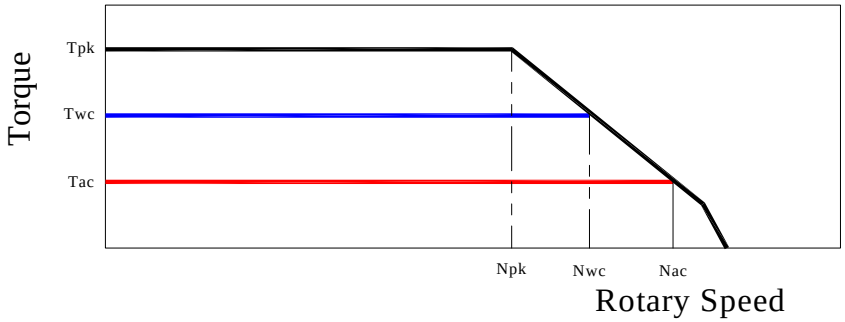
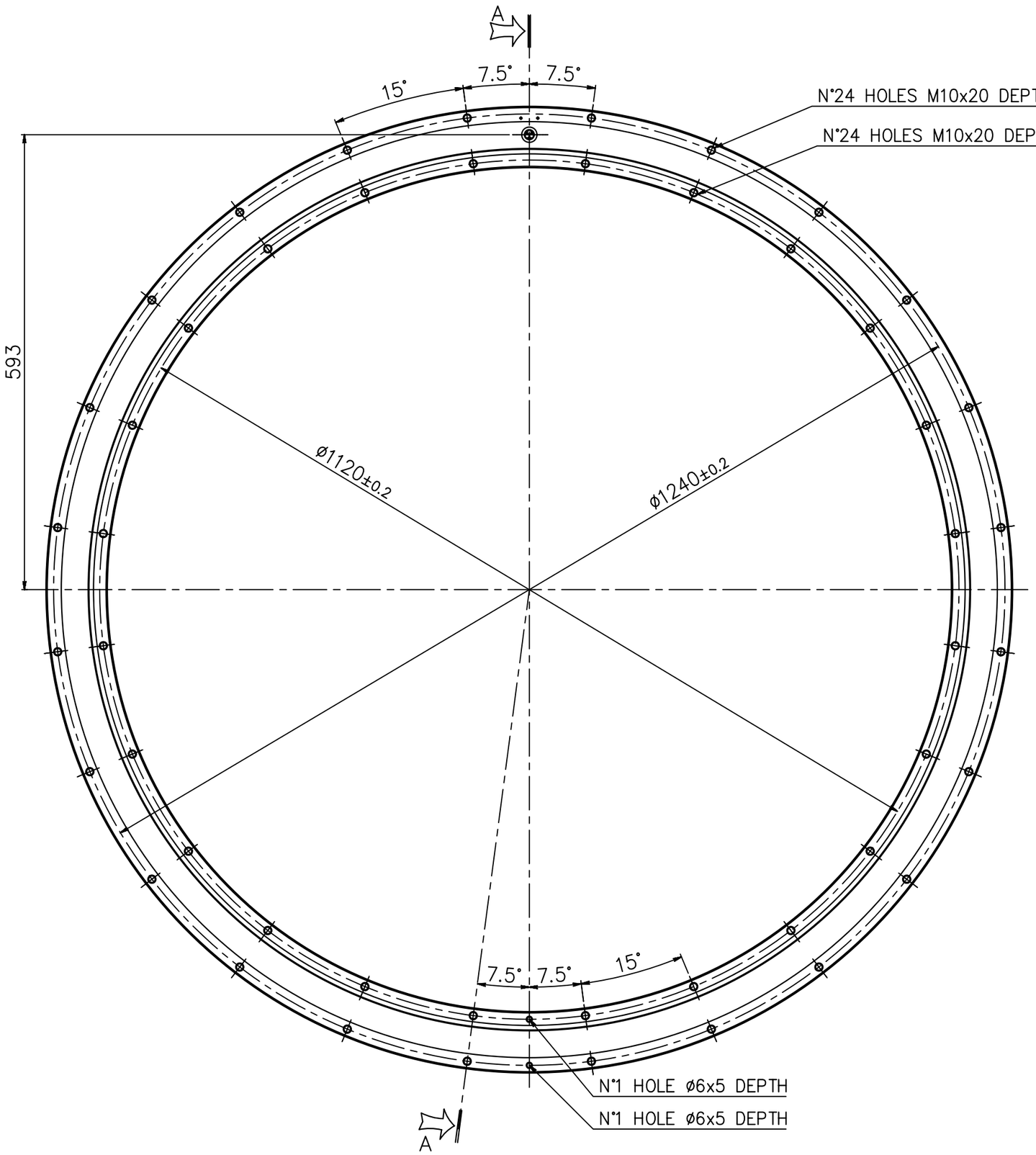
