



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

## PERFORMANCE DATA

Package Type	HPI 90 4500 159_Flow
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

<b>Drive Type</b>	Flow
<b>Drive Efficiency IE code</b>	IE2
<b>HPI Efficiency IE code</b>	IES2
<b>HPI Efficiency ? %</b>	90.9

## 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>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>	1001 m.a.s.l.

## Drive Data

<b>Drive Type</b>	Flow
<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)

