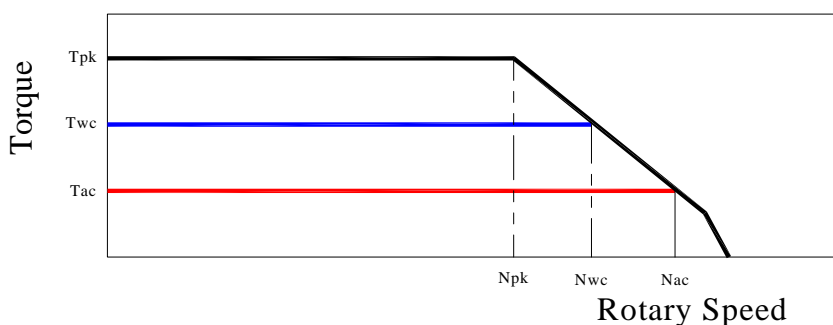


## TORQUE MOTOR - MK-CI 290-030 WA

Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	Tpk	Nm	260
Continuos Torque (Water Cooling Dt100)	Twc	Nm	134
Continuos Torque (Air Cooling Dt100)	Tac	Nm	59
Stall Torque (Water Cooling)	Twsc	Nm	102
Stall Torque (Air Cooling)	Tsac	Nm	45
Ripple Torque (Cogging Torque)	Tr	Nm	1,2
Power Loss at Twc	Pwc	Kw	1,7
Power Loss at Tac	Pac	Kw	0,35
Termal Resistance Water Cooling	RthWc	Kw	0,07
Termal Resistance Air Cooling	RthAc	Kw	0,31
Torque Constant	Kt	Nm/a	8,06
Back EMF Constant	Ke	V/1000 Rpm	494
Maximum Speed at Ipk at 600 Vdc	Npk	rpm	330
Maximum Speed at Iwc at 600 Vdc	Nwc	rpm	660
Maximum Speed at Iac at 600 Vdc	Nac	rpm	760
Winding Resistance (Phase to Phase)	R20	$\Omega$	2,9
Winding Inductance (Phase to Phase)	L	mh	6,8
Peak Current	Ipk	Arms	46
Continuos Current (Water Cooling Dt100)	Iwc	Arms	16,9
Continuos Current (Air Cooling Dt100)	Iac	Arms	7,5
Stall Current at 0 Speed (Water Cooling)	Iswc	Arms	12,9
Stall Current at 0 Speed (Air Cooling)	Isac	Arms	5,7
Maximum Winding Temperature		$^{\circ}\text{C}$	130
Height of Rotor		mm	30
Height of Stator		mm	70
Stator jacket outer diameter		mm	310

