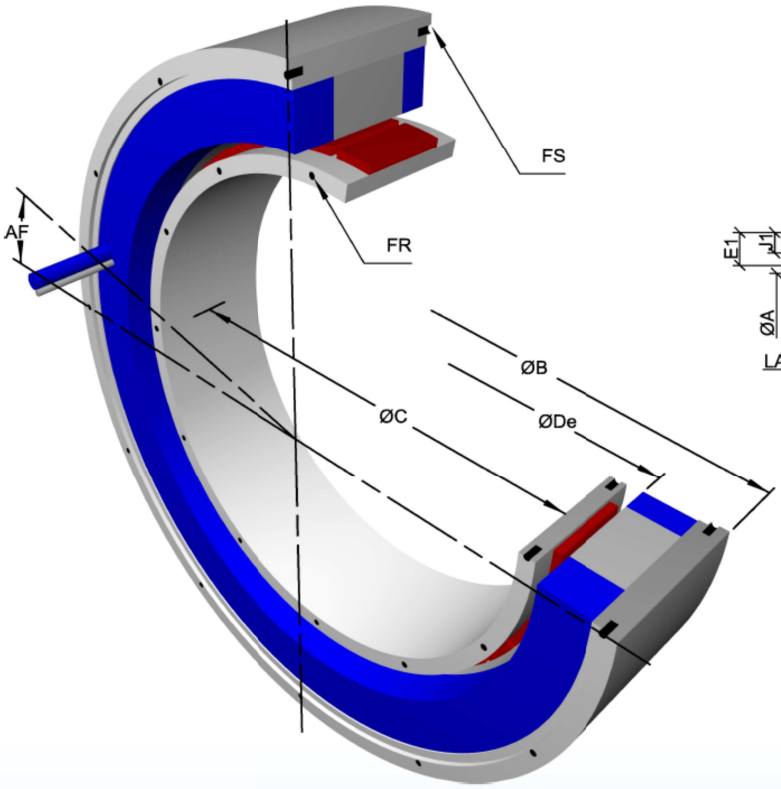
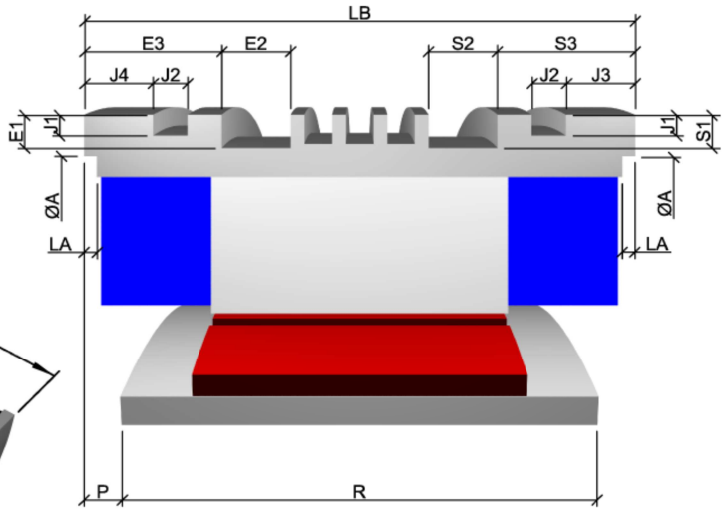
Natural convection



Fluid cooling



DIMENSIONS FOR ALL 300 STK		
Housing internal centering diameter	A H8	282
Angle wire output / tapped holes	AF	15°
Housing external centering diameter (fluid cooling)	B f8	303
Housing external centering diameter (natural convection)	B f8	303
Rotoric internal centering diameter	C H7	190
Housing internal diameter	De	228
Depth of fluid front input / output groove	E1	4
Width of fluid front input / output groove	E2	12
Position of fluid front I/O groove	E3	20 (50)
Rotoric fixation holes	FR	12xM5 sur Ø199
Housing fixation holes	FS	12xM5 sur Ø290
O-ring groove depth	J1	2.3
O-ring groove width	J2	4
Position of rear o-ring groove	J3	9
Position of front o-ring groove	J4	11.5 (41.5)
Depth of housing internal centering diameter	LA	3
Alignment rotor / housing	P ± 0.1	34.5 (64.5)
Maximum rotoric contact diameter	Pmax	213
Depth of fluid rear I/O groove	S1	4
Width of fluid rear I/O groove	S2	10
Position of fluid rear I/O groove	S3	18

DIMENSIONS ACCORDING TO SIZE		300STK1M	300STK2M	300STK3M	300STK4M	300STK5M	300STK6M	300STK7M	300STK8M
Housing length	LB±0.15	87.5 (117.5)	115 (145)	142.5 (172.5)	170 (200)	197.5 (227.5)	225 (255)	252.5 (282.5)	280 (310)
Rotor length	R +0.15	27.5	55	82.5	110	137.5	165	192.5	220

The dimensions in red in the table are valid in the case of a rated current greater than 38 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.