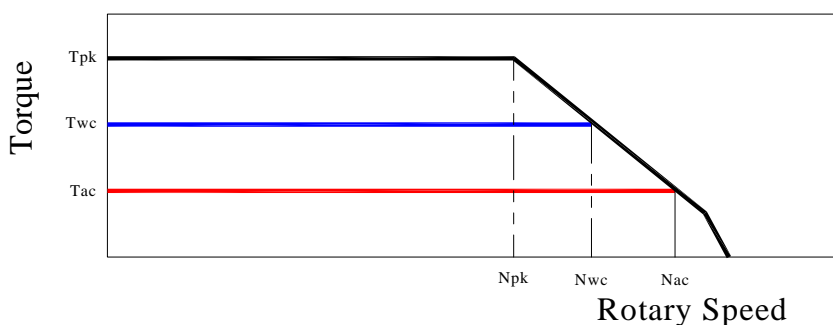


## TORQUE MOTOR - MK-CI 360-050 WA

Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	T <sub>pk</sub>	Nm	724
Continuos Torque (Water Cooling Dt100)	T <sub>wc</sub>	Nm	415
Continuos Torque (Air Cooling Dt100)	T <sub>ac</sub>	Nm	175
Stall Torque (Water Cooling)	T <sub>wsc</sub>	Nm	317
Stall Torque (Air Cooling)	T <sub>sac</sub>	Nm	134
Ripple Torque (Cogging Torque)	Tr	Nm	1,8
Power Loss at T <sub>wc</sub>	P <sub>wc</sub>	Kw	2,8
Power Loss at T <sub>ac</sub>	P <sub>ac</sub>	Kw	0,5
Termal Resistance Water Cooling	R <sub>thWc</sub>	Kw	0,04
Termal Resistance Air Cooling	R <sub>thAc</sub>	Kw	0,2
Torque Constant	K <sub>t</sub>	Nm/a	30
Back EMF Constant	K <sub>e</sub>	V/1000 Rpm	1850
Maximum Speed at I <sub>pk</sub> at 600 Vdc	N <sub>pk</sub>	rpm	50
Maximum Speed at I <sub>wc</sub> at 600 Vdc	N <sub>wc</sub>	rpm	140
Maximum Speed at I <sub>ac</sub> at 600 Vdc	N <sub>ac</sub>	rpm	190
Winding Resistance (Phase to Phase)	R <sub>20</sub>	Ω	6,8
Winding Inductance (Phase to Phase)	L	mh	42
Peak Current	I <sub>pk</sub>	Arms	35
Continuos Current (Water Cooling Dt100)	I <sub>wc</sub>	Arms	14
Continuos Current (Air Cooling Dt100)	I <sub>ac</sub>	Arms	6
Stall Current at 0 Speed (Water Cooling)	I <sub>wsc</sub>	Arms	10,7
Stall Current at 0 Speed (Air Cooling)	I <sub>sac</sub>	Arms	4,6
Maximum Winding Temperature		°C	130
Height of Rotor		mm	50
Height of Stator		mm	110
Stator jacket outer diameter		mm	385

