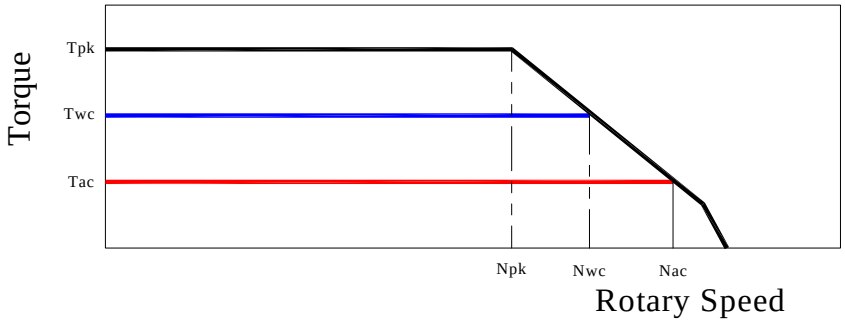
TORQUE MOTOR - MK-CI 360-100 WA

Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	Tpk	Nm	1448
Continuos Torque (Water Cooling Dt100)	Twc	Nm	821
Continuos Torque (Air Cooling Dt100)	Tac	Nm	341
Stall Torque (Water Cooling)	Twsc	Nm	657
Stall Torque (Air Cooling)	Tsac	Nm	261
Ripple Torque (Cogging Torque)	Tr	Nm	3,6
Power Loss at Twc	Pwc	Kw	5
Power Loss at Tac	Pac	Kw	0,8
Termal Resistance Water Cooling	RthWc	Kw	0,02
Termal Resistance Air Cooling	RthAc	Kw	0,13
Torque Constant	Kt	Nm/a	30,5
Back EMF Constant	Ke	V/1000 Rpm	1876
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	200
Winding Resistance (Phase to Phase)	R20	Ω	2,9
Winding Inductance (Phase to Phase)	L	mh	20,8
Peak Current	Ipk	Arms	73,5
Continuos Current (Water Cooling Dt100)	Ivc	Arms	28,6
Continuos Current (Air Cooling Dt100)	Iac	Arms	11,6
Stall Current at 0 Speed (Water Cooling)	Iswc	Arms	21,8
Stall Current at 0 Speed (Air Cooling)	Isac	Arms	8,9
Maximum Winding Temperature		°C	130
Height of Rotor		mm	100
Height of Stator		mm	160
Stator jacket outer diameter		mm	385

