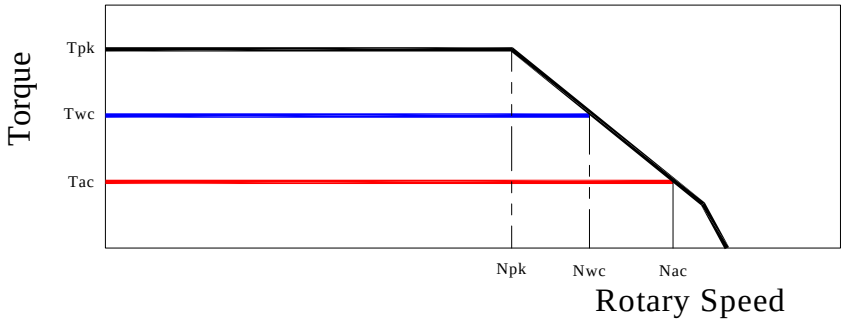
TORQUE MOTOR - MK-CI 360-050 WA

Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	Tpk	Nm	724
Continuos Torque (Water Cooling Dt100)	Twc	Nm	415
Continuos Torque (Air Cooling Dt100)	Tac	Nm	175
Stall Torque (Water Cooling)	Twsc	Nm	317
Stall Torque (Air Cooling)	Tsac	Nm	134
Ripple Torque (Cogging Torque)	Tr	Nm	1,8
Power Loss at Twc	Pwc	Kw	2,8
Power Loss at Tac	Pac	Kw	0,5
Termal Resistance Water Cooling	RthWc	Kw	0,04
Termal Resistance Air Cooling	RthAc	Kw	0,2
Torque Constant	Kt	Nm/a	30
Back EMF Constant	Ke	V/1000 Rpm	1850
Maximum Speed at Ipk at 600 Vdc	Npk	rpm	50
Maximum Speed at Iwc at 600 Vdc	Nwc	rpm	140
Maximum Speed at Iac at 600 Vdc	Nac	rpm	190
Winding Resistance (Phase to Phase)	R20	Ω	6,8
Winding Inductance (Phase to Phase)	L	mh	42
Peak Current	Ipk	Arms	35
Continuos Current (Water Cooling Dt100)	Ivc	Arms	14
Continuos Current (Air Cooling Dt100)	Iac	Arms	6
Stall Current at 0 Speed (Water Cooling)	Iswc	Arms	10,7
Stall Current at 0 Speed (Air Cooling)	Isac	Arms	4,6
Maximum Winding Temperature		°C	130
Height of Rotor		mm	50
Height of Stator		mm	110
Stator jacket outer diameter		mm	385

