



## 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 64 3 kW - 4500 rpm - 400V - 50Hz

## PERFORMANCE DATA

| Type                       | IE5 HPS 90 4500 64 |
|----------------------------|--------------------|
| Rated Speed rpm            | 4500               |
| Rated Power kW             | 3                  |
| Rated Power HP             | 4                  |
| Rated Torque Nm            | 6.4                |
| Peak torque Nm             | 19.1               |
| Voltage constant Vs        | 0.58               |
| Torque constant Nm/A       | 1                  |
| B.E.M.F. @ rated speed Vrs | 272                |
| Rated current Arms         | 6.4                |
| Efficiency IE code         | IE5                |
| Efficiency $\eta$ %        | 88.9               |
| Weight Kg                  | 12                 |

# 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

|                       |                |
|-----------------------|----------------|
| 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.  |