



**Synchronous PM Motors - IE6/IE5**

**HYPER EFFICIENCY MOTORS - IE6**

- IE6 Hyper Efficiency
- The revolution in industrial efficiency
- Power, compactness and efficiency

**IE6** 

**TECHNICAL DATA**

**Motor Type**

IE6 HPS 90 4500 85 4 kW - 4500 rpm - 400V - 50Hz

**PERFORMANCE DATA**

<b>Type</b>	IE6 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>	IE6
<b>Efficiency <math>\eta</math> %</b>	92.4
<b>Weight Kg</b>	17

## 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)
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## 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.
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