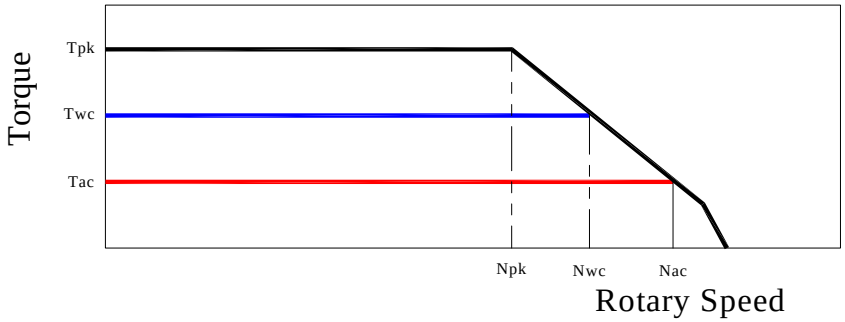
Torque diagram

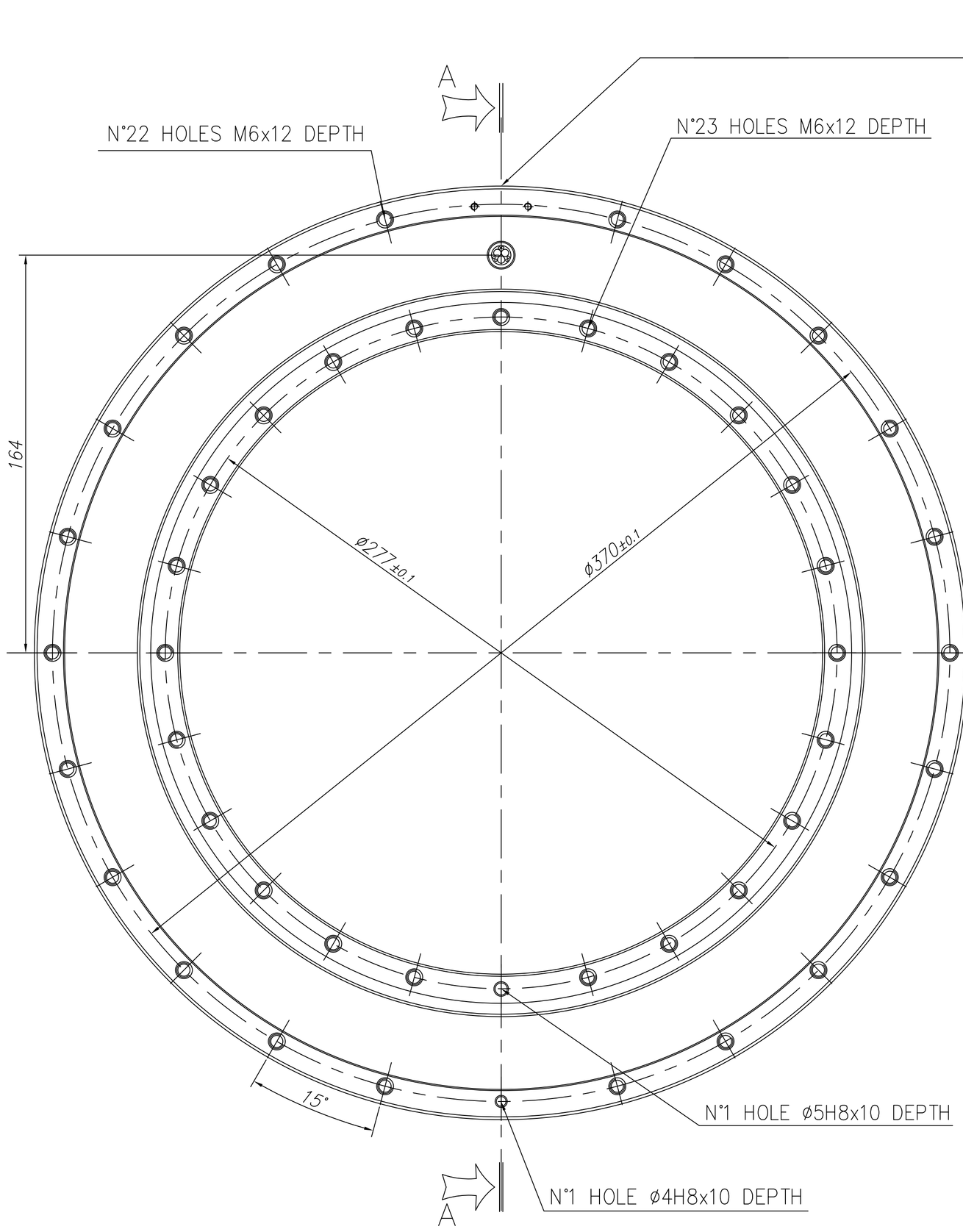


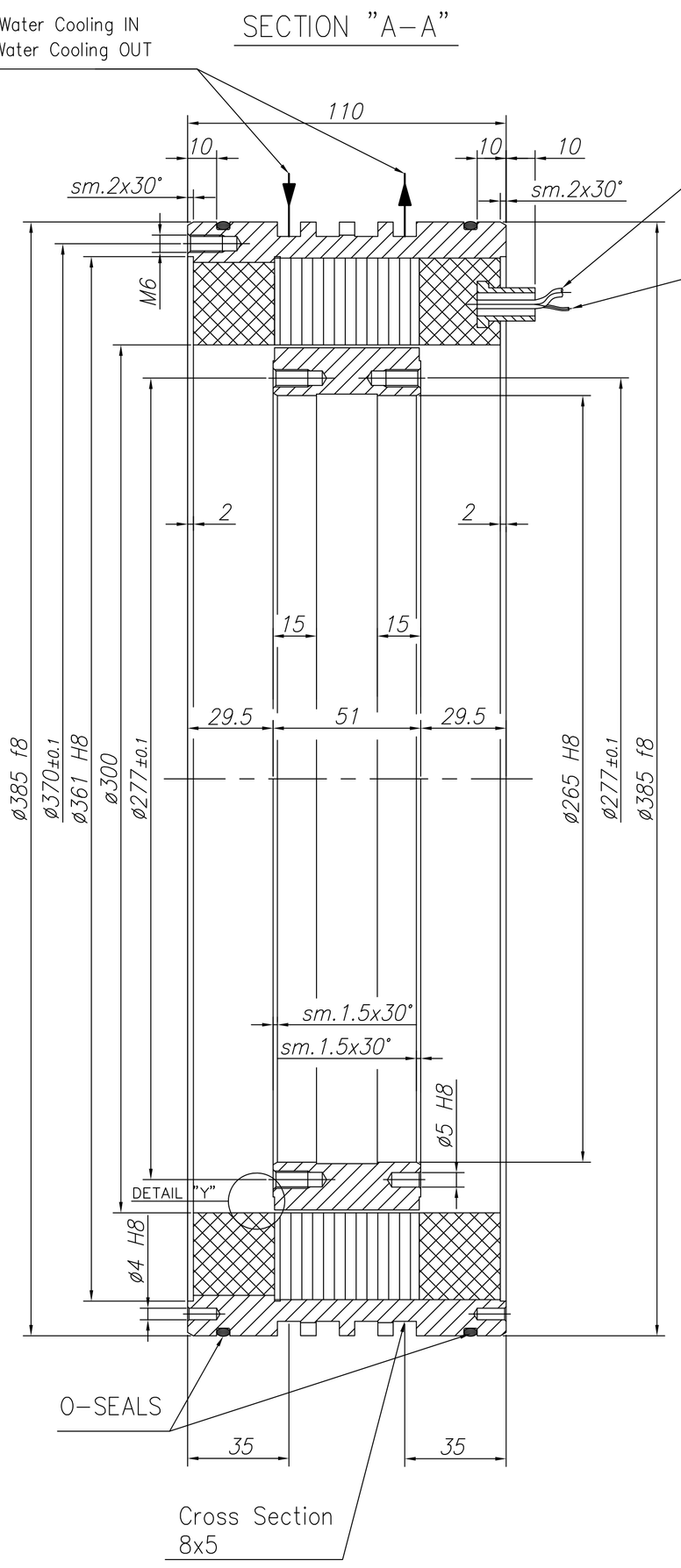
TORQUE MOTOR - MK-CI 360-050 WB

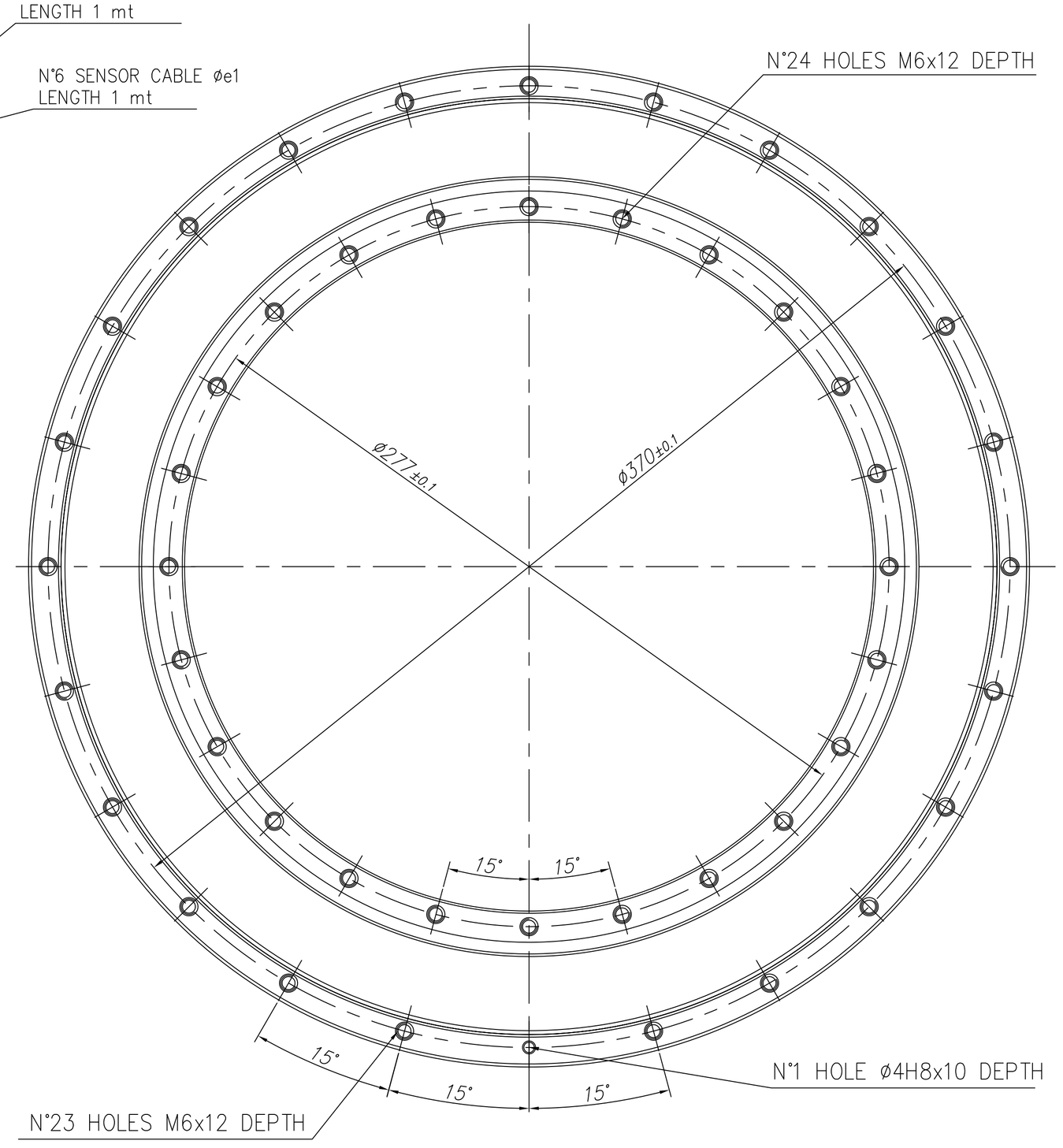
Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	Tpk	Nm	724
Continuos Torque (Water Cooling Dt100)	Twc	Nm	428
Continuos Torque (Air Cooling Dt100)	Tac	Nm	178
Stall Torque (Water Cooling)	Twsc	Nm	324