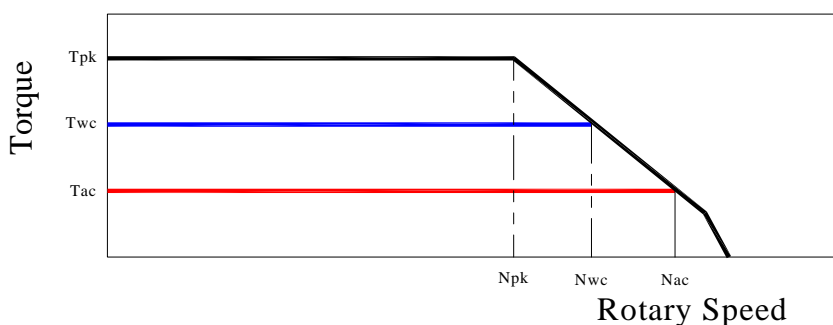
### Torque diagram

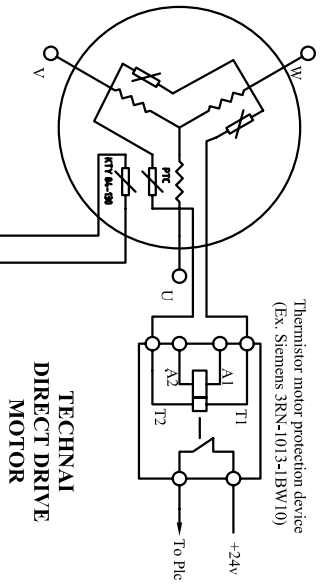
