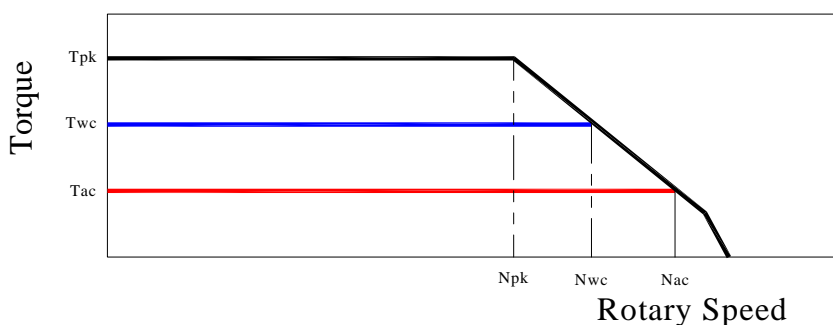


TORQUE MOTOR - MK-CI 290-070 WA

Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	T _{pk}	Nm	646
Continuos Torque (Water Cooling Dt100)	T _{wc}	Nm	322
Continuos Torque (Air Cooling Dt100)	T _{ac}	Nm	132
Stall Torque (Water Cooling)	T _{wsc}	Nm	246
Stall Torque (Air Cooling)	T _{sac}	Nm	101
Ripple Torque (Cogging Torque)	T _r	Nm	2,8
Power Loss at T _{wc}	P _{wc}	Kw	3
Power Loss at T _{ac}	P _{ac}	Kw	0,55
Termal Resistance Water Cooling	R _{thWc}	Kw	0,04
Termal Resistance Air Cooling	R _{thAc}	Kw	0,22
Torque Constant	K _t	Nm/a	15,9
Back EMF Constant	K _e	V/1000 Rpm	975
Maximum Speed at I _{pk} at 600 Vdc	N _{pk}	rpm	130
Maximum Speed at I _{wc} at 600 Vdc	N _{wc}	rpm	310
Maximum Speed at I _{ac} at 600 Vdc	N _{ac}	rpm	390
Winding Resistance (Phase to Phase)	R ₂₀	Ω	3,44
Winding Inductance (Phase to Phase)	L	mh	10,5
Peak Current	I _{pk}	Arms	58
Continuos Current (Water Cooling Dt100)	I _{wc}	Arms	20,5
Continuos Current (Air Cooling Dt100)	I _{ac}	Arms	8,5
Stall Current at 0 Speed (Water Cooling)	I _{wsc}	Arms	15,7
Stall Current at 0 Speed (Air Cooling)	I _{sac}	Arms	6,5
Maximum Winding Temperature		°C	130
Height of Rotor		mm	70
Height of Stator		mm	110
Stator jacket outer diameter		mm	310

