



## 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 - 200-240V

## PERFORMANCE DATA

<b>Package Type</b>	HPI 90 4500 159_Flow
<b>Rated Speed rpm</b>	4500
<b>Rated Power kW</b>	7.5
<b>Rated Power HP</b>	10
<b>Rated Torque Nm</b>	15.9
<b>Peak Torque Nm</b>	17.5
<b>Rated Current Arms</b>	15.9
<b>Peak Current Arms</b>	23.9
<b>Rated input current 380Vac Arms</b>	15.9
<b>Rated input current 480Vac Arms</b>	12.6
<b>Torque Constant Nm/A</b>	1.0
<b>HPI Weight kg</b>	20.5
<b>Motor Efficiency IE code</b>	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>	200-240V
<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)