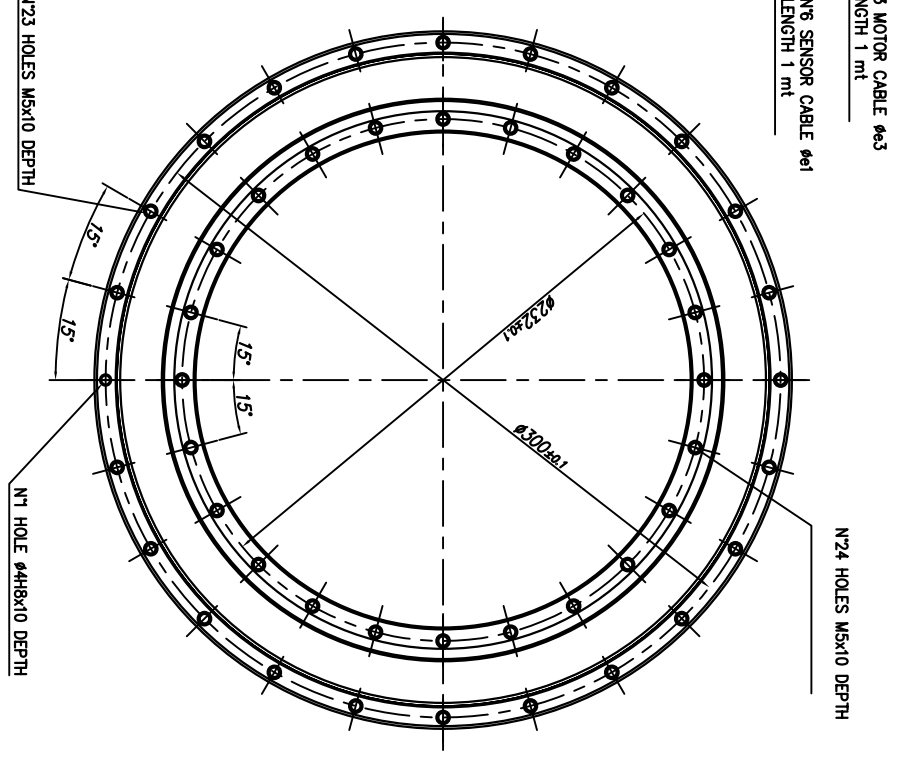
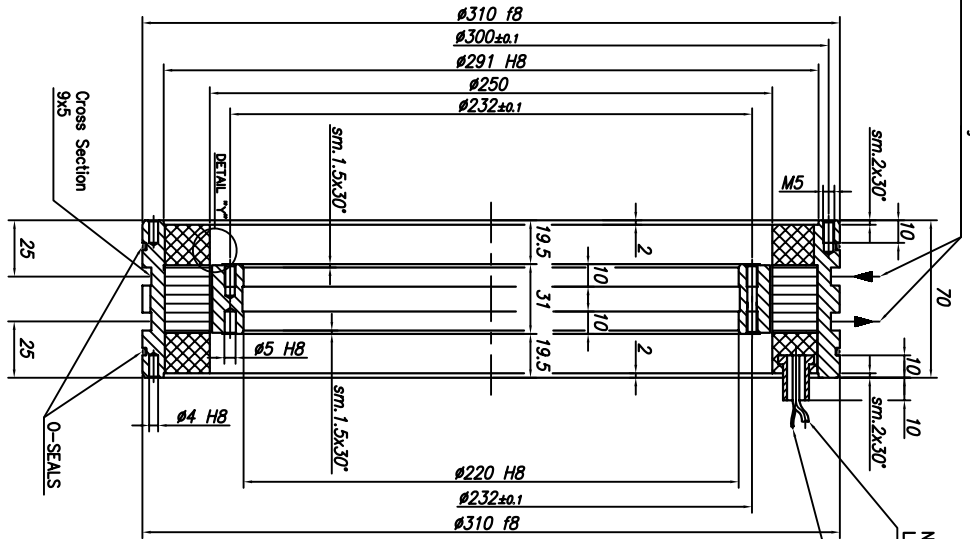
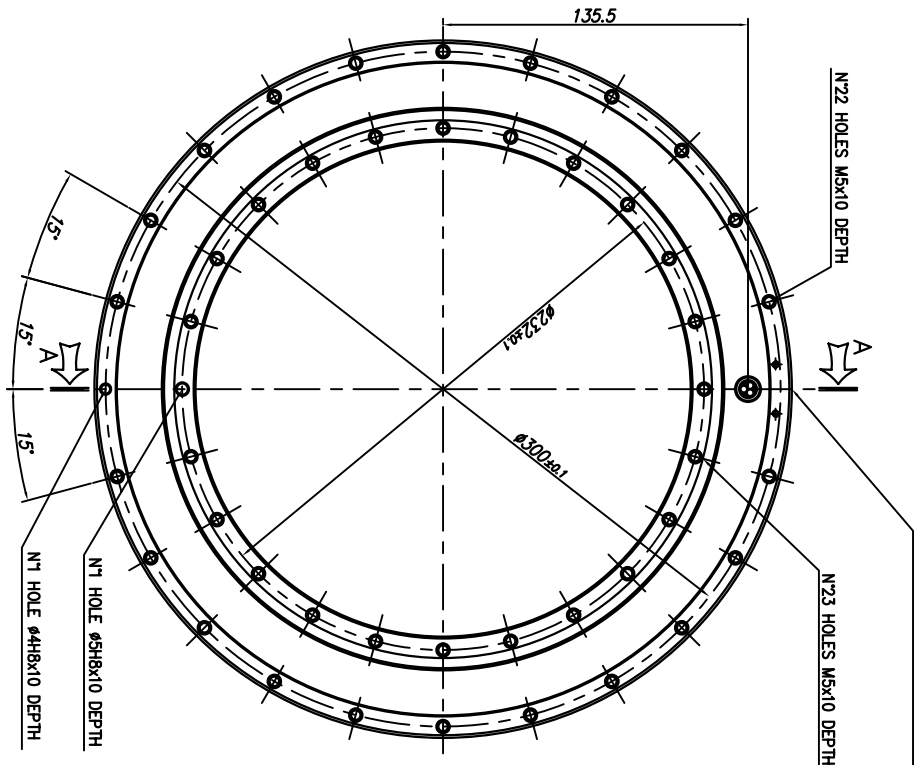