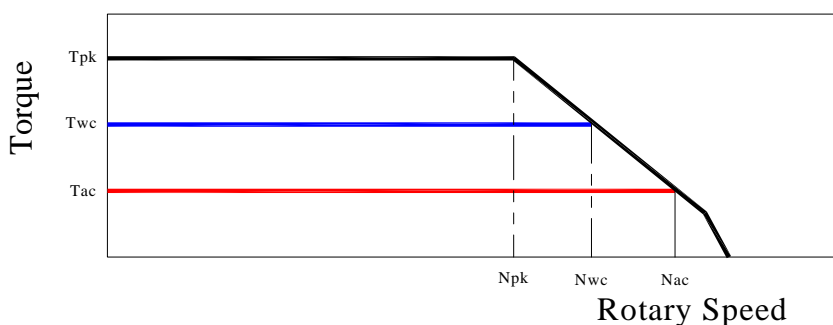
Torque diagram

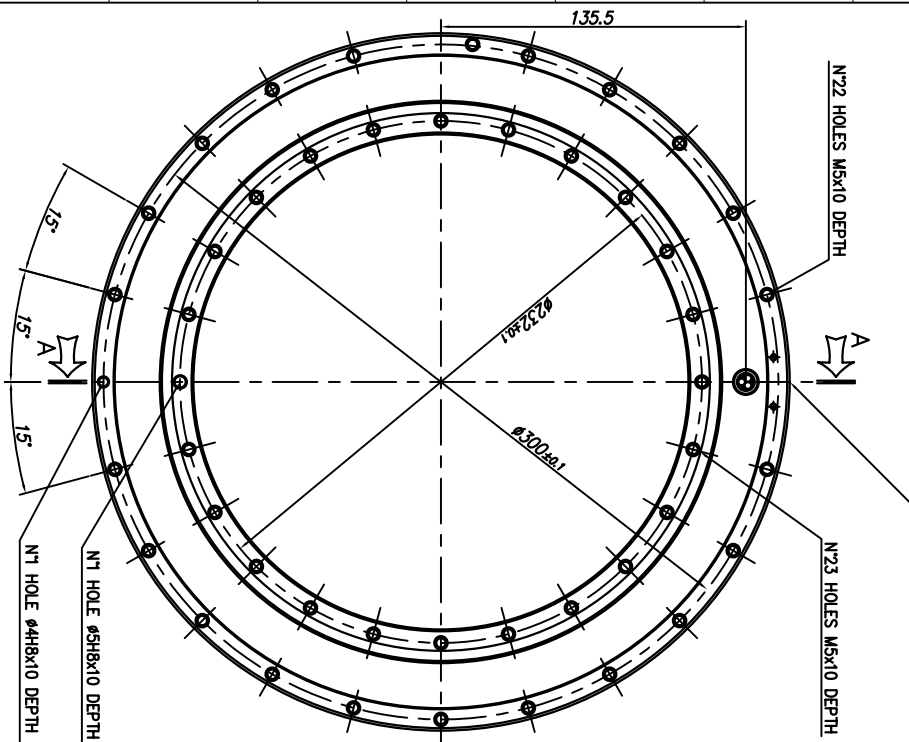


TORQUE MOTOR - MK-CI 290-070 WB

Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	T _{pk}	Nm	606
Continuos Torque (Water Cooling Dt100)	T _{wc}	Nm	320
Continuos Torque (Air Cooling Dt100)	T _{ac}	Nm	132
Stall Torque (Water Cooling)	T _{wsc}	Nm	244
Stall Torque (Air Cooling)	T _{sac}	Nm	101
Ripple Torque (Cogging Torque)	Tr	Nm	2,8
Power Loss at T _{wc}	P _{wc}	Kw	3
Power Loss at T _{ac}	P _{ac}	Kw	0,55
Termal Resistance Water Cooling	R _{thWc}	Kw	0,04
Termal Resistance Air Cooling	R _{thAc}	Kw	0,22
Torque Constant	K _t	Nm/a	9,5
Back EMF Constant	K _e	V/1000 Rpm	579
Maximum Speed at I _{pk} at 600 Vdc	N _{pk}	rpm	300
Maximum Speed at I _{wc} at 600 Vdc	N _{wc}	rpm	575
Maximum Speed at I _{ac} at 600 Vdc	N _{ac}	rpm	700
Winding Resistance (Phase to Phase)	R ₂₀	Ω	1,2
Winding Inductance (Phase to Phase)	L	mh	3,7
Peak Current	I _{pk}	Arms	92
Continuos Current (Water Cooling Dt100)	I _{wc}	Arms	34,3
Continuos Current (Air Cooling Dt100)	I _{ac}	Arms	14,6
Stall Current at 0 Speed (Water Cooling)	I _{wsc}	Arms	26,2
Stall Current at 0 Speed (Air Cooling)	I _{sac}	Arms	11,1
Maximum Winding Temperature		°C	130
Height of Rotor		mm	70
Height of Stator		mm	110
Stator jacket outer diameter		mm	310

