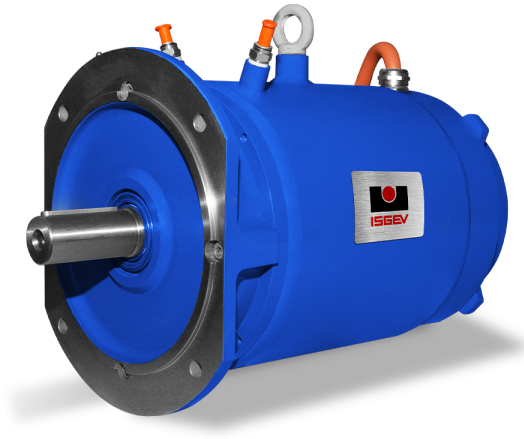


# WATER JACKET MOTORS



<b>Power outputs</b>	5,5 - 13kW
<b>Voltages</b>	690V
<b>Frames</b>	132 - 160
<b>Efficiency classes</b>	IE3, where applicable
<b>Sectors</b>	Food / Industrial / Plastic and Rubber / Steel Industry
<b>Most common applications</b>	Machine tools / Handling and Lifting Systems

These motors best fit in:

- environments with a high percentage of airborne material (steelworks, paper mills, rubber or plastic plants, etc.).

The operation of this type of motors is not affected by possible deposits of material on the motor itself, as cooling is guaranteed by a water circulation system.

- limited installation spaces

The effectiveness of the cooling system and the absence of external ventilation allow very compact products with a power output higher than traditional solutions.

- silent environments

The noise levels achieved by these motors are considerably lower than those of traditional motors of similar power.

- High ambient temperatures

The water-cooled solution is the most suitable in installations where ambient temperature is too high to allow external ventilation.

## > 5BW MOTOR SERIES

<b>Standards</b>	IEC EN 60034 / IEC EN 60072
<b>Polarity / Speed</b>	Single / Typically 1000 - 1200 - 1500 - 1800rpm
<b>Cooling method</b>	IC71W
<b>IP Index of Protection</b>	IP55
<b>Insulation Class</b>	F
<b>Temperature rise Class</b>	B
<b>Bearings</b>	Ball
<b>Cuscinetti</b>	2RS C3 high performance
<b>Power supply</b>	Main / Frequency converter
<b>Cooling water</b>	Fresh water
<b>Duty</b>	S1
<b>Ambient temperature</b>	0°C / +40°C
<b>Material of the case</b>	Welded steel with internal anti-rust treatment
<b>Shaft extension</b>	D-End
<b>Shape of the shaft extension</b>	Cylindric, with key
<b>Material of the shaft</b>	Steel C40
<b>Vibration grade</b>	A
<b>Mountings</b>	With feet and/or flange / horizontal and vertical

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Feet

Fixed

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**SPECIAL SOLUTIONS**

### **Windings**

Insulation class H  
Tropicalisation  
Stator windings with enhanced insulation system for inverter  
Special voltage and/or frequency  
Double impregnation  
Encapsulation of the windings

### **Protections**

Bi-metal protection  
PTC Thermistors  
PT100 Thermo-resistances  
PT1000 Thermo-resistances  
Anticondensation heaters

### **Transducers**

Arrangement for vibration detector  
Encoder

### **Painting and solutions for extreme environment**

Special painting colour (std RAL5010)  
Special painting process for aggressive environment  
Drainage hole  
Solutions for high temperatures ( up to

### **Bearings**

Sealed bearings  
Roller bearings  
Hybrid bearings  
Bearings for high temperatures  
Re-greasing systems  
D-End fixed bearing  
Rotating labyrinth  
Viton ring  
Silicon ring

### **Albero e ventola**

Special shaft extension and/or spacial flange  
Second shaft extension  
Vibration grade B (with half or full key)

### **Terminal box**

Special cableglands  
Special terminal box



+120°C)

IP56, IP65, IP66 protection degrees