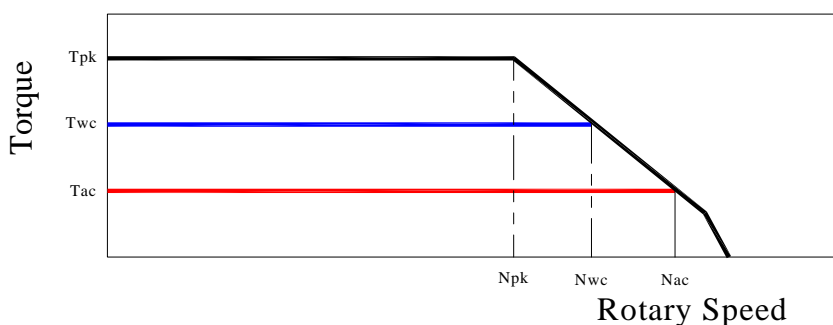


## TORQUE MOTOR - MK-CI 360-150 WA

Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	T <sub>pk</sub>	Nm	2173
Continuos Torque (Water Cooling Dt100)	T <sub>wc</sub>	Nm	1240
Continuos Torque (Air Cooling Dt100)	T <sub>ac</sub>	Nm	504
Stall Torque (Water Cooling)	T <sub>wsc</sub>	Nm	986
Stall Torque (Air Cooling)	T <sub>sac</sub>	Nm	386
Ripple Torque (Cogging Torque)	Tr	Nm	5,4
Power Loss at T <sub>wc</sub>	P <sub>wc</sub>	Kw	7
Power Loss at T <sub>ac</sub>	P <sub>ac</sub>	Kw	1,1
Termal Resistance Water Cooling	R <sub>thWc</sub>	Kw	0,01
Termal Resistance Air Cooling	R <sub>thAc</sub>	Kw	0,09
Torque Constant	K <sub>t</sub>	Nm/a	29,1
Back EMF Constant	K <sub>e</sub>	V/1000 Rpm	1797
Maximum Speed at I <sub>pk</sub> at 600 Vdc	N <sub>pk</sub>	rpm	65
Maximum Speed at I <sub>wc</sub> at 600 Vdc	N <sub>wc</sub>	rpm	145
Maximum Speed at I <sub>ac</sub> at 600 Vdc	N <sub>ac</sub>	rpm	210
Winding Resistance (Phase to Phase)	R <sub>20</sub>	Ω	1,65
Winding Inductance (Phase to Phase)	L	mh	12,6
Peak Current	I <sub>pk</sub>	Arms	115
Continuos Current (Water Cooling Dt100)	I <sub>wc</sub>	Arms	45
Continuos Current (Air Cooling Dt100)	I <sub>ac</sub>	Arms	18
Stall Current at 0 Speed (Water Cooling)	I <sub>wsc</sub>	Arms	34,3
Stall Current at 0 Speed (Air Cooling)	I <sub>sac</sub>	Arms	13,6
Maximum Winding Temperature		°C	130
Height of Rotor		mm	150
Height of Stator		mm	210
Stator jacket outer diameter		mm	385

