



**Synchronous PM Motors - IE6/IE5**

**ULTRA PREMIUM EFFICIENCY MOTORS - IE5**

- IE5 Ultra Premium Efficiency
- Combination of AC motor's reliability and Brushless Servomotor's performance
- High runners always in stock

**IE5** 

**TECHNICAL DATA**

**Motor Type**

IE5 HPS 90 4500 85 4 kW - 4500 rpm - 400V - 50Hz

**PERFORMANCE DATA**

<b>Type</b>	IE5 HPS 90 4500 85
<b>Rated Speed rpm</b>	4500
<b>Rated Power kW</b>	4
<b>Rated Power HP</b>	5.5
<b>Rated Torque Nm</b>	8.5
<b>Peak torque Nm</b>	25.5
<b>Voltage constant Vs</b>	0.58
<b>Torque constant Nm/A</b>	1
<b>B.E.M.F. @ rated speed Vrs</b>	272
<b>Rated current Arms</b>	8.5
<b>Efficiency IE code</b>	IE5
<b>Efficiency <math>\eta</math> %</b>	90.7
<b>Weight Kg</b>	14

## 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>	1000 m.a.s.l.