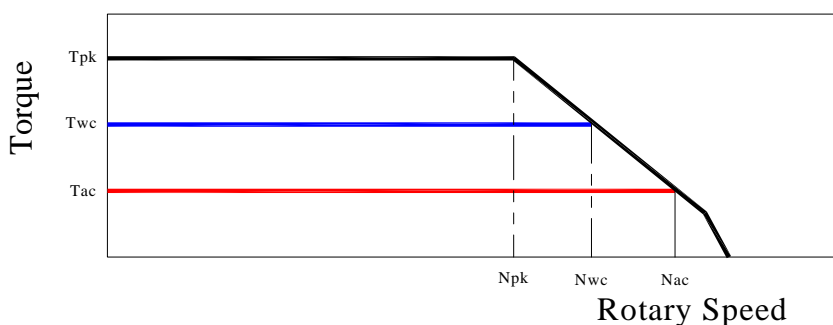
### Torque diagram

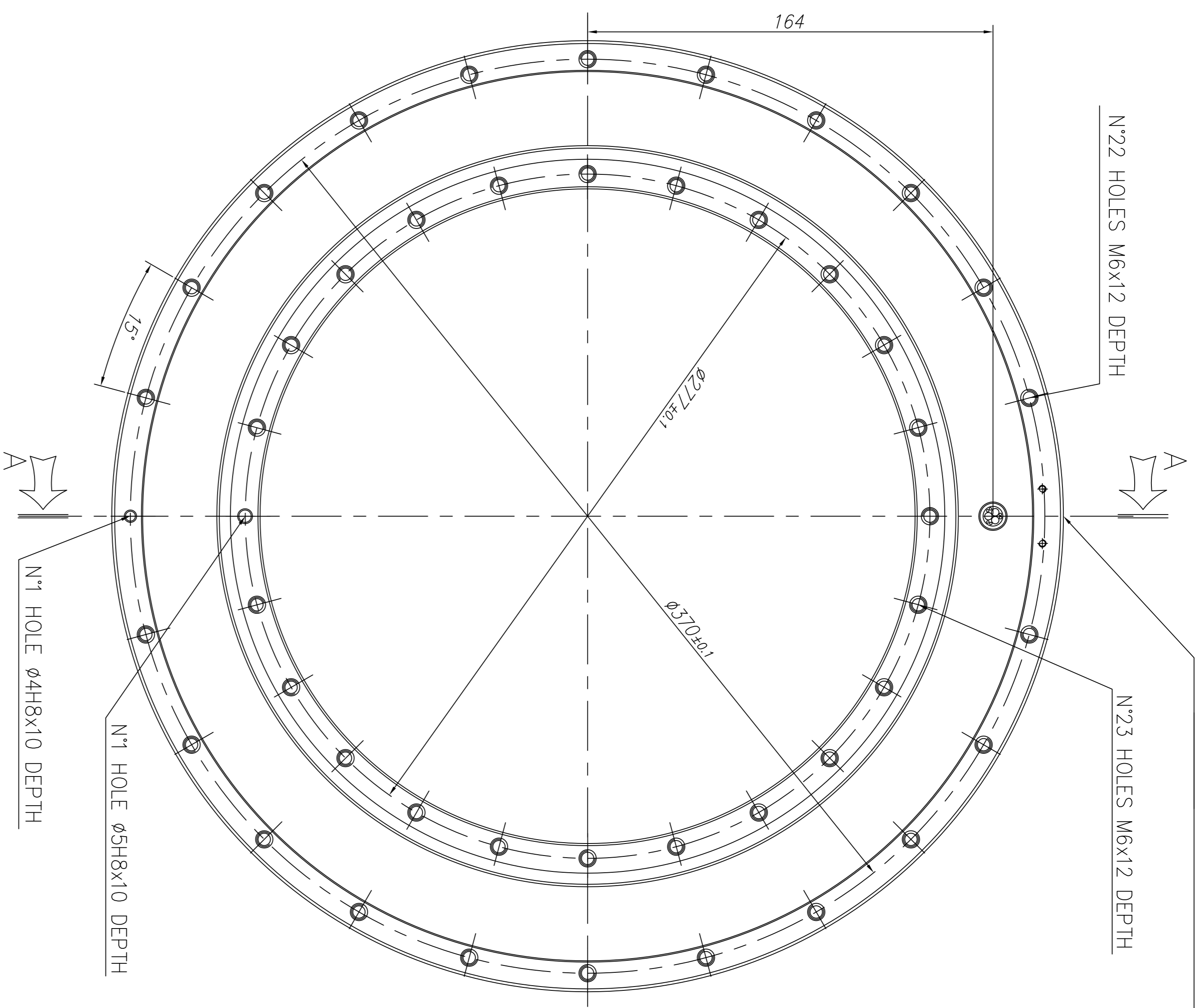


## TORQUE MOTOR - MK-CI 360-050 WB

Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	T <sub>pk</sub>	Nm	724
Continuos Torque (Water Cooling Dt100)	T <sub>wc</sub>	Nm	428
Continuos Torque (Air Cooling Dt100)	T <sub>ac</sub>	Nm	178
Stall Torque (Water Cooling)	T <sub>wsc</sub>	Nm	324
Stall Torque (Air Cooling)	T <sub>sac</sub>	Nm	137
Ripple Torque (Cogging Torque)	Tr	Nm	1,8
Power Loss at T <sub>wc</sub>	P <sub>wc</sub>	Kw	2,75
Power Loss at T <sub>ac</sub>	P <sub>ac</sub>	Kw	0,5
Termal Resistance Water Cooling	R <sub>thWc</sub>	Kw	0,04
Termal Resistance Air Cooling	R <sub>thAc</sub>	Kw	0,2
Torque Constant	K <sub>t</sub>	Nm/a	9,8
Back EMF Constant	K <sub>e</sub>	V/1000 Rpm	599
Maximum Speed at I <sub>pk</sub> at 600 Vdc	N <sub>pk</sub>	rpm	220
Maximum Speed at I <sub>wc</sub> at 600 Vdc	N <sub>wc</sub>	rpm	480
Maximum Speed at I <sub>ac</sub> at 600 Vdc	N <sub>ac</sub>	rpm	660
Winding Resistance (Phase to Phase)	R <sub>20</sub>	Ω	0,66
Winding Inductance (Phase to Phase)	L	mh	5,05
Peak Current	I <sub>pk</sub>	Arms	116
Continuos Current (Water Cooling Dt100)	I <sub>wc</sub>	Arms	44,5
Continuos Current (Air Cooling Dt100)	I <sub>ac</sub>	Arms	19
Stall Current at 0 Speed (Water Cooling)	I <sub>wsc</sub>	Arms	34
Stall Current at 0 Speed (Air Cooling)	I <sub>sac</sub>	Arms	14,5
Maximum Winding Temperature		°C	130
Height of Rotor		mm	50
Height of Stator		mm	110
Stator jacket outer diameter		mm	385

