

## 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 4500\_Flow\_IP20 3 kW - 4500 rpm | Drive three-phase - 380-480V

## PERFORMANCE DATA

Package Type	HPC 90 4500_Flow_IP20
Rated Speed rpm	4500
Rated Power kW	3
Rated Power HP	4
Rated Torque Nm	6.4
Peak Torque Nm	19.1
Voltage Constant Vs	0.58
Torque Constant Nm/A	1.00
B.E.M.F. @ rated speed Vrs	272
Rated Current Arms	6.4
Motor Efficiency IE code	IE5
Motor Efficiency $\eta$ %	88.9
Motor Weight Kg	12

<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>	87.1

## 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>	380-480V
<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 20