## TORQUE MOTOR - MK-CI 290-030 WB

Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	T <sub>pk</sub>	Nm	260
Continuos Torque (Water Cooling Dt100)	T <sub>wc</sub>	Nm	134
Continuos Torque (Air Cooling Dt100)	T <sub>ac</sub>	Nm	54
Stall Torque (Water Cooling)	T <sub>wsc</sub>	Nm	102
Stall Torque (Air Cooling)	T <sub>sac</sub>	Nm	41
Ripple Torque (Cogging Torque)	T <sub>r</sub>	Nm	1
Power Loss at T <sub>wc</sub>	P <sub>wc</sub>	Kw	1,7
Power Loss at T <sub>ac</sub>	P <sub>ac</sub>	Kw	0,35
Termal Resistance Water Cooling	R <sub>thWc</sub>	Kw	0,07
Termal Resistance Air Cooling	R <sub>thAc</sub>	Kw	0,31
Torque Constant	K <sub>t</sub>	Nm/a	3,7
Back EMF Constant	K <sub>e</sub>	V/1000 Rpm	227
Maximum Speed at I <sub>pk</sub> at 600 Vdc	N <sub>pk</sub>	rpm	750
Maximum Speed at I <sub>wc</sub> at 600 Vdc	N <sub>wc</sub>	rpm	1430
Maximum Speed at I <sub>ac</sub> at 600 Vdc	N <sub>ac</sub>	rpm	1700
Winding Resistance (Phase to Phase)	R <sub>20</sub>	Ω	0,72
Winding Inductance (Phase to Phase)	L	mh	1,7
Peak Current	I <sub>pk</sub>	Arms	92
Continuos Current (Water Cooling Dt100)	I <sub>wc</sub>	Arms	33,5
Continuos Current (Air Cooling Dt100)	I <sub>ac</sub>	Arms	15
Stall Current at 0 Speed (Water Cooling)	I <sub>wsc</sub>	Arms	25,5
Stall Current at 0 Speed (Air Cooling)	I <sub>sac</sub>	Arms	11,5
Maximum Winding Temperature		°C	130
Height of Rotor		mm	30
Height of Stator		mm	70
Stator jacket outer diameter		mm	310