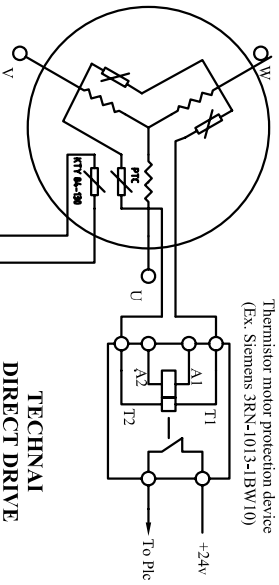
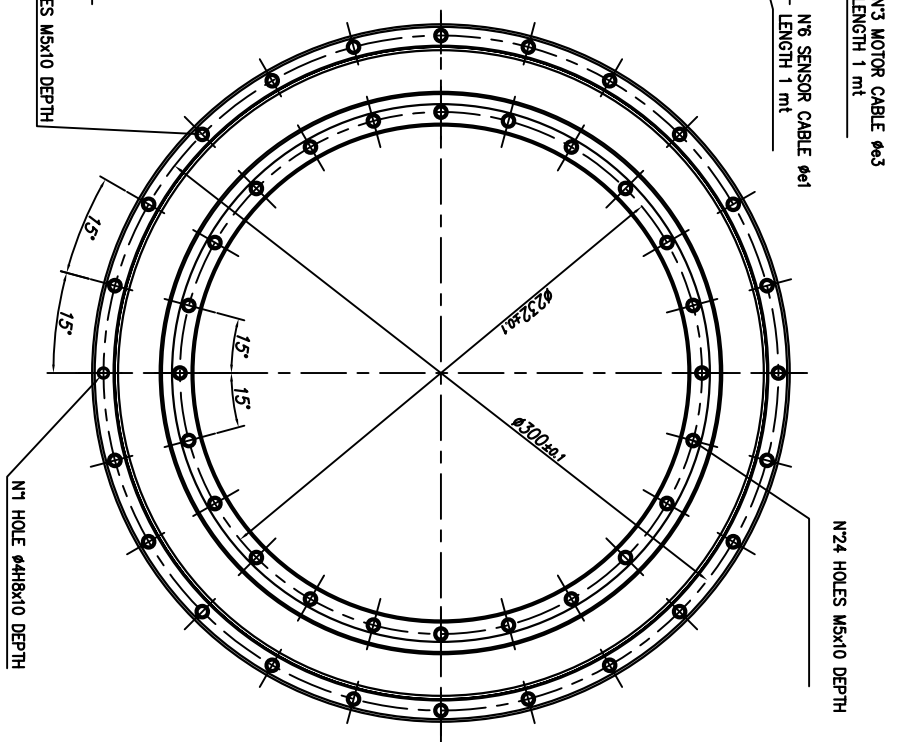
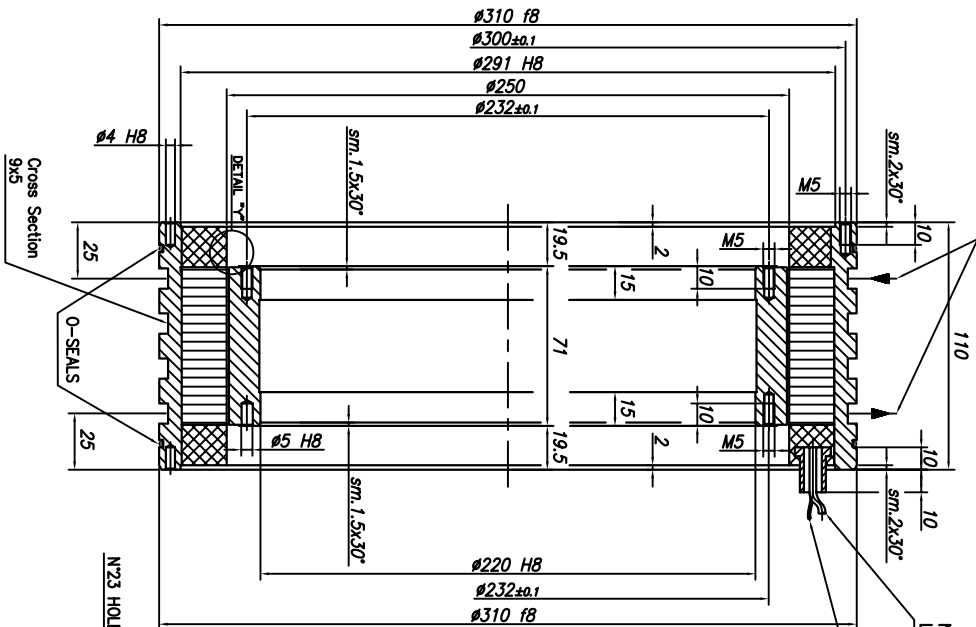
Torque diagram



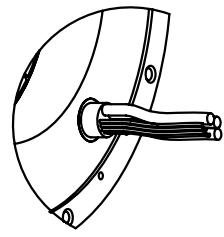


Water Cooling IN
Water Cooling OUT

SECTION "A-A"

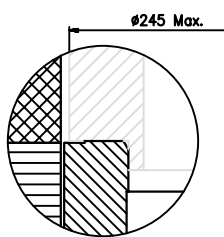


CABLE OUTPUT
CONFIGURATION



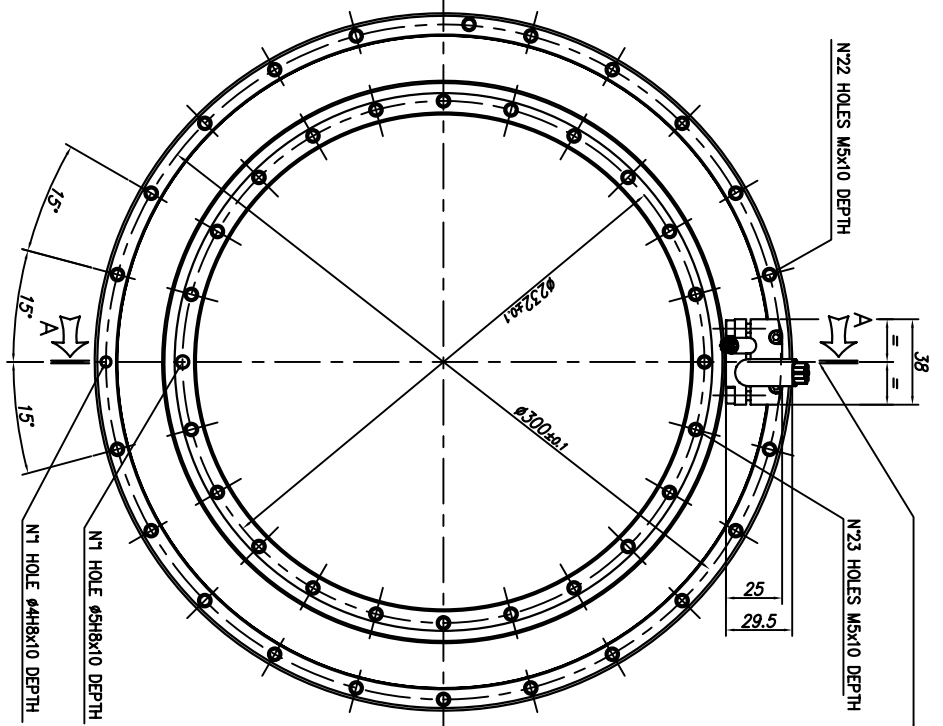
DETAIL "y"