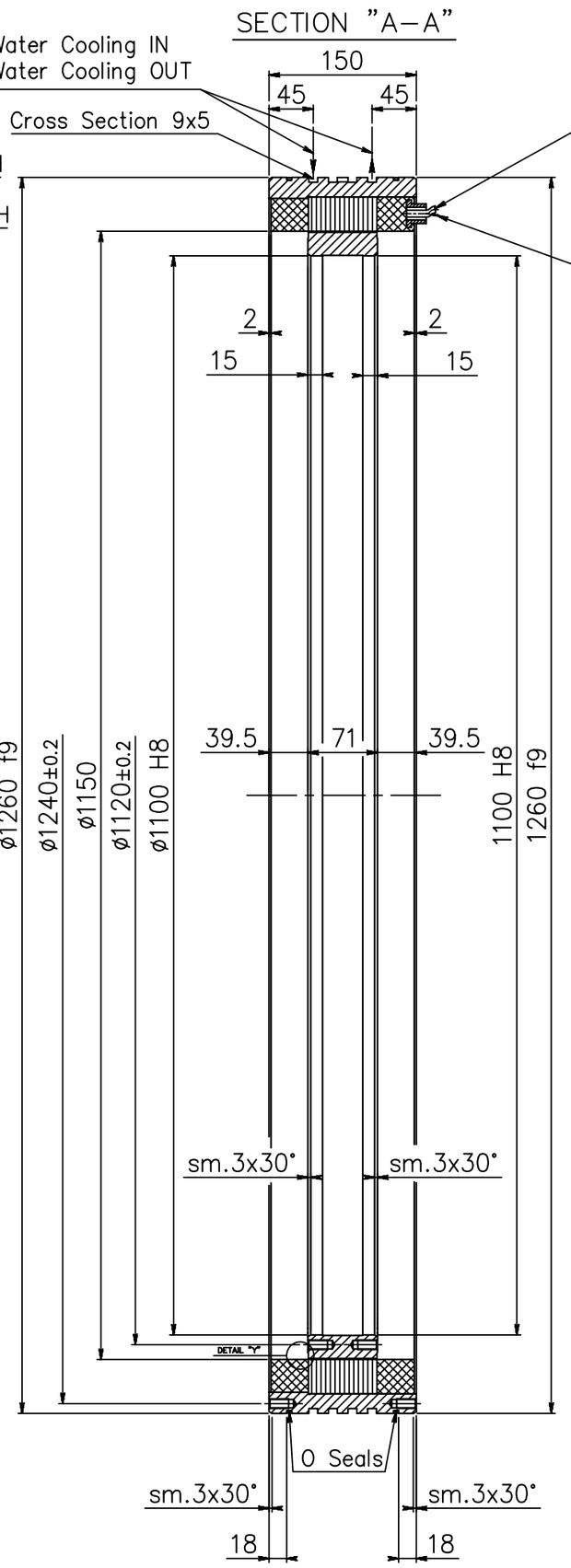
TORQUE MOTOR - MK-CI 1220-070 WA