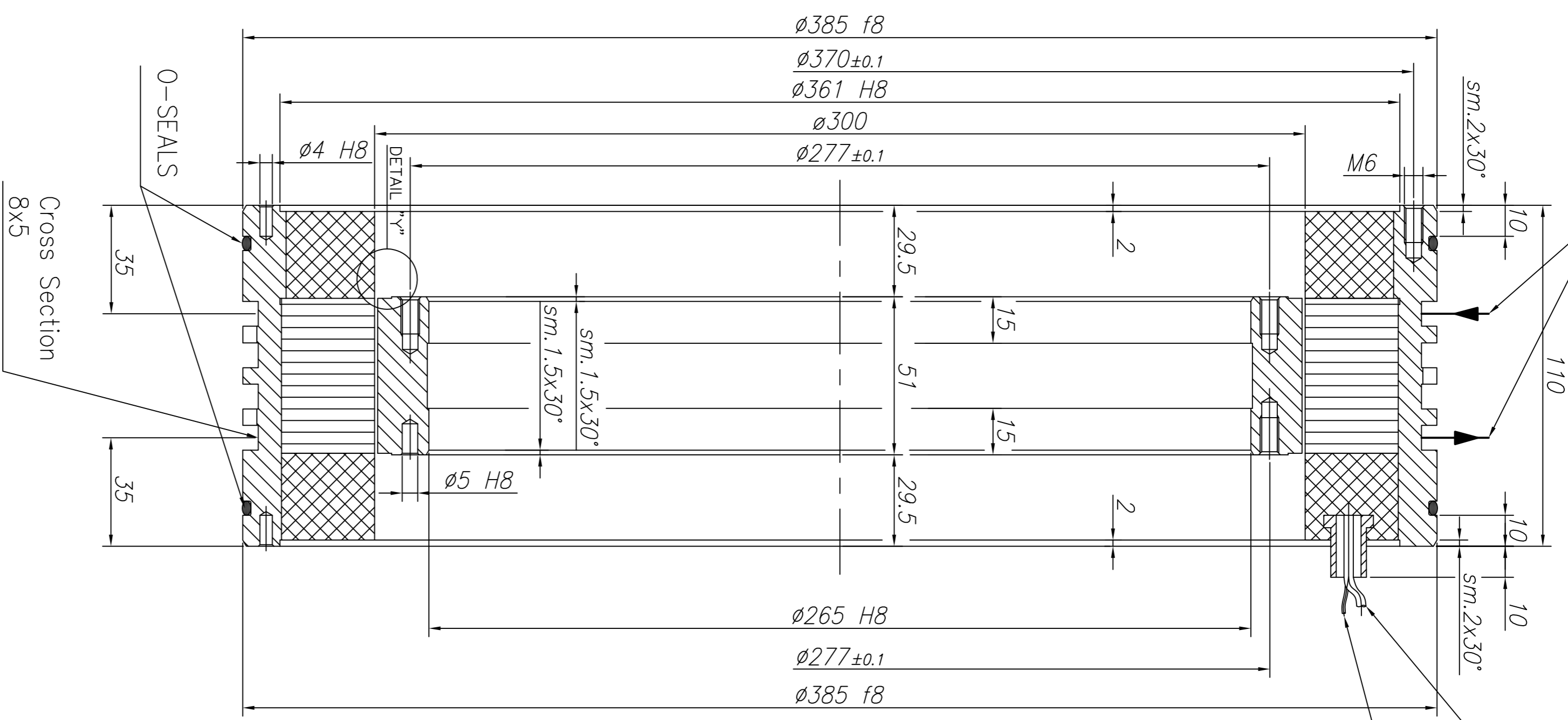
### Torque diagram





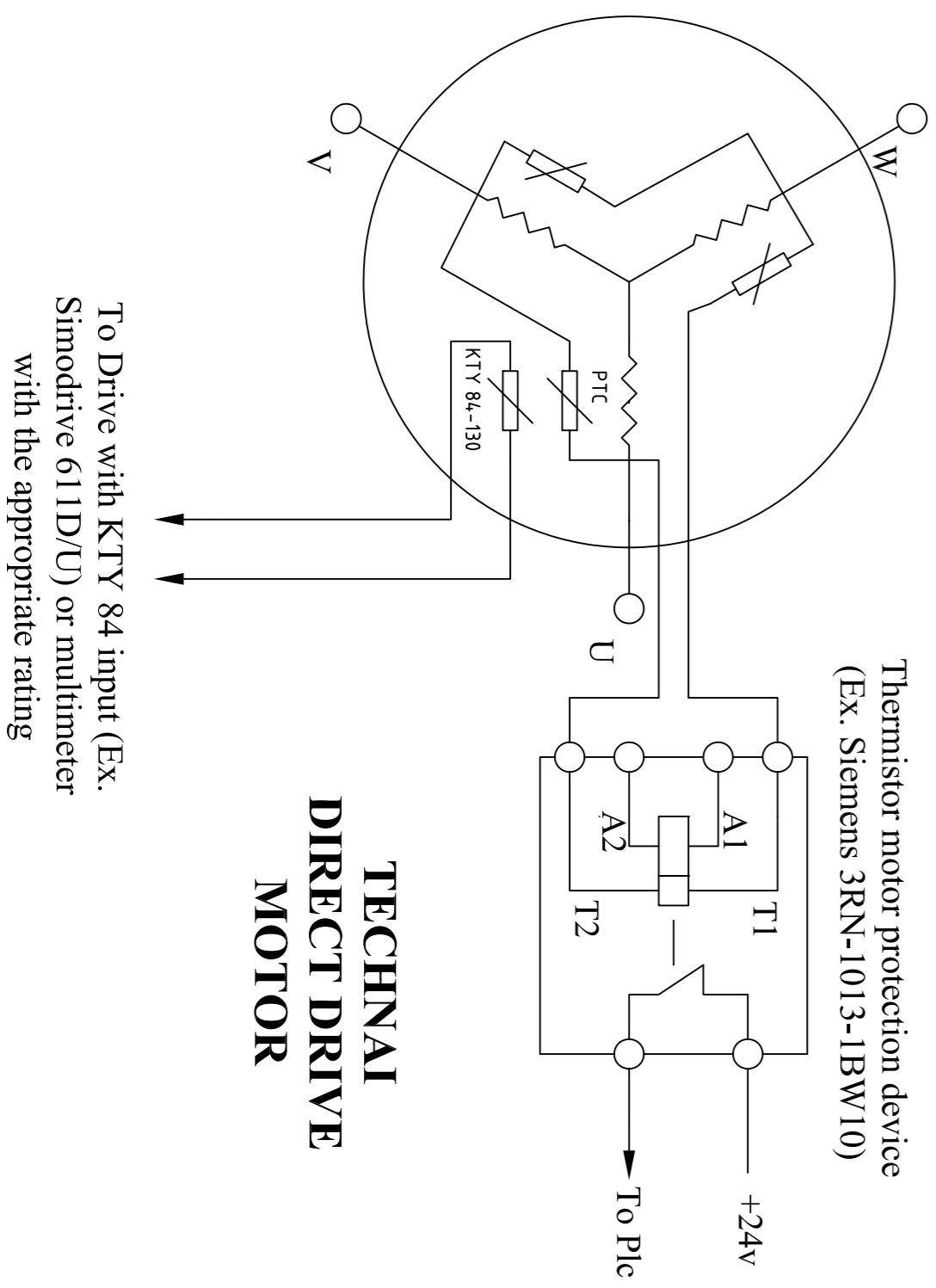