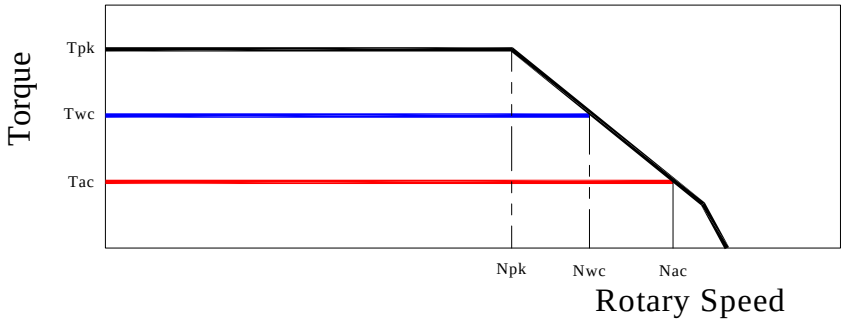
Torque diagram



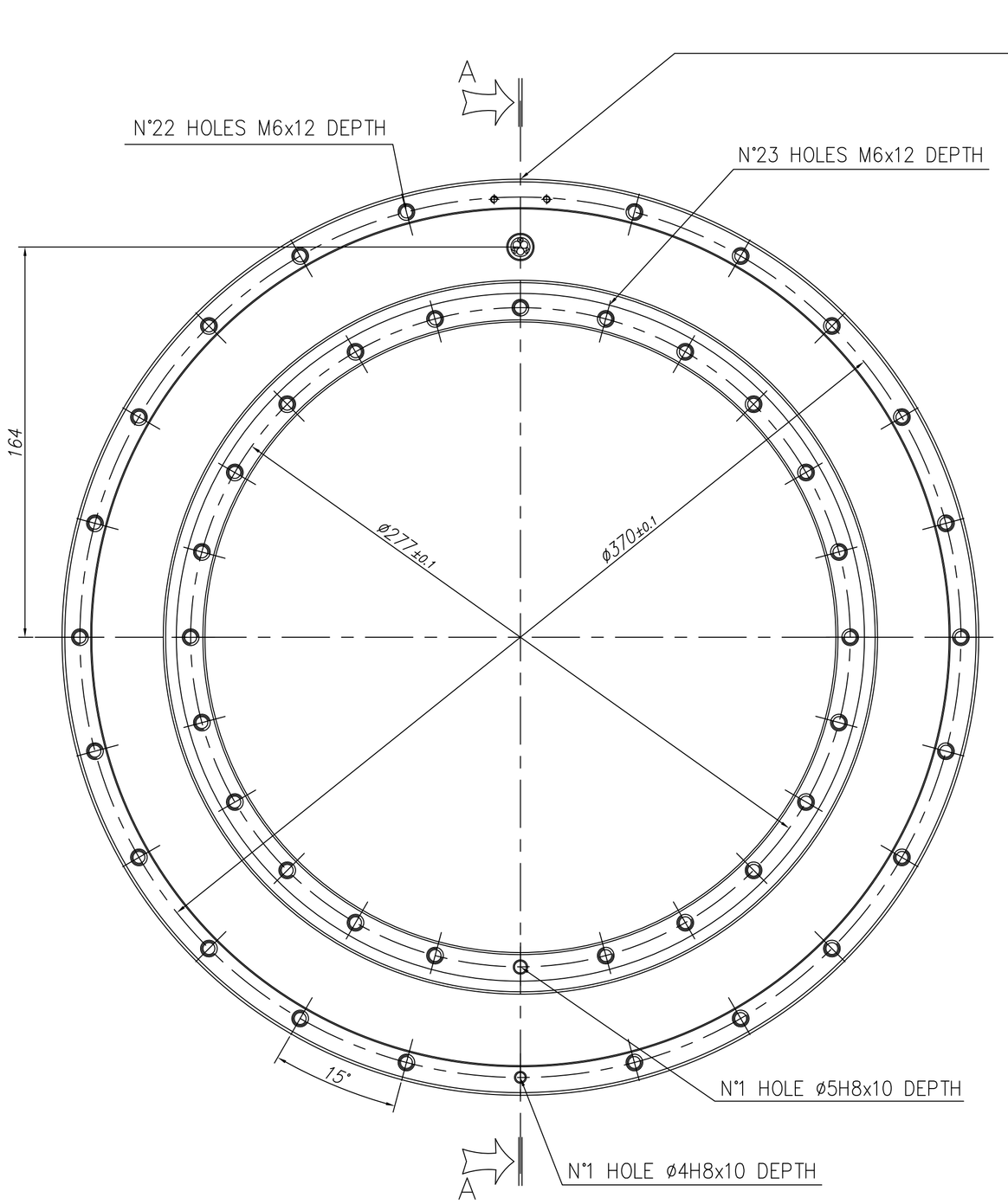
TORQUE MOTOR - MK-CI 360-100 WB

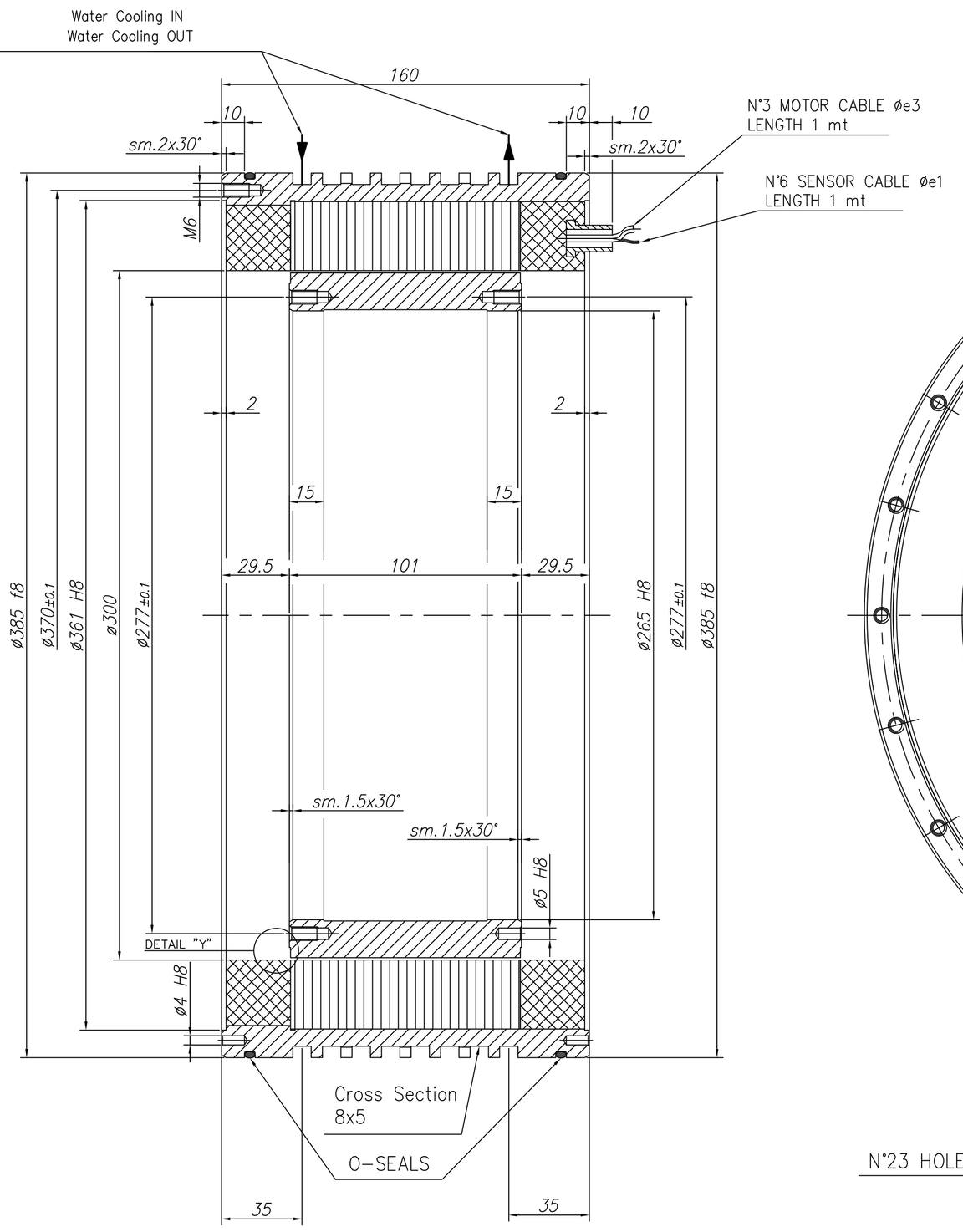
Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	Tpk	Nm	1447
Continuos Torque (Water Cooling Dt100)	Twc	Nm	821
Continuos Torque (Air Cooling Dt100)	Tac	Nm	335
Stall Torque (Water Cooling)	Twsc	Nm	657
Stall Torque (Air Cooling)	Tsac	Nm	257
Ripple Torque (Cogging Torque)	Tr	Nm	3,6
Power Loss at Twc	Pwc	Kw	5
Power Loss at Tac	Pac	Kw	0,8
Termal Resistance Water Cooling	RthWc	Kw	0,02
Termal Resistance Air Cooling	RthAc	Kw	0,13
Torque Constant	Kt	Nm/a	16
Back EMF Constant	Ke	V/1000 Rpm	990
Maximum Speed at Ipk at 600 Vdc	Npk	rpm	140
Maximum Speed at Iwc at 600 Vdc	Nwc	rpm	290
Maximum Speed at Iac at 600 Vdc	Nac	rpm	390
Winding Resistance (Phase to Phase)	R20	Ω	0,81
Winding Inductance (Phase to Phase)	L	mh	5,8
Peak Current	Ipk	Arms	140
Continuos Current (Water Cooling Dt100)	Ivc	Arms	55
Continuos Current (Air Cooling Dt100)	Iac	Arms	21,6
Stall Current at 0 Speed (Water Cooling)	Iswc	Arms	41,5
Stall Current at 0 Speed (Air Cooling)	Isac	Arms	16,5
Maximum Winding Temperature		°C	130
Height of Rotor		mm	100
Height of Stator		mm	160
Stator jacket outer diameter		mm	385