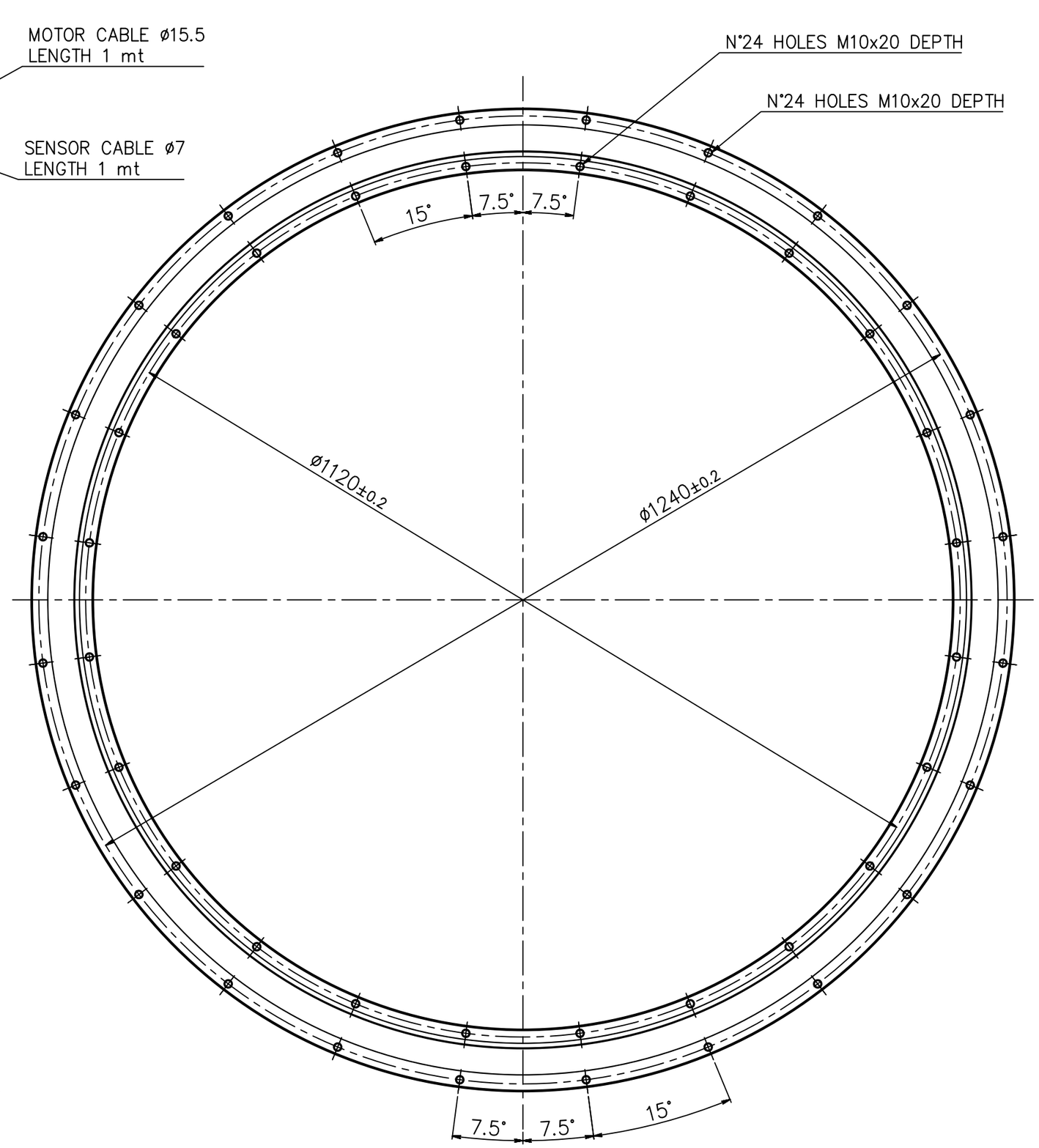
Motor specification	Symbol	Unit	
Number of pole	P		220
Peak Torque	Tpk	Nm	14570
Continuos Torque (Water Cooling Dt100)	Twc	Nm	7691
Continuos Torque (Air Cooling Dt100)	Tac	Nm	3627
Stall Torque (Water Cooling)	Twsc	Nm	5871
Stall Torque (Air Cooling)	Tsac	Nm	2769
Ripple Torque (Cogging Torque)	Tr	Nm	56
Power Loss at Twc	Pwc	Kw	10,5
Power Loss at Tac	Pac	Kw	2,3
Termal Resistance Water Cooling	RthWc	Kw	0,01
Termal Resistance Air Cooling	RthAc	Kw	0,04
Torque Constant	Kt	Nm/a	150,5
Back EMF Constant	Ke	V/1000 Rpm	9107
Maximum Speed at Ipk at 600 Vdc	Npk	rpm	7
Maximum Speed at Iwc at 600 Vdc	Nwc	rpm	23
Maximum Speed at Iac at 600 Vdc	Nac	rpm	35
Winding Resistance (Phase to Phase)	R20	Ω	1,72
Winding Inductance (Phase to Phase)	L	mh	19,43
Peak Current	Ipk	Arms	139
Continuos Current (Water Cooling Dt100)	Ivc	Arms	53,8
Continuos Current (Air Cooling Dt100)	Iac	Arms	24,8
Stall Current at 0 Speed (Water Cooling)	Iswc	Arms	41
Stall Current at 0 Speed (Air Cooling)	Isac	Arms	18,9
Maximum Winding Temperature		°C	130
Height of Rotor		mm	70
Height of Stator		mm	150
Stator jacket outer diameter		mm	1260