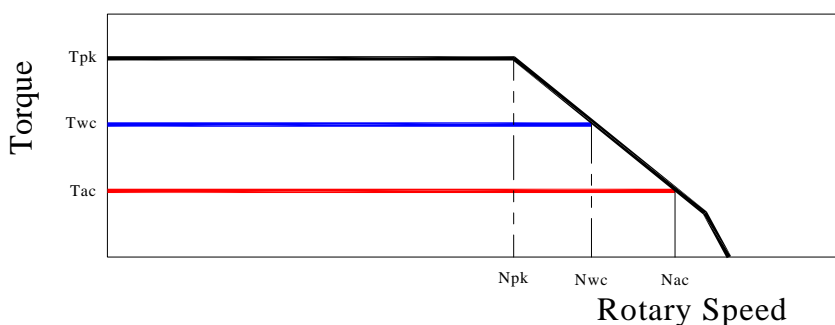
### Torque diagram



## TORQUE MOTOR - MK-CI 360-150 WB

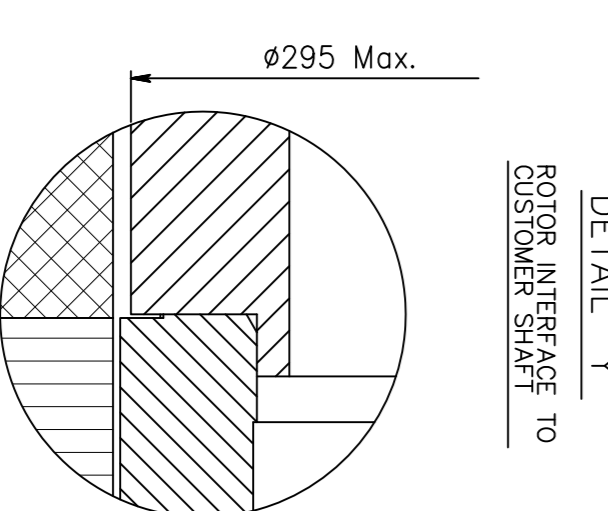
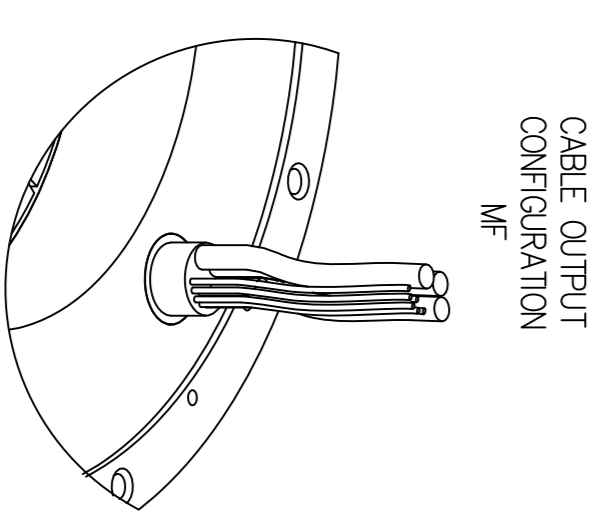
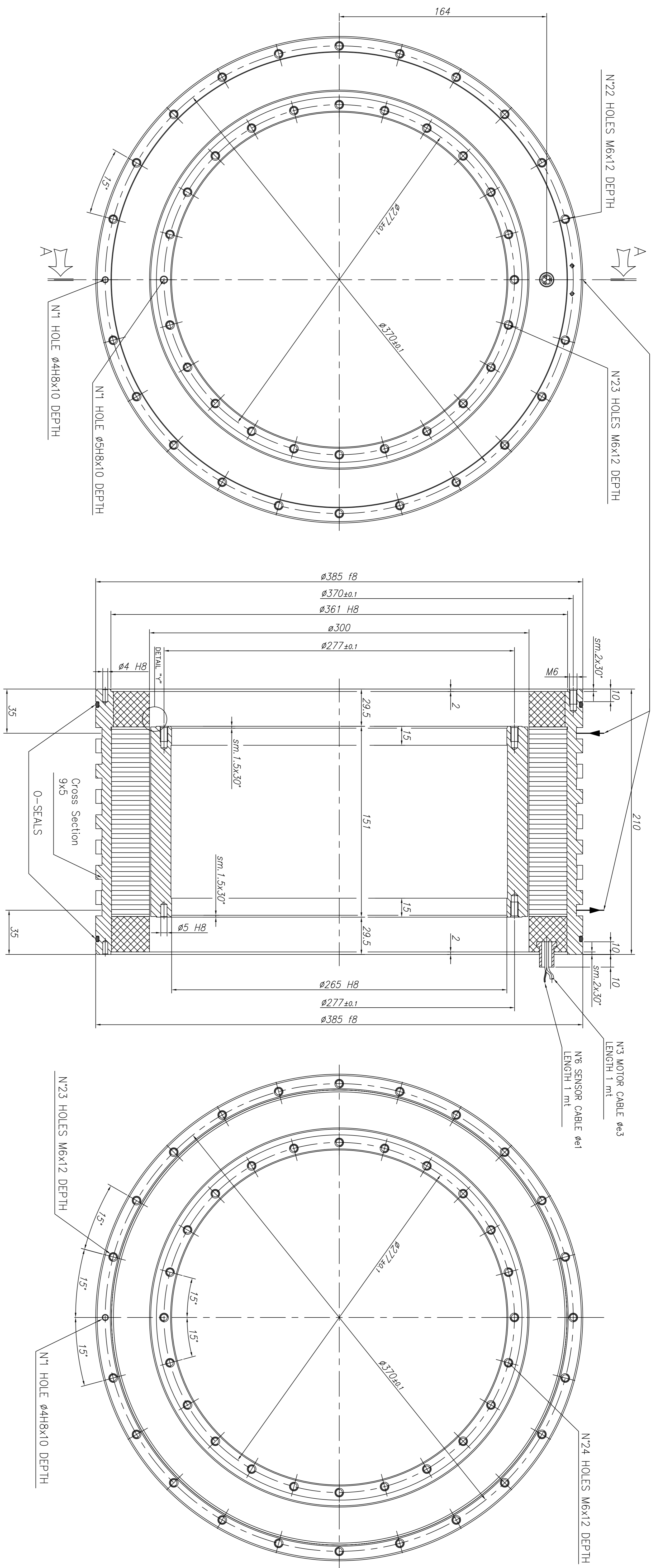
Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	T <sub>pk</sub>	Nm	2120
Continuos Torque (Water Cooling Dt100)	T <sub>wc</sub>	Nm	1262
Continuos Torque (Air Cooling Dt100)	T <sub>ac</sub>	Nm	513
Stall Torque (Water Cooling)	T <sub>wsc</sub>	Nm	1014
Stall Torque (Air Cooling)	T <sub>sac</sub>	Nm	394
Ripple Torque (Cogging Torque)	T <sub>r</sub>	Nm	5,4
Power Loss at T <sub>wc</sub>	P <sub>wc</sub>	Kw	7
Power Loss at T <sub>ac</sub>	P <sub>ac</sub>	Kw	1,1
Termal Resistance Water Cooling	R <sub>thWc</sub>	Kw	0,01
Termal Resistance Air Cooling	R <sub>thAc</sub>	Kw	0,09
Torque Constant	K <sub>t</sub>	Nm/a	19
Back EMF Constant	K <sub>e</sub>	V/1000 Rpm	1172
Maximum Speed at I <sub>pk</sub> at 600 Vdc	N <sub>pk</sub>	rpm	120
Maximum Speed at I <sub>wc</sub> at 600 Vdc	N <sub>wc</sub>	rpm	240
Maximum Speed at I <sub>ac</sub> at 600 Vdc	N <sub>ac</sub>	rpm	340
Winding Resistance (Phase to Phase)	R <sub>20</sub>	Ω	0,67
Winding Inductance (Phase to Phase)	L	mh	5,37
Peak Current	I <sub>pk</sub>	Arms	173
Continuos Current (Water Cooling Dt100)	I <sub>wc</sub>	Arms	71
Continuos Current (Air Cooling Dt100)	I <sub>ac</sub>	Arms	28
Stall Current at 0 Speed (Water Cooling)	I <sub>wsc</sub>	Arms	54
Stall Current at 0 Speed (Air Cooling)	I <sub>sac</sub>	Arms	21,5
Maximum Winding Temperature		°C	130
Height of Rotor		mm	150
Height of Stator		mm	210
Stator jacket outer diameter		mm	385