ROTOR INTERFAC
TO
CUSTOMER SHAFT



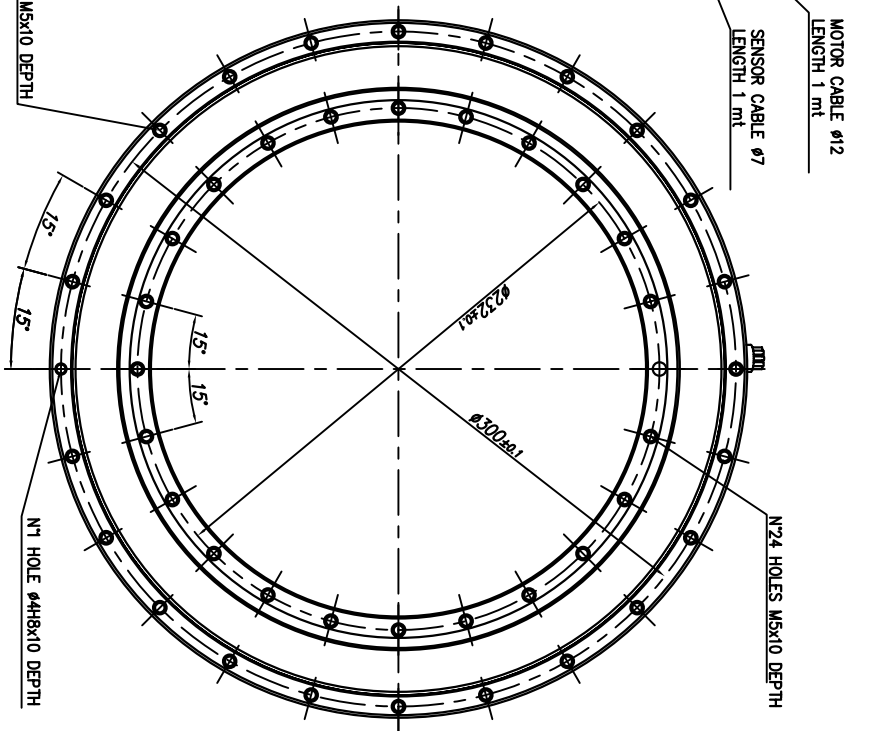
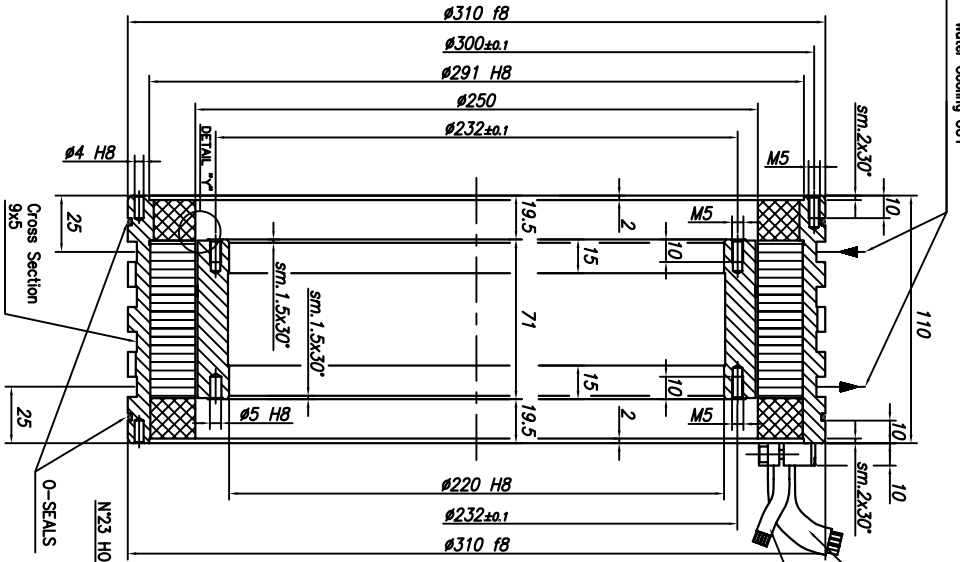
GENERAL ASSEMBLY	
ITEM	DESCRIPTION
1	ROTOR-STATOR KIT MK-CI 290
2	MK-CI 290-070 M/F
<p>TECHNAL</p> <p>1.9.1</p>	

Proprietà esclusiva di TECHNAL Termi s.r.l. - Reproduzione e diffusione vietata, senza autorizzazione scritta.