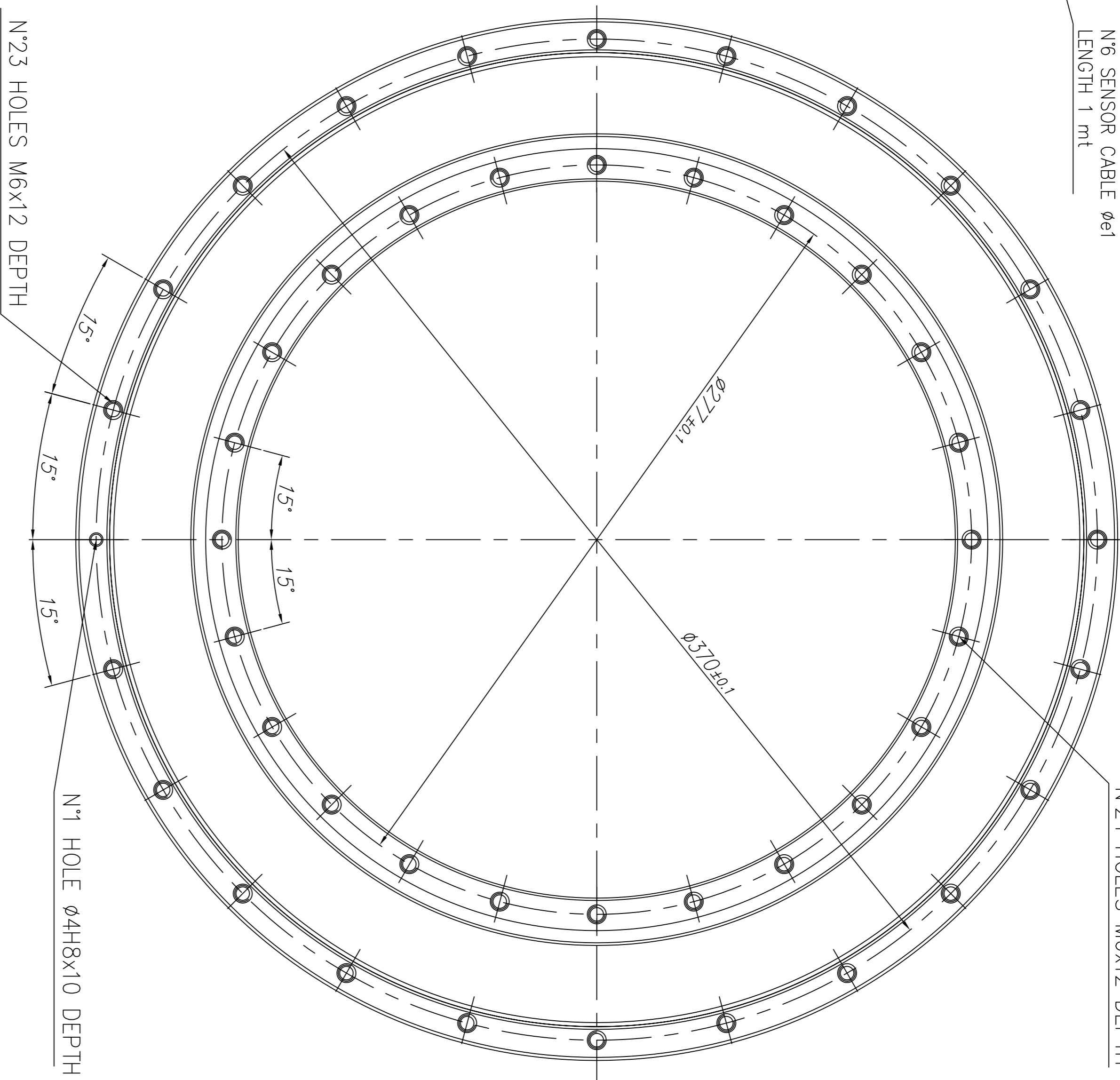
Water Cooling IN  
Water Cooling OUT