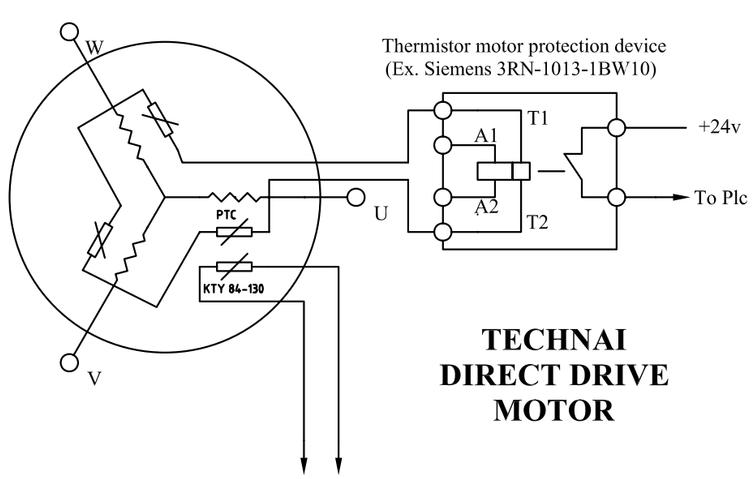
Torque diagram





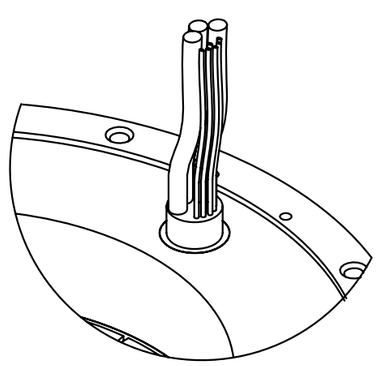






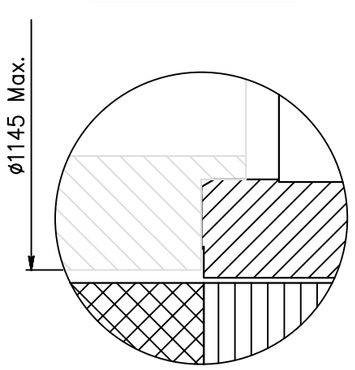
TECHNAI
DIRECT DRIVE
MOTOR

CABLE OUTPUT
CONFIGURATION
MF



DETAIL "Y"

ROTOR INTERFACE TO
CUSTOMER SHAFT



N. MODEL	ROUGH	WEIGHT Kg. FINISHED	1
RAW MATERIAL	.....		
RAW DIMENSIONS			
TREATMENT	.....		
DESIGNER: TECHNAI	DATE: 15.06.2009	SCALE	