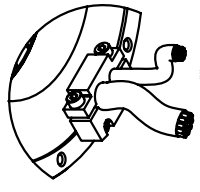
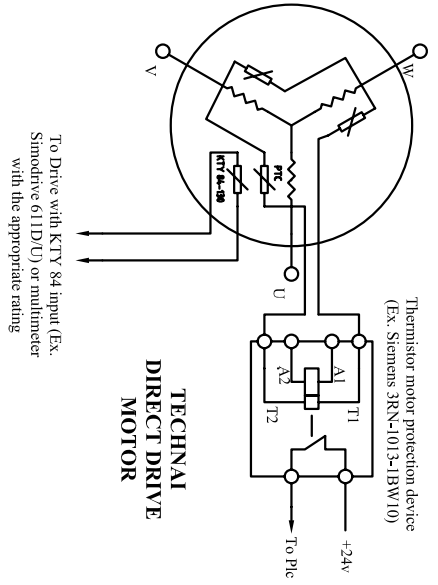
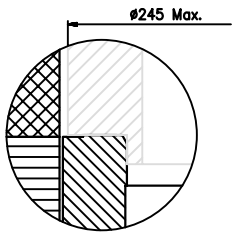


Water Cooling IN
Water Cooling OUT

SECTION "A-A"



DETAIL "Y"
ROTOR INTERFACE TO
CUSTOMER SHAFT

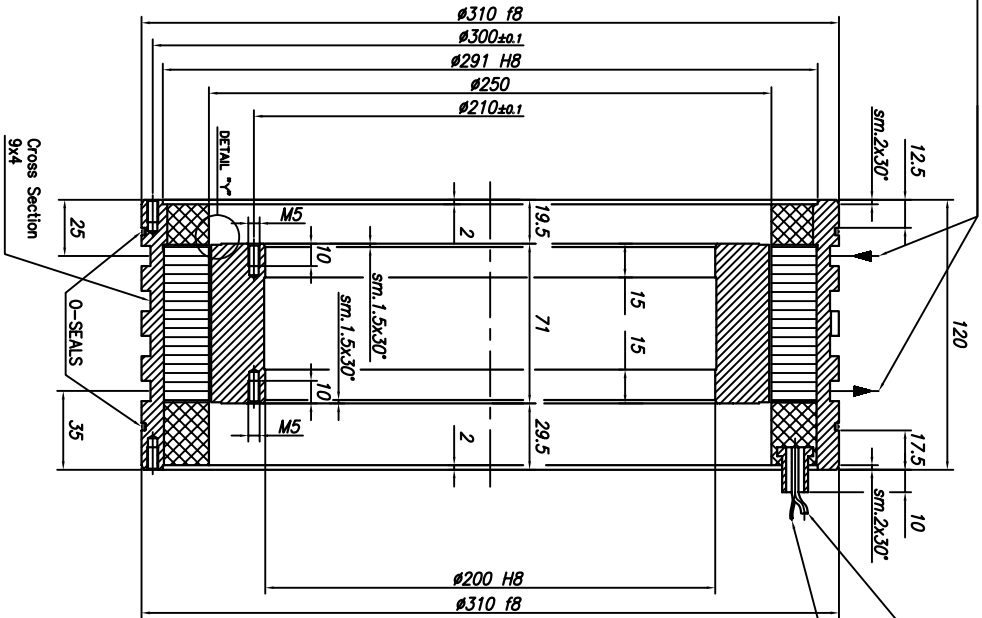
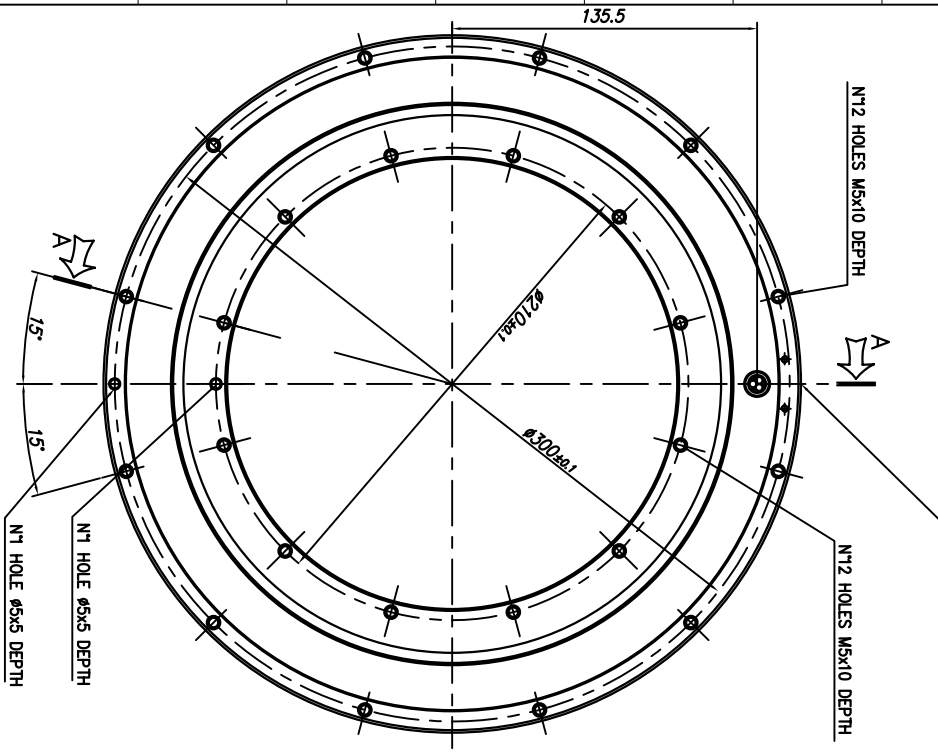