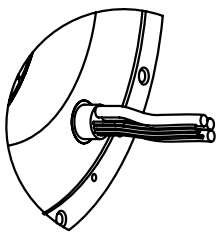
### Torque diagram



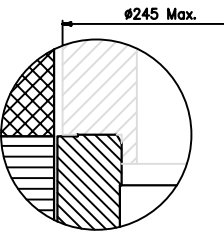


Thermistor motor protection device  
(Ex: Siemens 3RN-1013-1BW10)

To Drive with KTY 84 input (Ex. Simodrive 611D/U) or multimeter with the appropriate rating

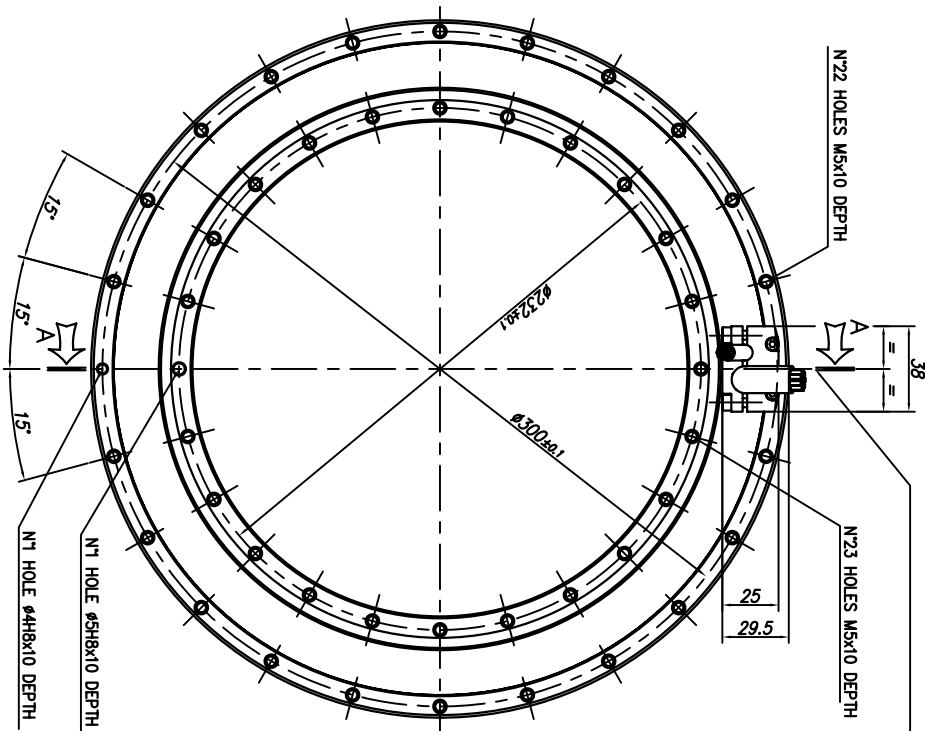


CABLE OUTPUT CONFIGURATION



DETAIL "Y-Y"  
ROTOR INTERFACE TO CUSTOMER SHAFT

TECHNAI		GENERAL ASSEMBLY	
ROTOR-STATOR KIT MK-CI 290		MK-CI 290-030 MF	
SHEET 1 OF 1			



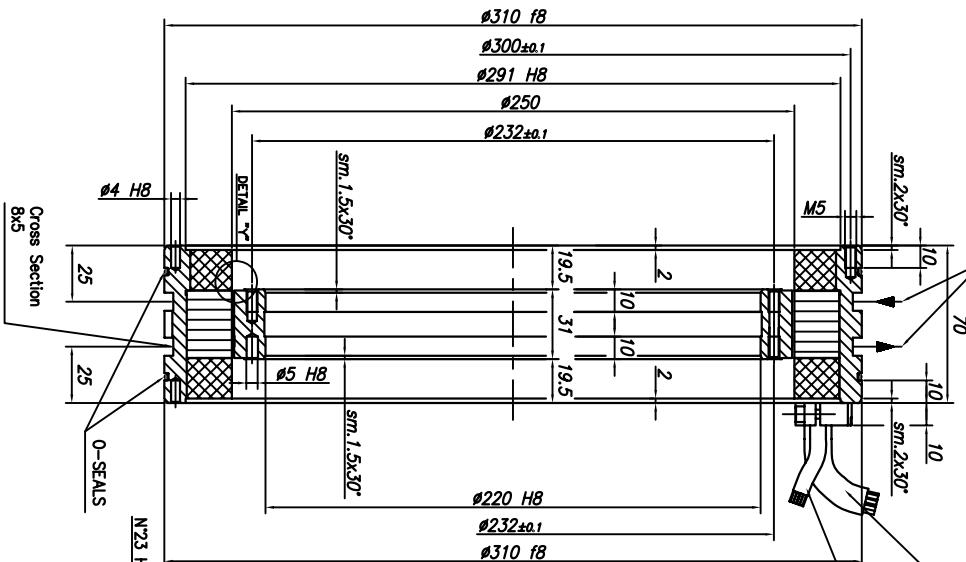
Thermistor motor protection device  
(Ex. Siemens 3RN-1013-1BW10)

TECHNAI  
DIRECT DRIVE  
MOTOR

To Drive with KTY 84 input (Ex. Simodrive 611D(U) or multimeter with the appropriate rating)

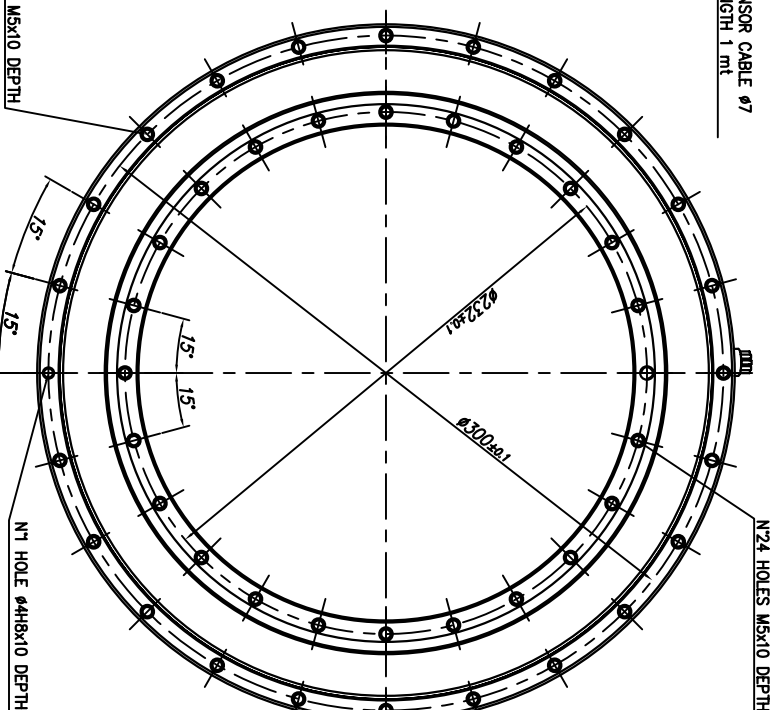
Water Cooling IN  
Water Cooling OUT

SECTION "A-A"