SECTION "A-A"



N°3 MOTOR CABLE  $\phi 5.3$   
LENGTH 1 mt

N°6 SENSOR CABLE  $\phi e1$   
LENGTH 1 mt

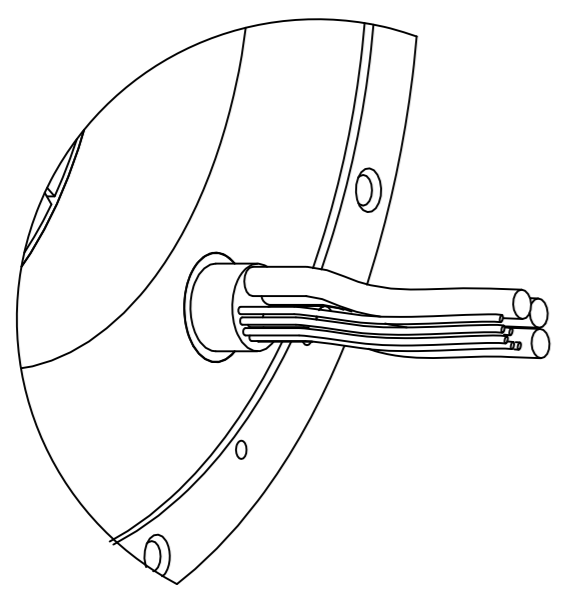


To Drive with KTY 84 input (Ex:  
Simodrive 611D/U) or multimeter  
with the appropriate rating

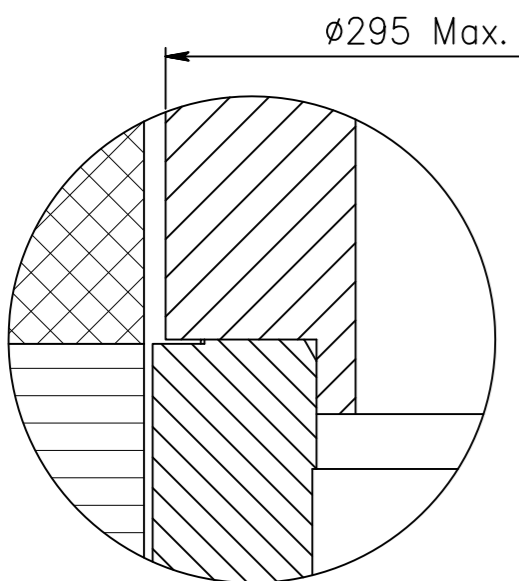
Thermistor motor protection device  
(Ex: Siemens 3RN-1013-1BW10)