GENERAL ASSEMBLY	
ITEM	DESCRIPTION
1	ROTOR-STATOR KIT MK-CI 290
2	MK-CI 290-070 MP
1 1/1 1 1/1	

Proprietà esclusiva di TECNAI Termi s.r.l. - Riproduzione e diffusione vietata, senza autorizzazione scritta.

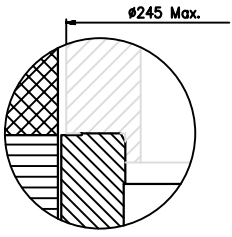
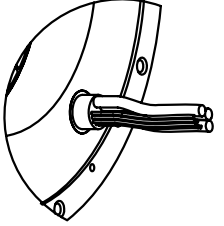
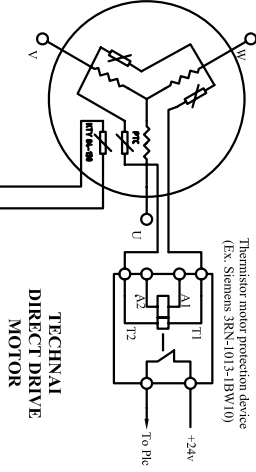
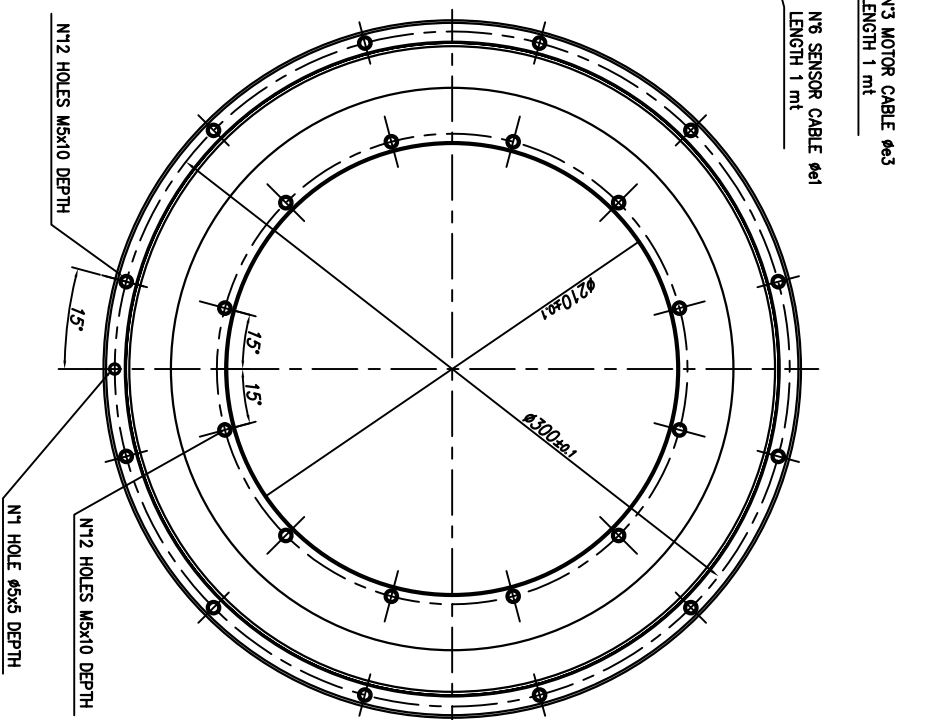
Water Cooling IN
Water Cooling OUT