Stall Torque (Air Cooling)	Tsac	Nm	137
Ripple Torque (Cogging Torque)	Tr	Nm	1,8
Power Loss at Twc	Pwc	Kw	2,75
Power Loss at Tac	Pac	Kw	0,5
Termal Resistance Water Cooling	RthWc	Kw	0,04
Termal Resistance Air Cooling	RthAc	Kw	0,2
Torque Constant	Kt	Nm/a	9,8
Back EMF Constant	Ke	V/1000 Rpm	599
Maximum Speed at Ipk at 600 Vdc	Npk	rpm	220
Maximum Speed at Iwc at 600 Vdc	Nwc	rpm	480
Maximum Speed at Iac at 600 Vdc	Nac	rpm	660
Winding Resistance (Phase to Phase)	R20	Ω	0,66
Winding Inductance (Phase to Phase)	L	mh	5,05
Peak Current	Ipk	Arms	116
Continuos Current (Water Cooling Dt100)	Ivc	Arms	44,5
Continuos Current (Air Cooling Dt100)	Iac	Arms	19
Stall Current at 0 Speed (Water Cooling)	Iswc	Arms	34
Stall Current at 0 Speed (Air Cooling)	Isac	Arms	14,5
Maximum Winding Temperature		°C	130
Height of Rotor		mm	50
Height of Stator		mm	110
Stator jacket outer diameter		mm	385