**TECHNAI  
DIRECT DRIVE  
MOTOR**

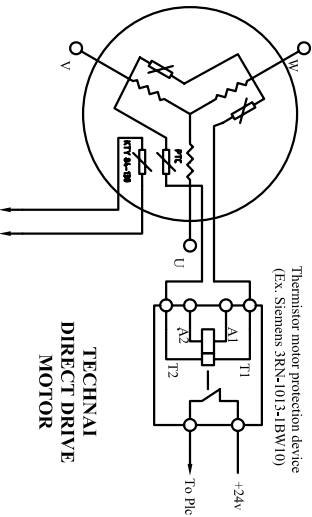
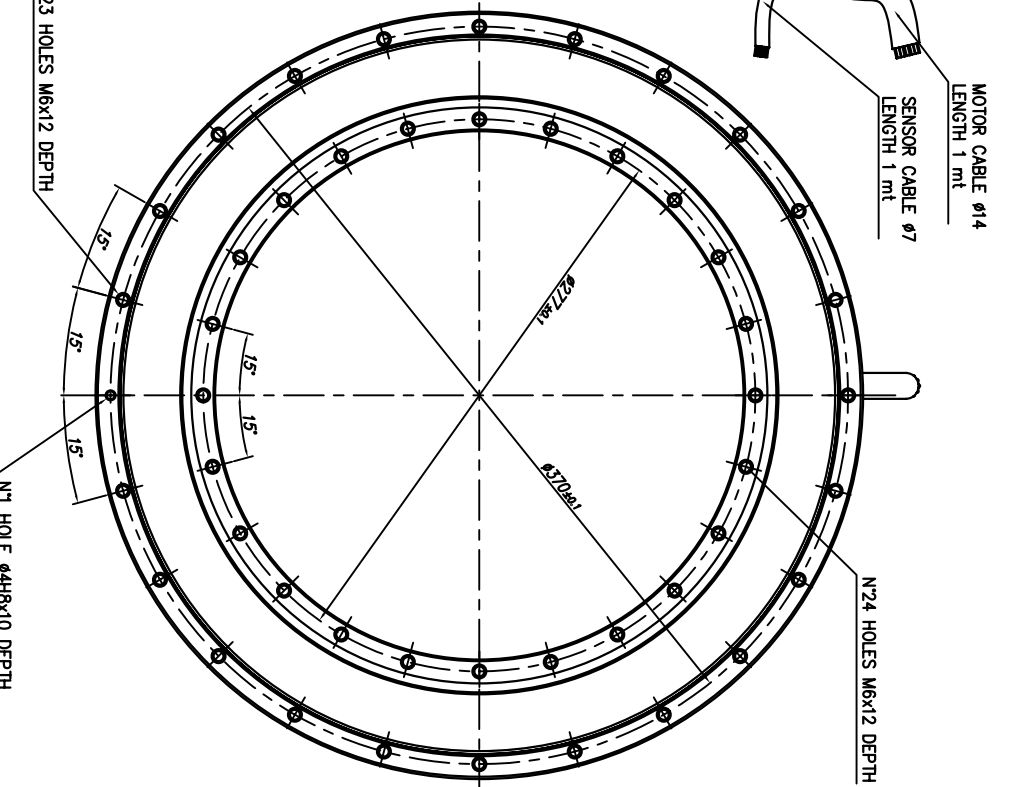