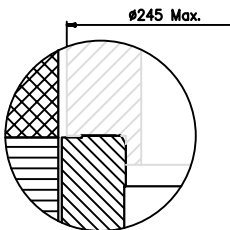


MOTOR CABLE  $\phi 12$   
LENGTH 1 m

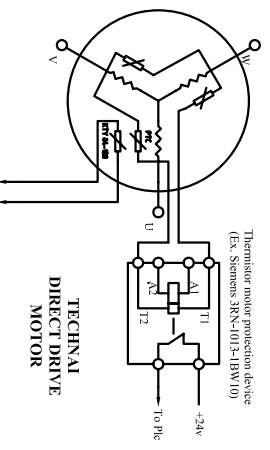
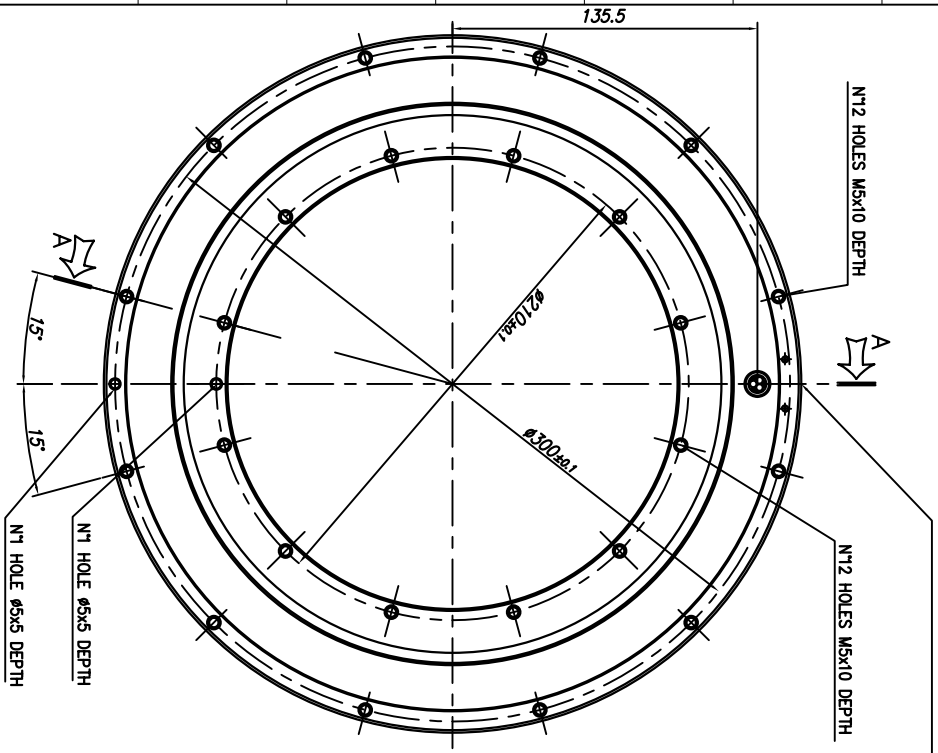
SENSOR CABLE  $\phi 7$   
LENGTH 1 m