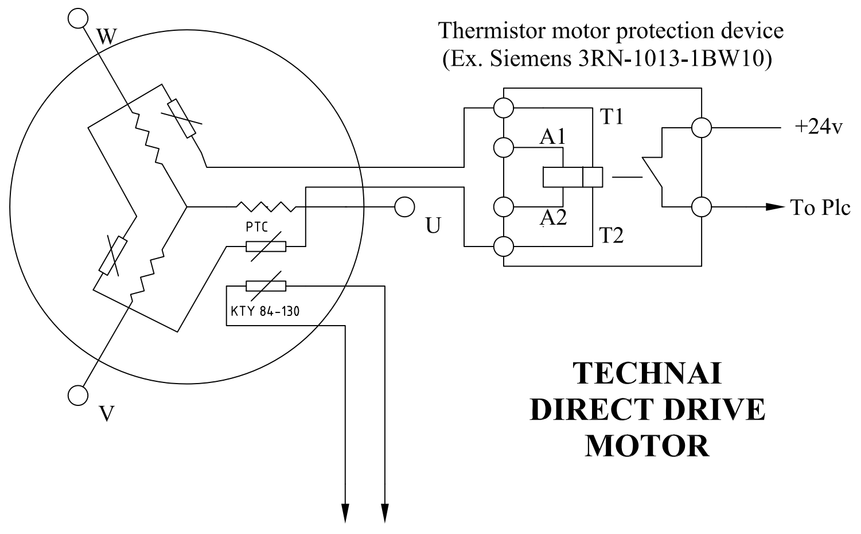
Torque diagram





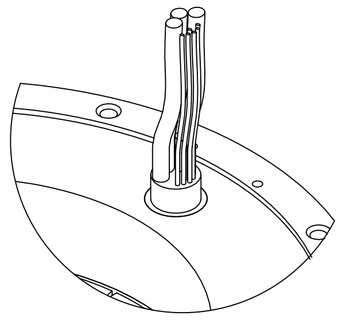






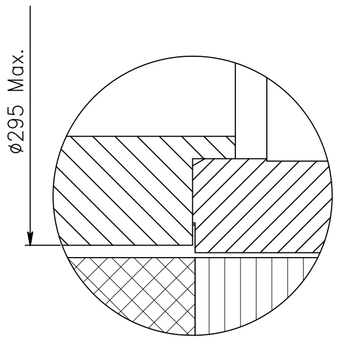
TECHNAI
DIRECT DRIVE
MOTOR

CABLE OUTPUT
CONFIGURATION
MF



DETAIL "Y"

ROTOR INTERFACE TO
CUSTOMER SHAFT



N. MODEL	MASS	WEIGHT Kg.	NUMBER 1
RAW MATERIAL	.....		
RAW DIMENSIONS	.....		
TREATMENT	.....		
DESIGNER TECHNAI	DATE 15.06.2009	SCALE	

