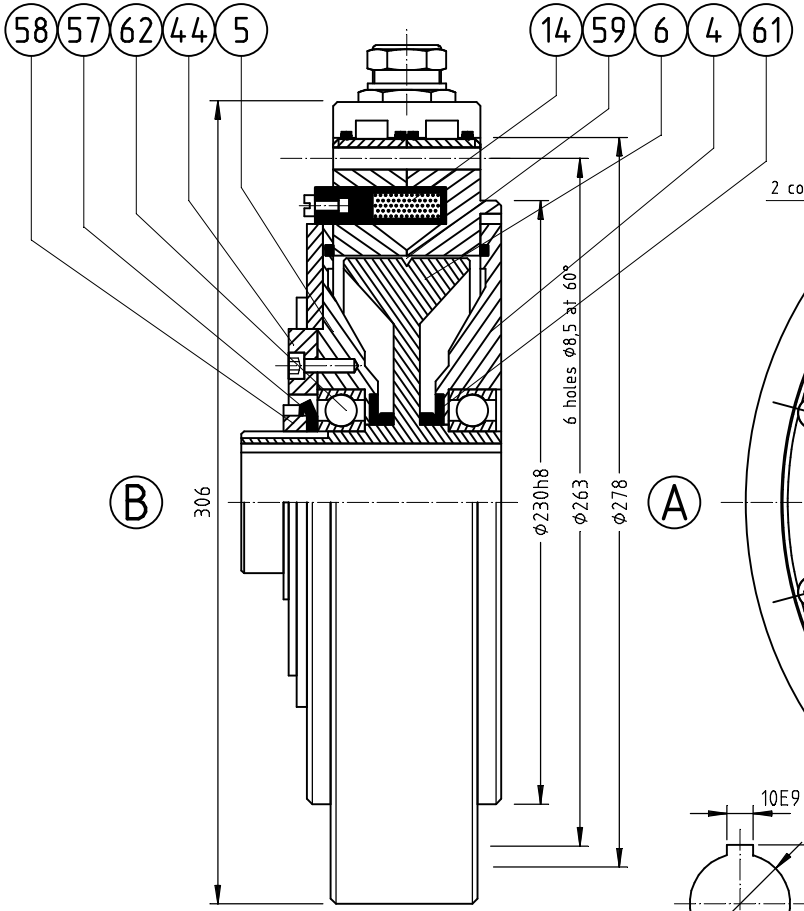

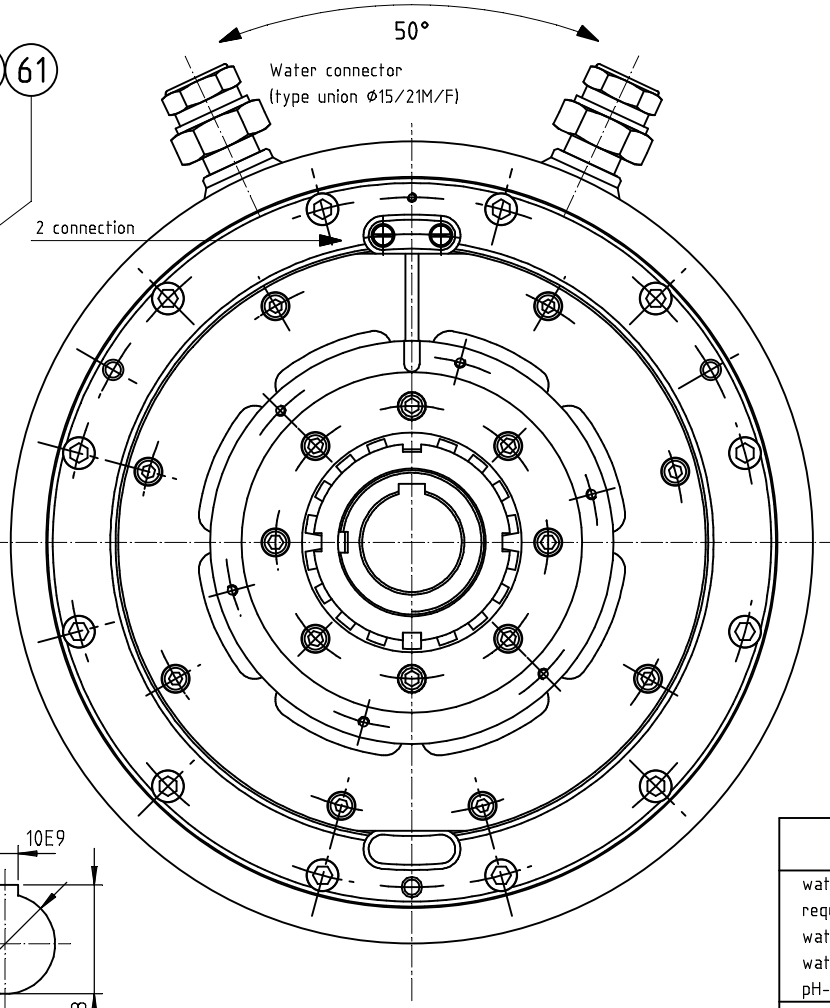

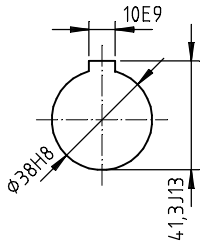

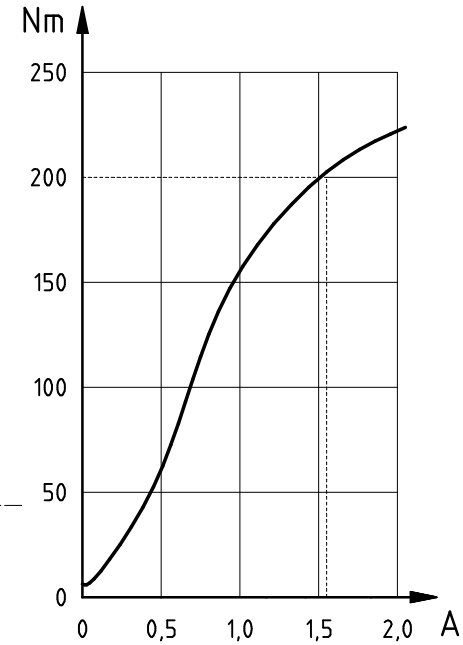

In order to avoid magnetic leakage flux and to achieve a good heat removal, non-ferrous metals should be used for installation or attachment of auxiliary components (not for drive shaft).

dimensions and specifications subjekt to change

Only applicable for horizontal shaft position !

rated torque	residual torque	field values			resistance at 20°C	operating times		axial force is inadmissible			admissible max. radial force N		weight
		maximum values		rated current				max. admissible power loss			mass moment of inertia		
								0 min^{-1}	1000 min^{-1}	2000 min^{-1}	ext. rotor	int. rotor	
M_{max}[Nm]	M_{res} [Nm]	P [W]	U [V]	I_N [A]	R [Ω]	t_{on} [ms]	t_{off} [ms]	P_V [W]	P_V [W]	P_V [W]	J [kgm^2]	J [kgm^2]	m [kg]
200	2,0	55	24	1,55	11	1100	1000	2500	-	-	-	$35{,}2 \cdot 10^{-3}$	28

Wie recommend the use of a flow indicator to control the cooling water		
water cooling required volume of water: V= 2 l/min water temperature 18° C water pressure app 3 bar pH- value < 8		
item	amount	parts
4	1	bearing shell side "A"
5	1	bearing shell side "B"
44	1	bearing cover side "B"
6	1	internal rotor
14	1	field coil 24 VDC
57	1	retaining ring for hollow shaft (rotor)
58	1	threaded nut for hollow shaft (rotor)
59	-	air gap for magnetic powder
61	2	V- ring seal
62	2	ball bearing

c				Datum	28.04.2005	Zeichnungsnummer/ drawing number	LIEDTKE Antriebstechnik	Type : FRATO 2002 330 240 00 watercooling	Komm.Nr
b				Bearb.	PAR	7.1098E			
a		07.07.2010	PAR	Gepr.					Magnetic-particle brake-FRATO2002
	Änderung	Datum	Name	Norm		Einbauort: / Ersatz fuer:	Ursprung: 09.08.2011		Blatt 3 / 1 Bl.