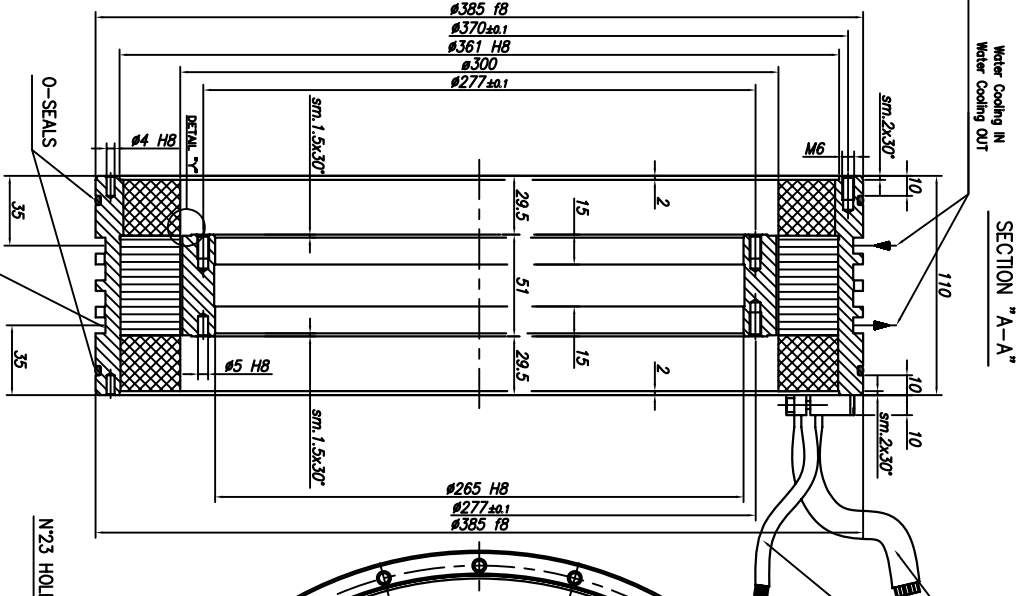
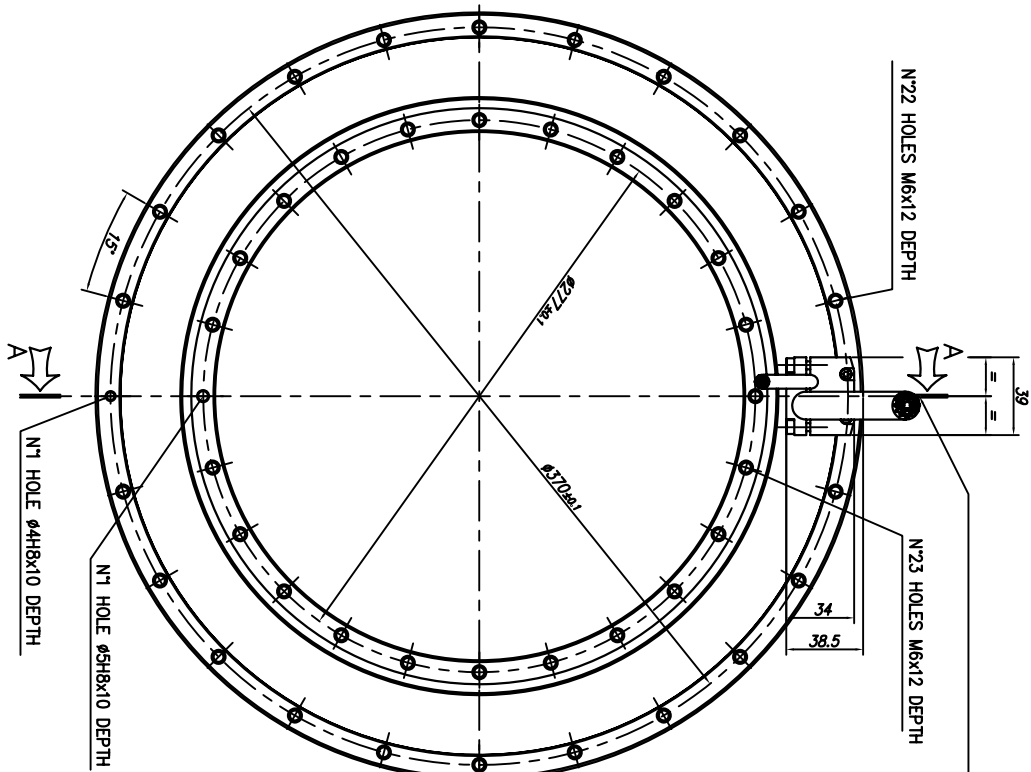
CABLE OUTPUT  
CONFIGURATION  
MF



