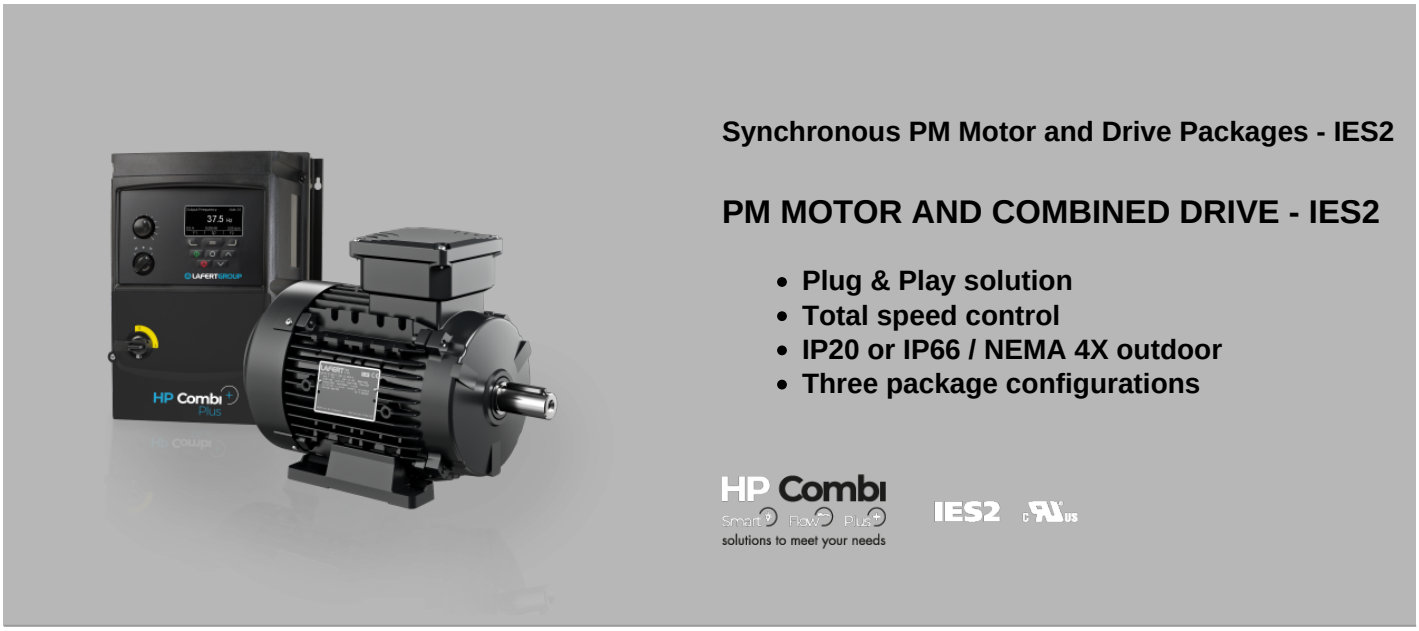
LAFERTGROUP
Member of Sumitomo Drive Technologies




**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_IP20 3 kW - 1800 rpm \| Drive three-phase - 500-600V |

# PERFORMANCE DATA

| | |
|---|---|
| **Package Type** | HPC 90 1800_Flow_IP20 |
| **Rated Speed rpm** | 1800 |
| **Rated Power kW** | 3 |
| **Rated Power HP** | 4 |
| **Rated Torque Nm** | 15.9 |
| **Peak Torque Nm** | 47.7 |
| **Voltage Constant Vs** | 1.45 |
| **Torque Constant Nm/A** | 2.5 |
| **B.E.M.F. @ rated speed Vrs** | 272 |
| **Rated Current Arms** | 6.3 |
| **Motor Efficiency IE code** | IE5 |
| **Motor Efficiency $\eta$ %** | 91.0 |
| **Motor Weight Kg** | 17 |

| | |
|---|---|
| **Drive Type** | Flow |
| **Drive Size** | 2 |
| **Drive Efficiency IE code** | IE2 |
| **HPC Efficiency IE code** | IES2 |
| **HPC Efficiency ? %** | 89.2 |

## 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

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

## Drive Data

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

| | |
|---|---|
| **Inputs** | 3 Digital (+3 optional); 2 Analog / Digital selectable |
| **Outputs** | 2 Analog / Digital; 2 Relays (+3 optional) |
| **Degree of Protection** | IP 20 |