Three package configurations



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

**IES2** 

**TECHNICAL DATA**

**Motor Type**

HPC 90 1800\_Flow\_IP66 2.2 kW - 1800 rpm | Drive three-phase - 500-600V

**PERFORMANCE DATA**

|   |                       |
|---|-----------------------|
| <b>Package Type</b>                         | HPC 90 1800_Flow_IP66 |
| <b>Rated Speed rpm</b>                      | 1800                  |
| <b>Rated Power kW</b>                       | 2.2                   |
| <b>Rated Power HP</b>                       | 3                     |
| <b>Rated Torque Nm</b>                      | 11.7                  |
| <b>Peak Torque Nm</b>                       | 35                    |
| <b>Voltage Constant Vs</b>                  | 1.45                  |
| <b>Torque Constant Nm/A</b>                 | 2.5                   |
| <b>B.E.M.F. @ rated speed Vrs</b>           | 272                   |
| <b>Rated Current Arms</b>                   | 4.6                   |
| <b>Motor Efficiency IE code</b>             | IE5                   |
| <b>Motor Efficiency <math>\eta</math> %</b> | 90.2                  |
| <b>Motor Weight Kg</b>                      | 14                    |

|                                 |      |
|---------------------------------|------|
| <b>Drive Type</b>               | Flow |
| <b>Drive Size</b>               | 2    |
| <b>Drive Efficiency IE code</b> | IE2  |
| <b>HPC Efficiency IE code</b>   | IES2 |
| <b>HPC Efficiency ? %</b>       | 89.6 |

## 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>Motor 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>Drive Type</b>      | Flow                     |
| <b>Drive Size</b>      | 2                        |
| <b>Supply Voltage</b>  | three-phase              |
| <b>Drive Voltage</b>   | 500-600V                 |
| <b>Safety Function</b> | STO/PLC                  |
| <b>Drive Torque</b>    | variable                 |
| <b>Fieldbus</b>        | BACnet MS/TP; Modbus RTU |

|                             |  |
|-----------------------------|--|
| <b>Inputs</b>               | 3 Digital (+3 optional); 2 Analog / Digital selectable |
| <b>Outputs</b>              | 2 Analog / Digital; 2 Relays (+3 optional)             |
| <b>Degree of Protection</b> | IP 66  |