DETAIL "Y-Y"  
ROTOR INTERFACE TO  
CUSTOMER SHAFT

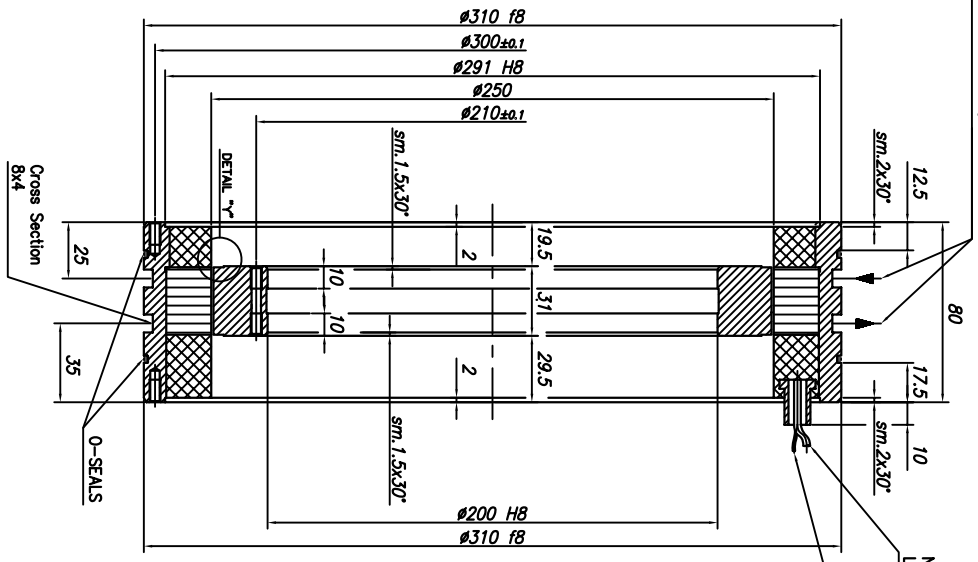


TECHNAI	GENERAL ASSEMBLY
ROTOR-STATOR KIT MK-CI 290	
MK-CI 290-030 MP	
1.1	

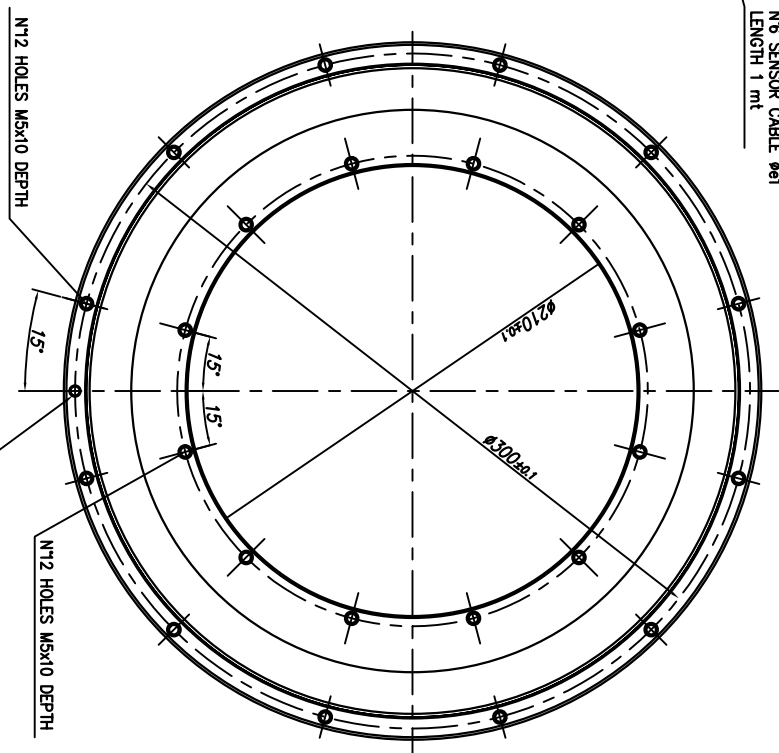


Water Cooling IN  
Water Cooling OUT

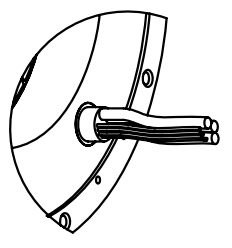
SECTION "A-A"



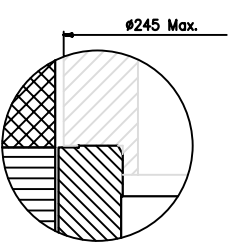
N3 MOTOR CABLE  $\phi 3$   
LENGTH 1 mt  
N5 SENSOR CABLE  $\phi 1$   
LENGTH 1 mt



CABLE OUTPUT  
CONFIGURATION  
MF



DETAIL "V"  
ROTOR INTERFACE TO  
CUSTOMER SHAFT



TECHNAI		GENERAL ASSEMBLY	
ROTOR-STATOR KIT MK-CI 2905			
MK-CI 2905-030 MF			
REV. 1.0			