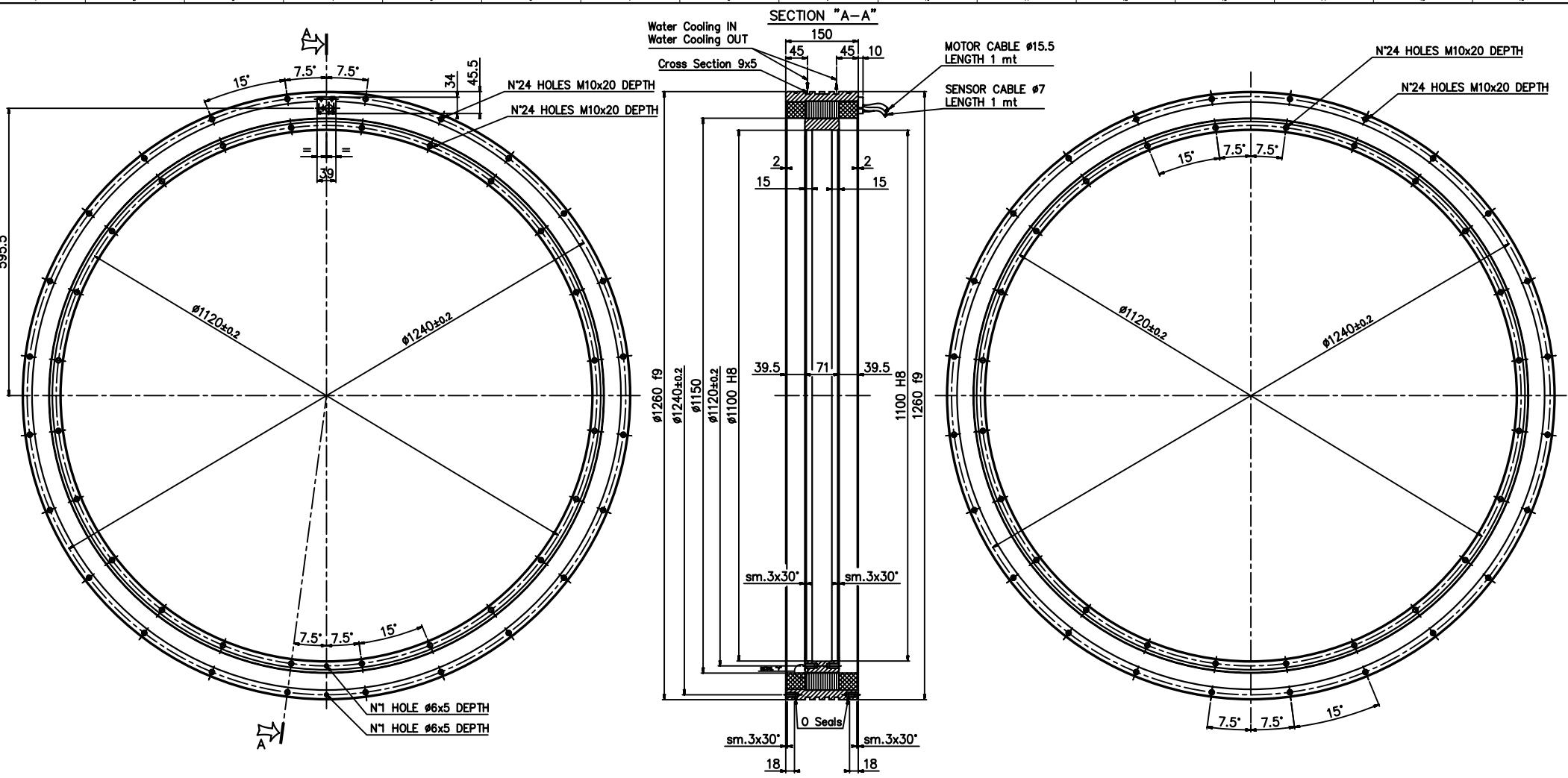
TECHNAI TEAM

DESCRIPTION	GENERAL ASSEMBLY
Q.TY	
ASSEMBLY	
MACHINE	ROTOR–STATOR KIT MK–CI 1220
COD.	MK–CI 1220–070 MF
SHEET	1 of 1

mm. 0 10 20 30 40 50 60 70 80 90 100

A1

- BY CAD - DO NOT CHANGE MANUALLY -



RAW MATERIAL		DESCRIPTION	GENERAL ASSEMBLY
RAW DIMENSIONS		ASSEMBLY	
TREATMENT		MACHINE	ROTOR-STATOR KIT MK-CI 1220
DESIGNER TECHNAI	DATE 15.06.2009	SCALE	COD. MK-CI 1220-070 MP
			SHEET 1 of 1

TECHNAI

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