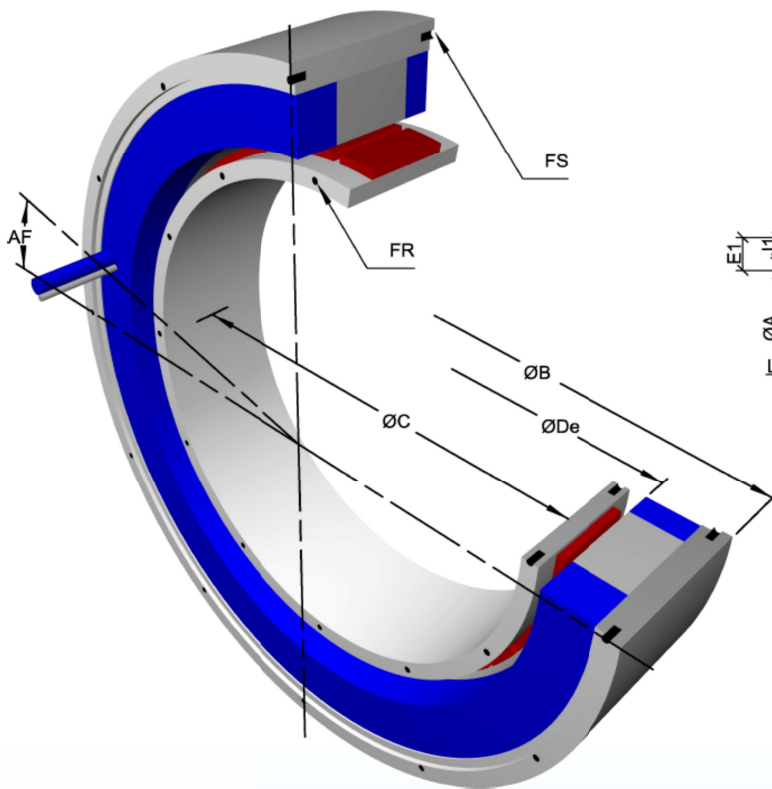
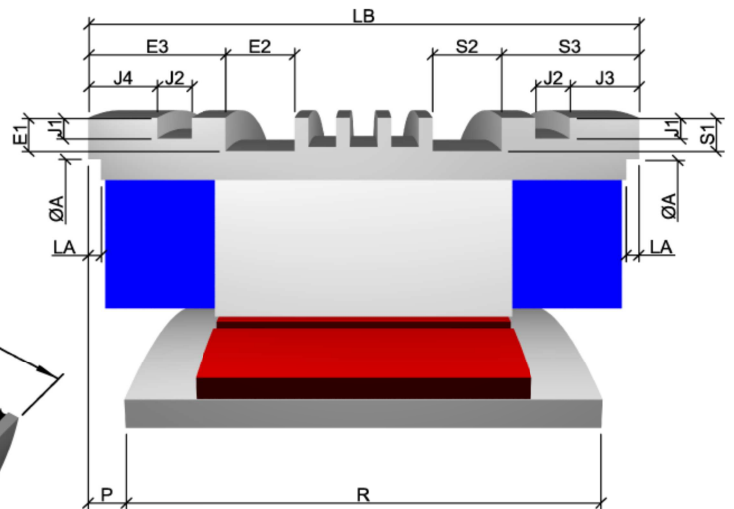


Natural convection



Fluid cooling



DIMENSIONS FOR ALL 190 STK

| | | |
|--|---------|---------------|
| Housing internal centering diameter | A H8 | 172 |
| Angle wire output / tapped holes | AF | 22°30' |
| Housing external centering diameter (fluid cooling) | B f8 | 193 |
| Housing external centering diameter (natural convection) | B f8 | 190 |
| Rotoric internal centering diameter | C H7 | 72 |
| Housing internal diameter | De | 98 |
| Depth of fluid front input / output groove | E1 | 3 |
| Width of fluid front input / output groove | E2 | 11.7 |
| Position of fluid front I/O groove | E3 | 15.5 (45.5) |
| Rotoric fixation holes | FR | 8xM5 sur Ø80 |
| Housing fixation holes | FS | 8xM5 sur Ø180 |
| O-ring groove depth | J1 | 2.3 |
| O-ring groove width | J2 | 4 |
| Position of rear o-ring groove | J3 | 5 |
| Position of front o-ring groove | J4 | 10 (40) |
| Depth of housing internal centering diameter | LA | 2 |
| Alignment rotor / housing | P ± 0.1 | 23 (53) |
| Maximum rotoric contact diameter | Pmax | 94 |
| Depth of fluid rear I/O groove | S1 | 3 |
| Width of fluid rear I/O groove | S2 | 11.7 |
| Position of fluid rear I/O groove | S3 | 10.5 |

DIMENSIONS ACCORDING TO SIZE

| | | 190S TK1M | 190S TK2M | 190S TK3M | 190S TK4M | 190S TK5M | 190S TK6M | 190S TK7M | 190S TK8M |
|----------------|-----------|--------------------|--------------|--------------------|------------------|--------------------|--------------|--------------------|------------------|
| Housing length | LB ± 0.15 | 103.75 (133.75) | 140 (175) | 176.25 (206.25) | 212.5 (242.5) | 248.75 (278.75) | 285 (315) | 321.25 (351.25) | 357.5 (387.5) |
| Rotor length | R + 0.15 | 68.25 | 104.5 | 140.75 | 177 | 213.25 | 249.5 | 285.75 | 322 |

The dimensions in red in the table are valid in the case of a rated current greater than 53 A and class 6 shielded cable output

We also offer the possibility of not shielded output wires without need of stator length increase.

INTEGRATION:

- ✓ The cables are made of PU, class 6, foreseen for cable-bearing chains, 2 mt standard length, copper square section according rated current.
- ✓ Rotor / housing alignment (P) has to be executed within +/- 0.1 mm. Optionally, we can supply a mounting tool for achieving that alignment in case of assembly without possibility of accurate alignment.
- ✓ Thermal devices cable consists of 2 shielded pairs 2x2x0.25mm² section, 7 mm max external diameter.
- ✓ (De) represents:
 - 1- The maximum diameter passing inside the housing.
 - 2- The minimum diameter necessary for rotor assembly.
- ✓ (Pmax) diameter for pieces in contact with the rotor must never be exceeded.
- ✓ Tapped holes on each side of rotor and housing are angularly aligned.
- ✓ Cable positioning (AF) is theoretical. Leave a free room with a +/- 10 arc degrees tolerance around that position, on a 50 mm height from the housing side, for avoiding to stress the cables at the motor output.
Do not tighten, twist or bend the power cable on the first 50 mm from motor side. Clamp the power cable after those 50 mm.
- ✓ When designing the assembly, take care to insure a perfect contact between housing and user's bore for avoiding thermal problems.
- ✓ For housing mounting, use either external centering diameter (B) or internal centering diameters (A).
- ✓ For execution tolerances (perpendicularity, concentricity...), please consult us.
- ✓ Fluid input and output pipes have to be placed at the opposite of wire outputs on the same axial plane.
- ✓ O-ring grooves designed for 3 mm diameter o-rings.

A full integration handbook can be supplied to our customers upon request

For further information or specific request about our motors, feel free to contact us.