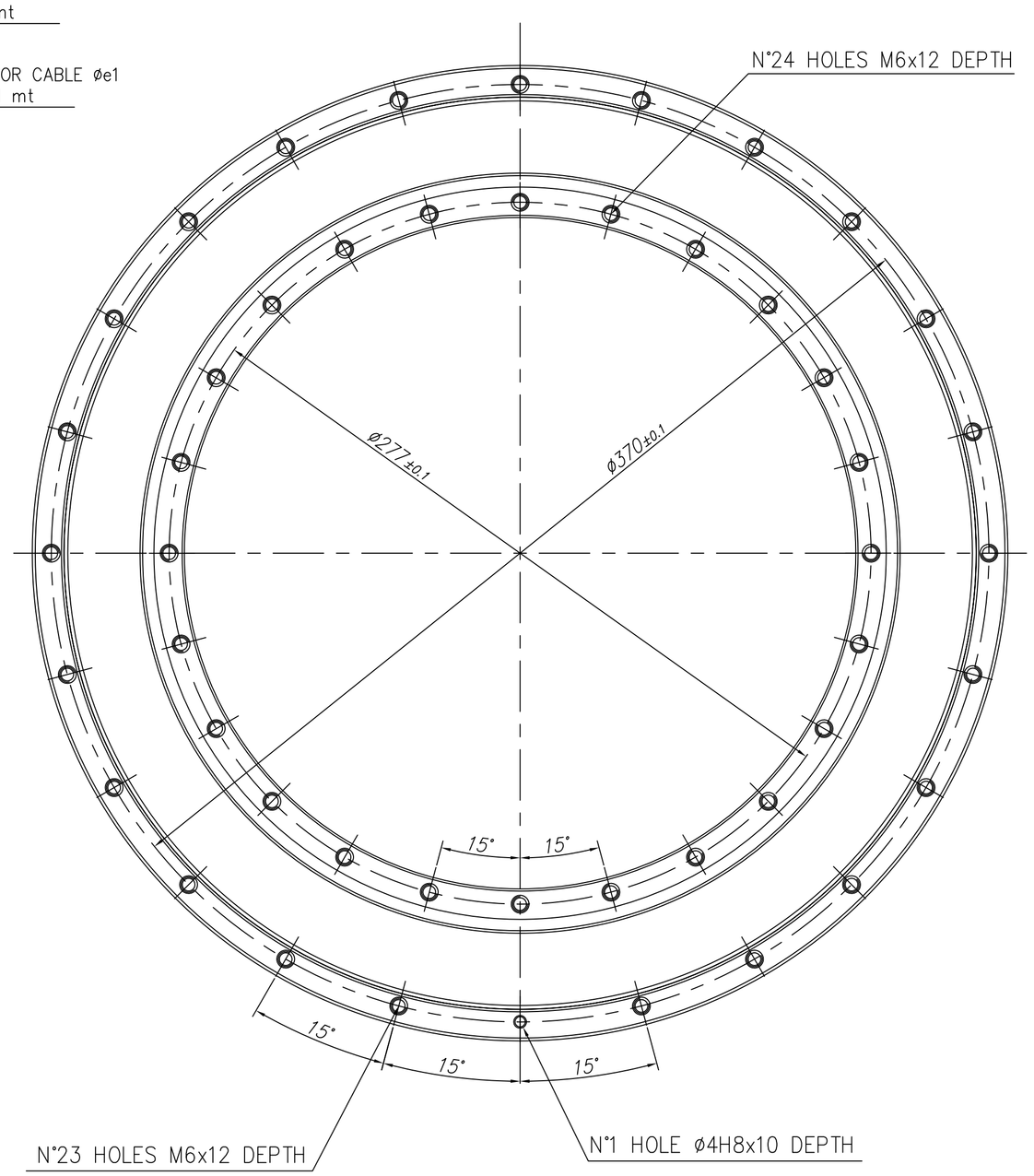
Torque diagram

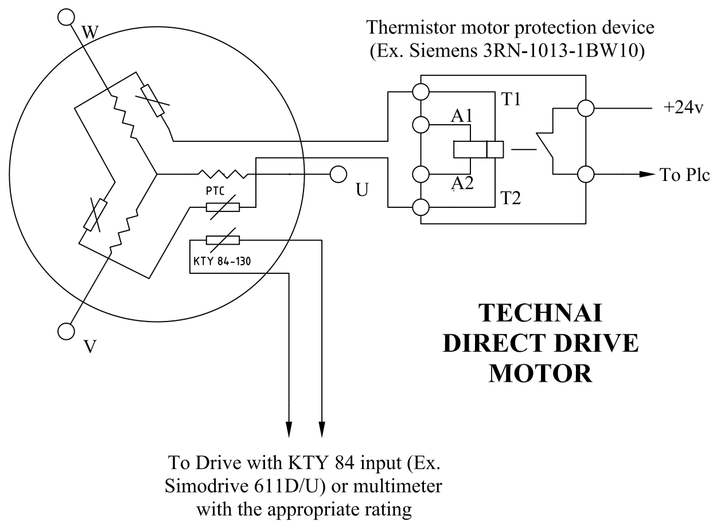


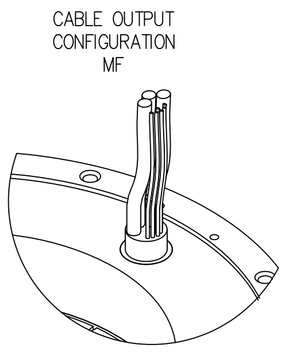
SECTION "A–A"

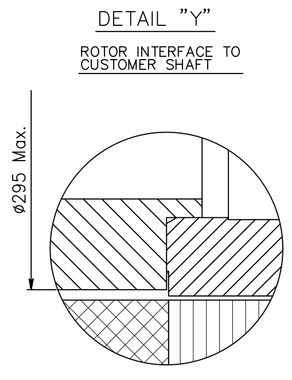












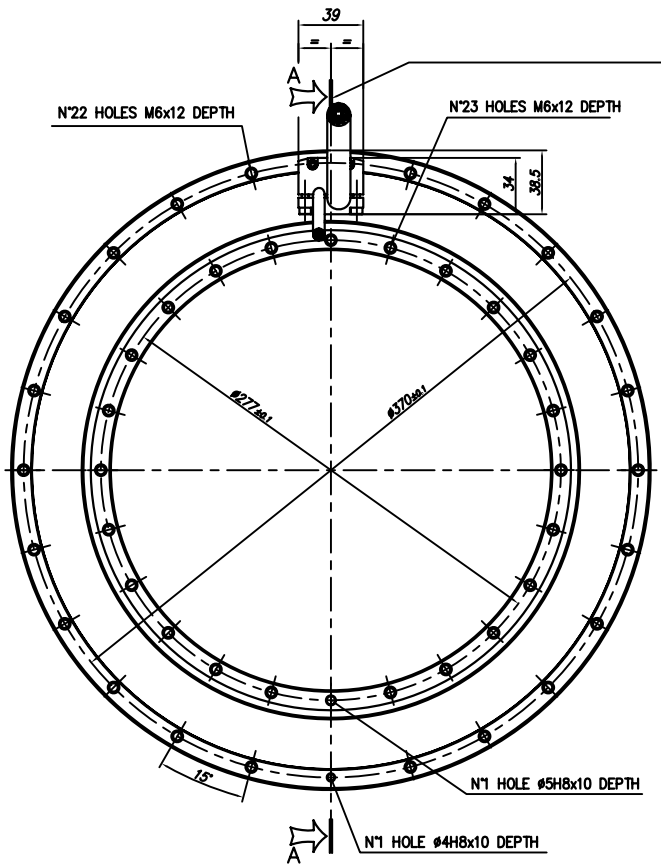
N. MODEL	MASS	WEIGHT Kg. FINISHED	DESCRIPTION	GENERAL ASSEMBLY
RAW MATERIAL	.....		ASSEMBLY	
RAW DIMENSIONS			MACHINE	ROTOR–STATOR KIT MK–CI 360
TREATMENT	.....		COD.	MK–CI 360–100 MF
DESIGNER: TECHNAI	DATE: 15.06.2009	SCALE		SHEET: 1 of 1