### Torque diagram

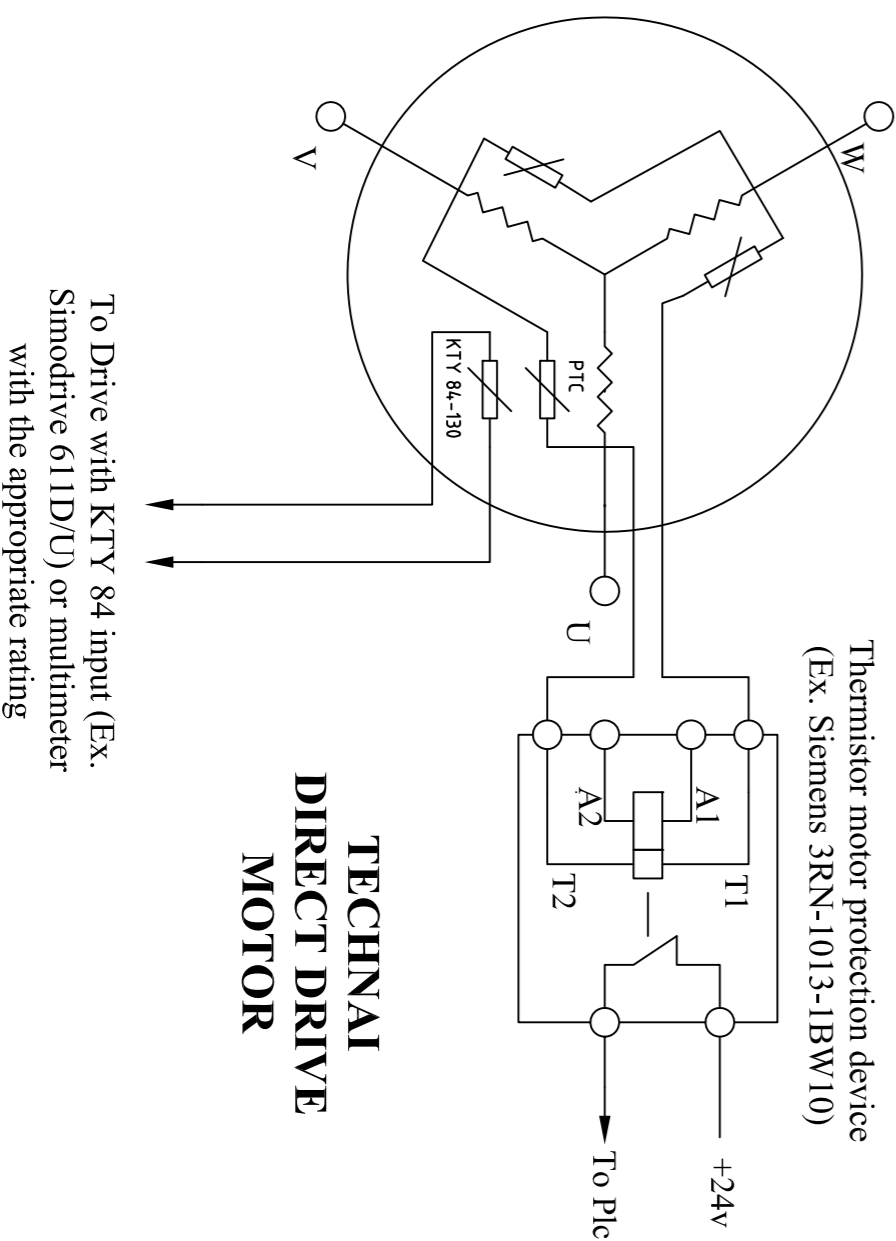


Water Cooling IN  
Water Cooling OUT

SECTION "A-A"