SECTION "A-A"



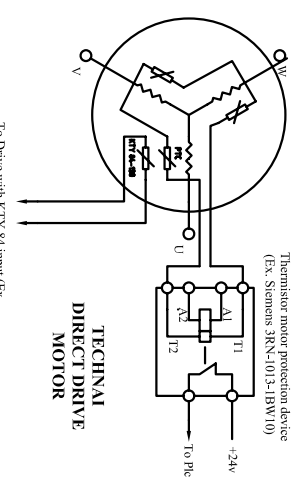
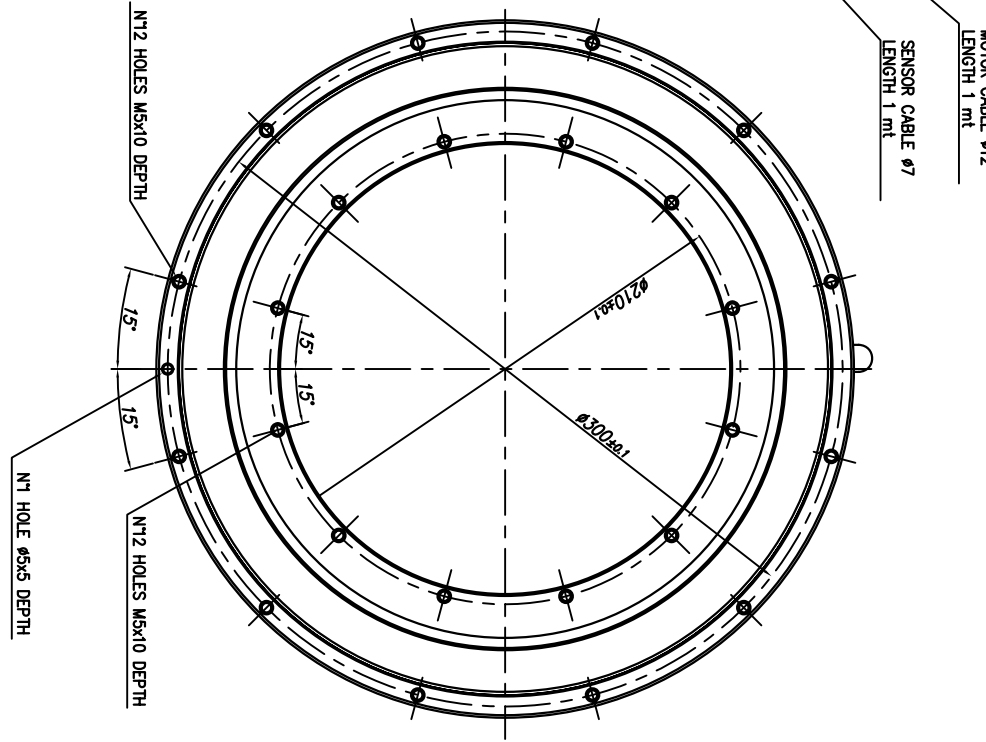
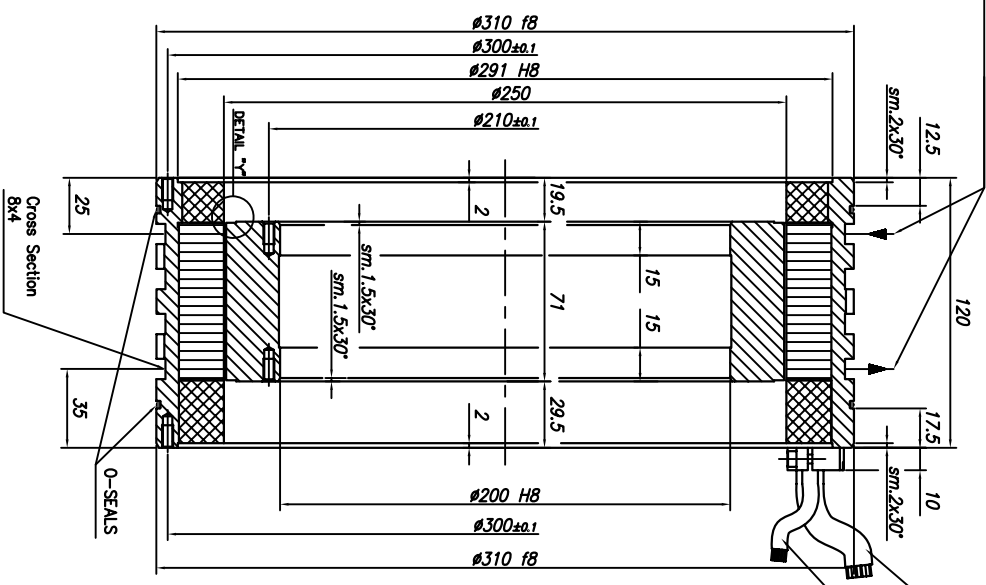
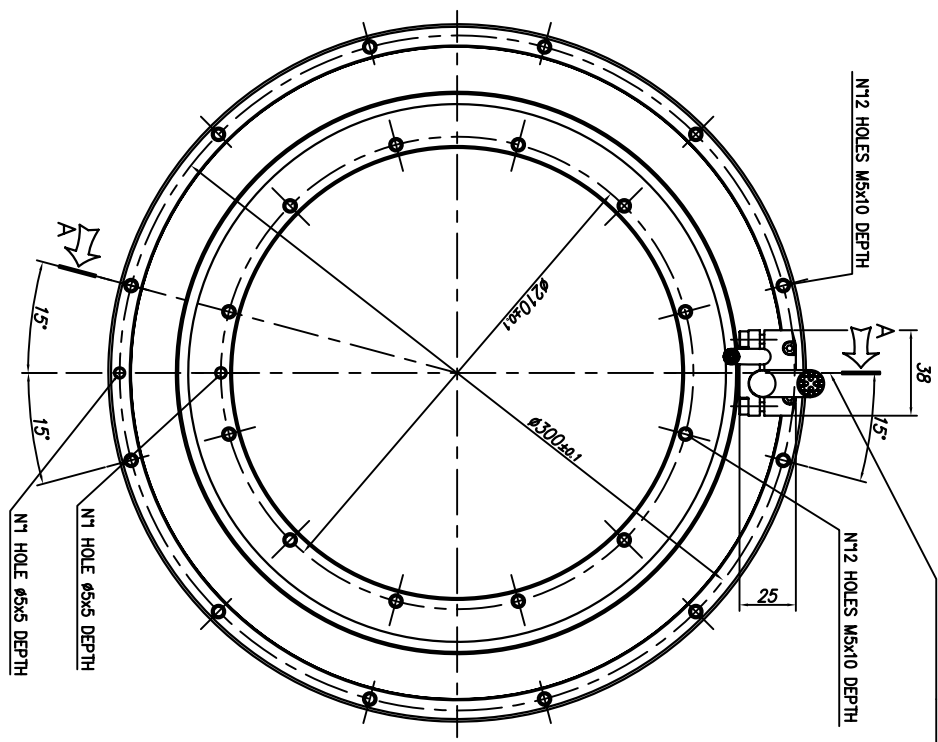
N3 MOTOR CABLE $\varnothing 4.3$
LENGTH 1 m