DETAIL "Y"  
ROTOR INTERFACE TO  
CUSTOMER SHAFT



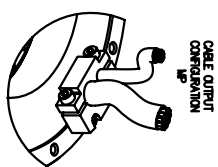
PROPRIETÀ	REG. PAT.	TRACIA	PROTEZIONE
TECHNAI	TECHNAI	TECHNAI	TECHNAI
GENERAL ASSEMBLY			
MODEL	NAME	CODE	VERSION
360	ROTOR-STATOR KIT	MK-CI	1
SHEET 1 OF 1			



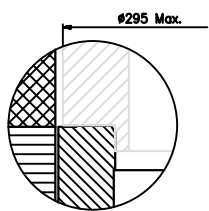
Thermistor motor protection device  
(Ex. Siemens 3RN-1013-1BW10)

**TECHNAI  
DIRECT DRIVE  
MOTOR**

To Drive with KTY 84 input (Ex. Simodrive 61DDU) or multimeter with the appropriate rating.



CABLE OUTPUT CONNECTION



DETAIL 'A'  
ROTOR INTERFACE TO  
CUSTOMER SENSOR

SECTION "A-A"

Water Cooling In  
Water Cooling Out

MOTOR CABLE  $\phi 14$   
LENGTH 1 mt

SENSOR CABLE  $\phi 7$   
LENGTH 1 mt

GENERAL ASSEMBLY	
ITEM	DESCRIPTION
1	ROTOR-STATOR KIT MK-CI-380
2	MK-CI-360-050 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
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