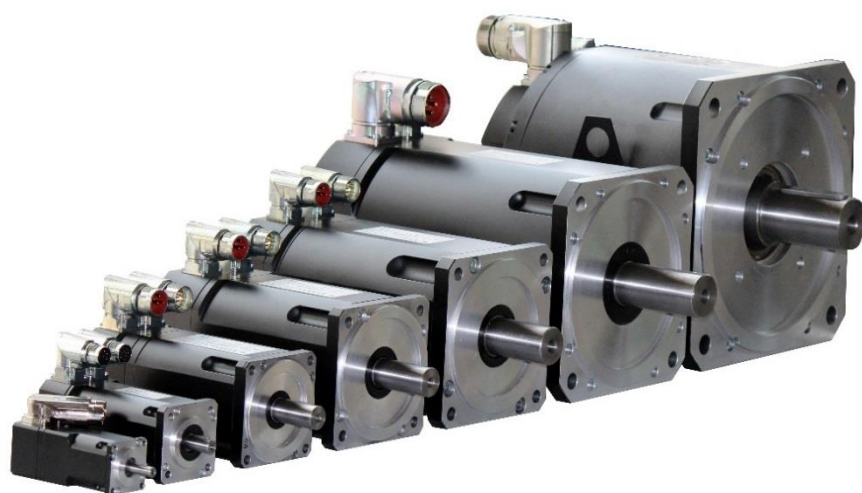


# SANGALLI SERVOMOTORI



## DSM5

Brushless Servomotors

## DSM5 Brushless Servomotors

DSM5 Serie Brushless Servomotors are AC PMSM equipped with last generation magnet. The use of high quality materials allows to obtain high Volume/Torque ratio and provides excellent dynamic performances with low torque ripple. The main characteristics of the DSM5 servomotors are :

- Rare earth magnets for high temperature
- 8 Poles construction
- Sinusoidal Bemf
- Integrated Thermal Protection with PTC
- Top selling motors compatibles
- **CE & RoHS**
- 90° angled rotatable connectors
- Compact design, low weight, smooth surface
- Available with main existing feedback
- Available: special winding, shaft and flange
- Servo-ventilated & water-cooled version are also available
- Low cogging & Low ripple



### **SIZE 0**

Torque from 0.19 to 0.38 Nm

Side 40 mm



### **SIZE 2**

Torque from 0.7 to 1.4 Nm

Side 60 mm



### **SIZE 3**

Torque from 1.5 to 5.3 Nm

Side 85 mm



### **SIZE 4**

Torque from 4 to 11.3 Nm

Side 115 mm



### **SIZE 5**

Torque from 10 to 48 Nm

Side 142 mm



### **SIZE 6**

Torque from 15 to 98 Nm

Side 190 mm



### **SIZE 7**

Torque from 76 to 320 Nm

Side 260 mm

## Compact Servomotors

**DSM5 length Zero** AC Synchronous motors. Equipped with last generation magnets they have small dimensions and compact design. Very high ratio torque/volume and very excellent dynamic performances with low torque ripple.

The shorter dimensions and the high inertia make them be the best solution in those applications where these characteristics are essential.

Their main characteristics are:

- Rare earth magnets for high temperatures
- 8 poles construction
- High Inertia
- Reduced length and compact design
- Sinusoidal BEMF
- Integrated thermal protection with PTC
- Connectors Output
- Compact Design, High protection, smooth surface

**From 1 to 8 Nm Torque – from 85 mm to 190 mm frame**



## High Torque Servomotor

**DSM5 Size 8 Torque Servomotors** are AC SPM Synchronous Motors. They are equipped with high temperature quality magnets and low losses lamination.

They have a very low cogging and therefore they are suitable for high demanding applications.

Their main characteristics are:

- Rare earth magnets for high temperature
- **16 poles** construction, Sinusoidal BEMF
- Double Integrated Thermal Protection
- Connectors or Plug panel Output
- Compact design, smooth surface
- Low Torque Ripple
- High efficiency
- Forced-ventilated or Water-cooled versions
- Hollow Shaft version

**From 125 to 800 Nm Torque – Ø 320 mm**



## IE4 High Efficiency Synchronous Motor

**ECOPM Synchronous Motors** the High efficiency makes them compatible with current and future Energy saving regulations. Their efficiency classification exceeds the standard defined by 64030-31 regulation as IE4 premium.

ECOPM motors can only work with inverter.

- Standard MEC frame
- Sensorless
- Servo or self ventilated

**From MEC56 to MEC132 - 0,37Kw to 15Kw**



## Spindle & Torque Direct Drive Motors

- High energy magnets with epoxy protection
- SPM or IPM solution
- Flux weakening
- FEA analysis
- High speed & High torque application
- Water cooled
- Stator encapsulation
- Frameless
- High speed

**From 38 mm to 760 mm External Diameter**



# SANGALLI SERVOMOTORI



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- DSM5 Brushless Servomotors
- DSG synchronous PM generators
- Rare earth SC DC servomotors
- DSW water-cooled
- Low-cost solutions
- Planetary gears
- Customised solutions
- Torque motors
- Frameless spindle motors



ISD : E220486