N6 SENSOR CABLE $\varnothing 6.1$
LENGTH 1 m



REV.	DATE	DESCRIPTION
01	01.07.2011	Initial Issue
02	15.08.2011	Update drawing with new specifications

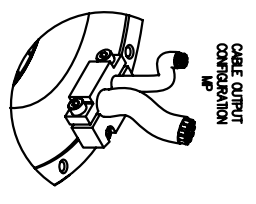
GENERAL ASSEMBLY	
Part Name	ROTOR-STATOR KIT MK-CI 2905
Part No.	01 MK-CI 2905-070 MF
Scale	1:1



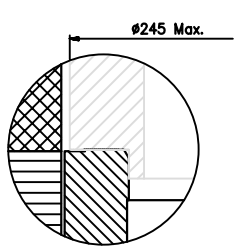
Thermistor motor protection device
(Ex. Siemens SKN-101-18V10)

TECHNAI
DIRECT DRIVE
MOTOR

To Drive with KTY 84 input (Ex. Siemens 6ES7 1D-01) or multimeter with the appropriate rating



CABLE OUTPUT
CONFIGURATION
MP



DETAIL "A-A"
ROTOR INTERFACE TO
CUSTOMER SHAFT

GENERAL ASSEMBLY	
ITEM	DESCRIPTION
1	ROTOR-STATOR KIT MK-CI 2905
2	MK-CI 2905-070 MP
3	MP
4	MP
5	MP
6	MP
7	MP
8	MP
9	MP
10	MP
11	MP
12	MP
13	MP
14	MP
15	MP
16	MP
17	MP
18	MP
19	MP
20	MP
21	MP
22	MP
23	MP
24	MP
25	MP
26	MP
27	MP
28	MP
29	MP
30	MP
31	MP
32	MP
33	MP
34	MP
35	MP
36	MP
37	MP
38	MP
39	MP
40	MP
41	MP
42	MP
43	MP
44	MP
45	MP
46	MP
47	MP
48	MP
49	MP
50	MP