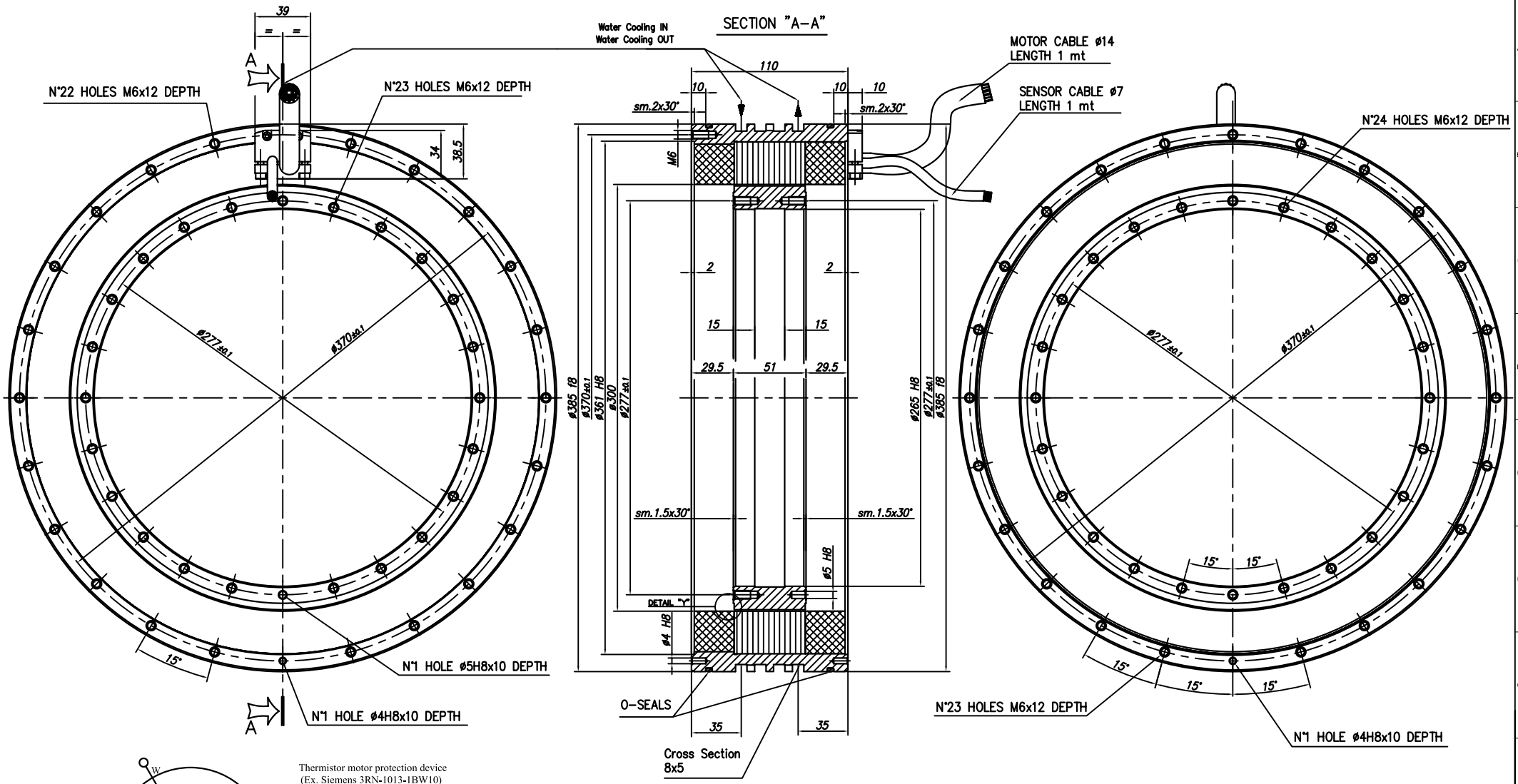
TECHNAI TEAM

DESCRIPTION	GENERAL ASSEMBLY
ASSEMBLY	
MACHINE	ROTOR-STATOR KIT MK-CI 360
COD.	MK-CI 360-050 MF
SHEET	1 of 1

- BY CAD - DO NOT CHANGE MANUALLY

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

A1



GENERAL ASSEMBLY			
ROTOR-STATOR KIT MK-CI 360			
COD. MK-CI 360-050 MP	SHEET 1 of 1		