



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 4 kW - 4500 rpm | Drive three-phase - 500-600V

PERFORMANCE DATA

Package Type	HPC 90 4500_Flow_IP20
Rated Speed rpm	4500
Rated Power kW	4
Rated Power HP	5.5
Rated Torque Nm	8.5
Peak Torque Nm	25.5
Voltage Constant Vs	0.58
Torque Constant Nm/A	1.00
B.E.M.F. @ rated speed Vrs	272
Rated Current Arms	8.5
Motor Efficiency IE code	IE5
Motor Efficiency η %	90.7
Motor Weight Kg	14

Drive Type	Flow
Drive Size	2
Drive Efficiency IE code	IE2
HPC Efficiency IE code	IES2
HPC Efficiency ? %	88.9

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