TECHNAI  
DIRECT DRIVE  
MOTOR

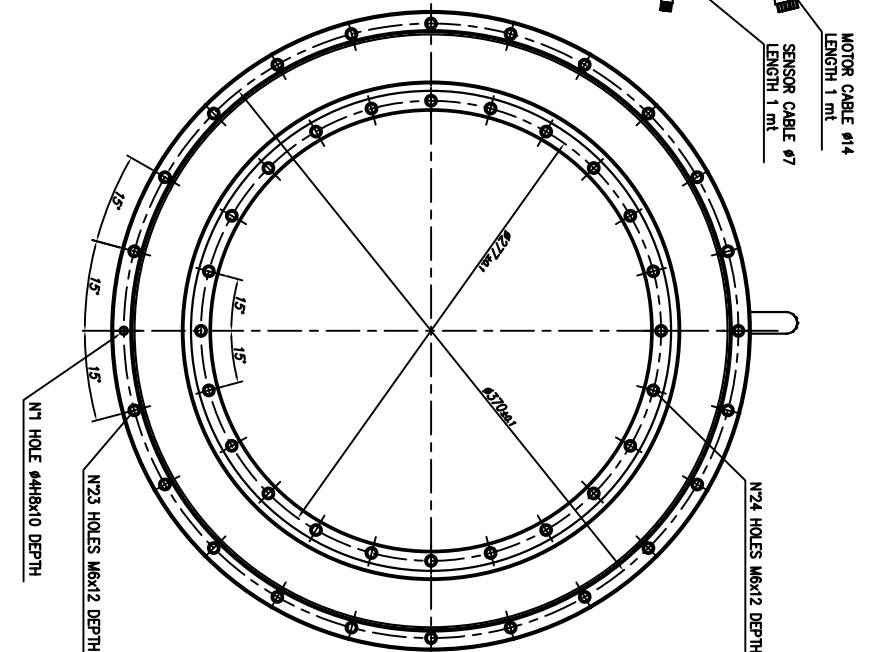
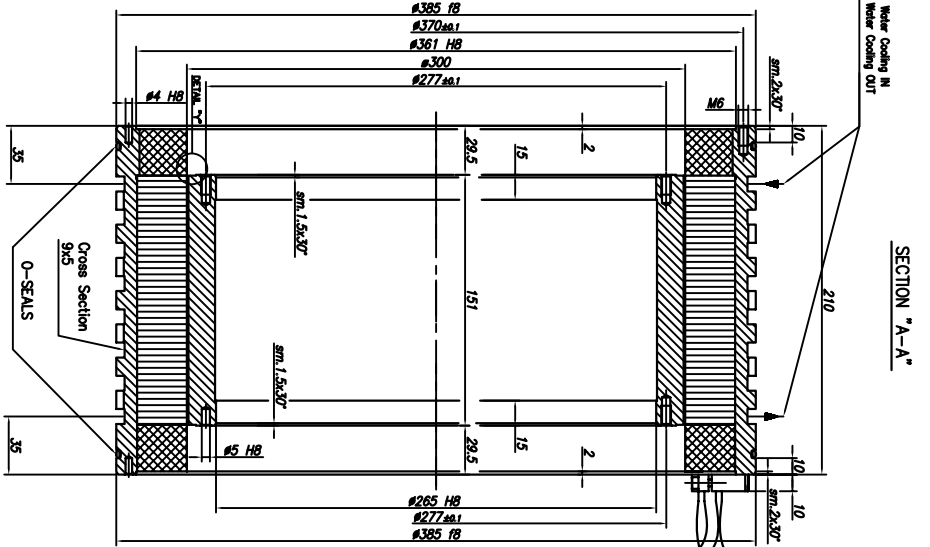
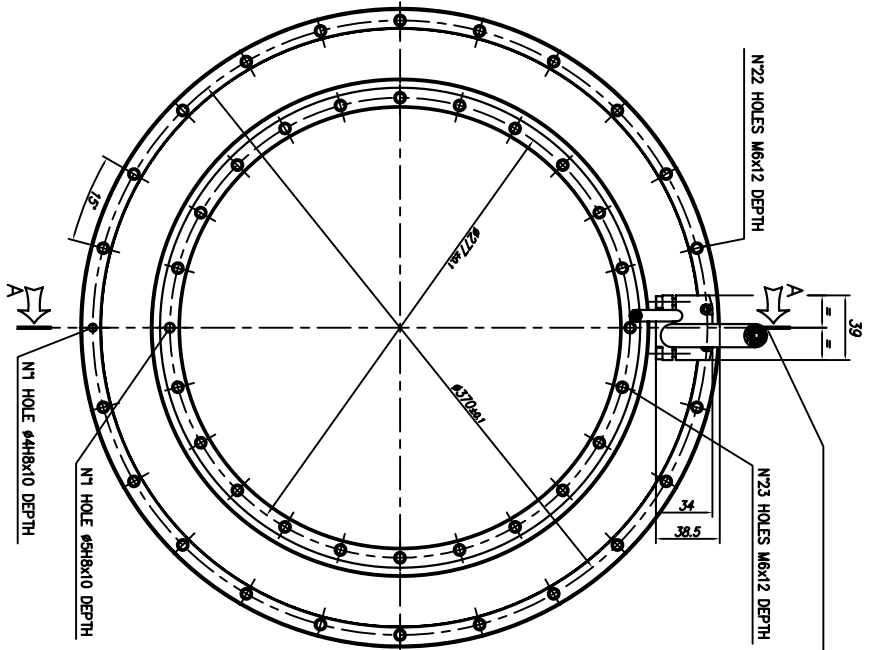