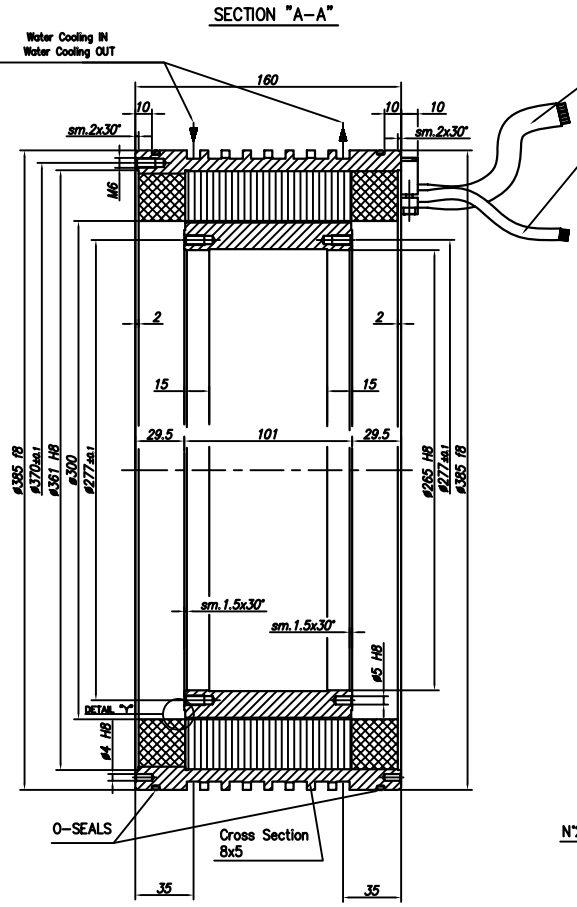
TECHNAI TEAM

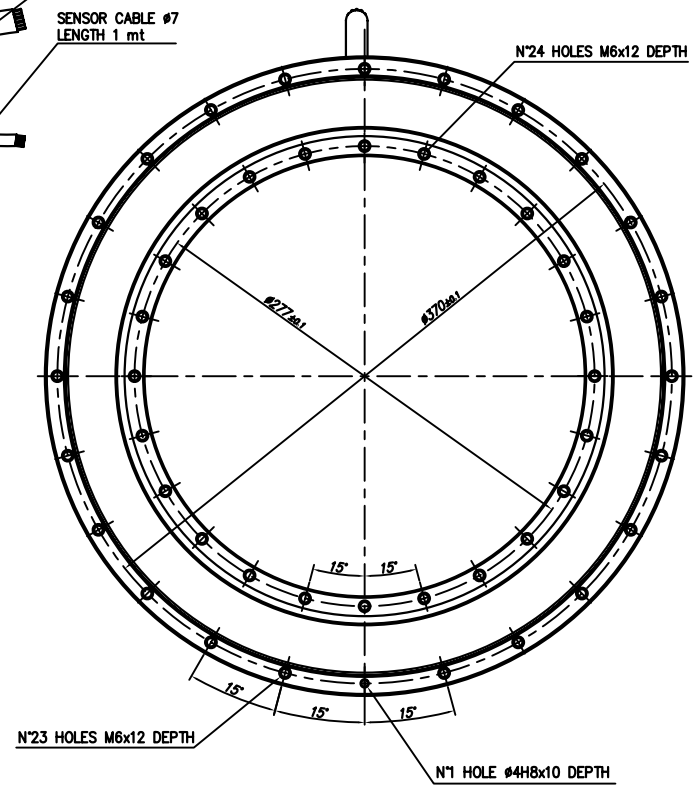
mm. 0 10 20 30 40 50 60 70 80 90 100

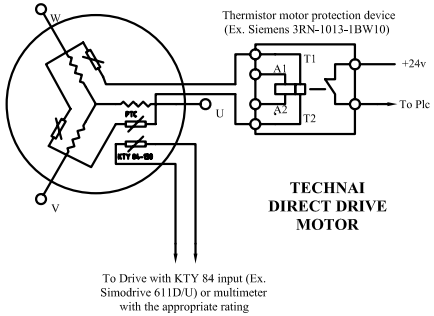
A1

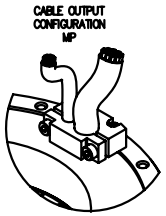
- BY CAD - DO NOT CHANGE MANUALLY

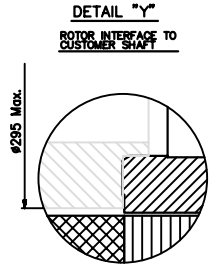












GENERAL ASSEMBLY
TECHNAI
ROTOR-STATOR KIT MK-CI 360
COD. MK-CI 360-100 MP
SHEET 1 of 1
A1