Thermistor motor protection device  
(Ex. Siemens 3RN-1013-1BW10)

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

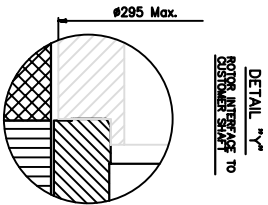
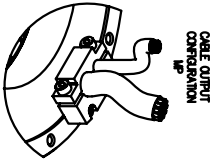
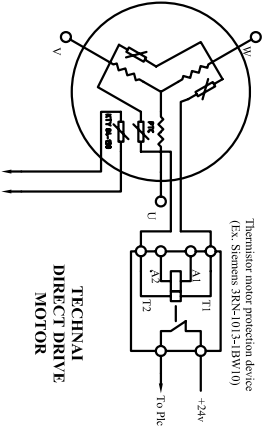
NO.	REVISION	DATE	BY	CHK
1		13/03/2008		

**TECHNAI**  
 COMPANY: GENERAL ASSEMBLY  
 NAME: ROTOR-STATOR KIT MK-CI-360  
 CODE: MK-CI-360-150 MF  
 SHEET: 1 OF 1



MOTOR CABLE #14  
LENGTH 1 mt

SENSOR CABLE #7  
LENGTH 1 mt



GENERAL ASSEMBLY	
ITEM	DESCRIPTION
1	TECHNICAL ROTOR-STATOR KIT MK-CI-380
2	MK-CI-360-150 MP
3	1.57
4	1.57
5	1.57
6	1.57
7	1.57
8	1.57
9	1.57
10	1.57
11	1.57
12	1.57
13	1.57
14	1.57
15	1.57
16	1.57
17	1.57
18	1.57
19	1.57
20	1.57
21	1.57
22	1.57
23	1.57
24	1.57
25	1.57
26	1.57
27	1.57
28	1.57
29	1.57
30	1.57
31	1.57
32	1.57
33	1.57
34	1.57
35	1.57
36	1.57
37	1.57
38	1.57
39	1.57
40	1.57
41	1.57
42	1.57
43	1.57
44	1.57
45	1.57
46	1.57
47	1.57
48	1.57
49	1.57
50	1.57
51	1.57
52	1.57
53	1.57
54	1.57
55	1.57
56	1.57
57	1.57
58	1.57
59	1.57
60	1.57
61	1.57
62	1.57
63	1.57
64	1.57
65	1.57
66	1.57
67	1.57
68	1.57
69	1.57
70	1.57
71	1.57
72	1.57
73	1.57
74	1.57
75	1.57
76	1.57
77	1.57
78	1.57
79	1.57
80	1.57
81	1.57
82	1.57
83	1.57
84	1.57
85	1.57
86	1.57
87	1.57
88	1.57
89	1.57
90	1.57
91	1.57
92	1.57
93	1.57
94	1.57
95	1.57
96	1.57
97	1.57
98	1.57
99	1.57
100	1.57