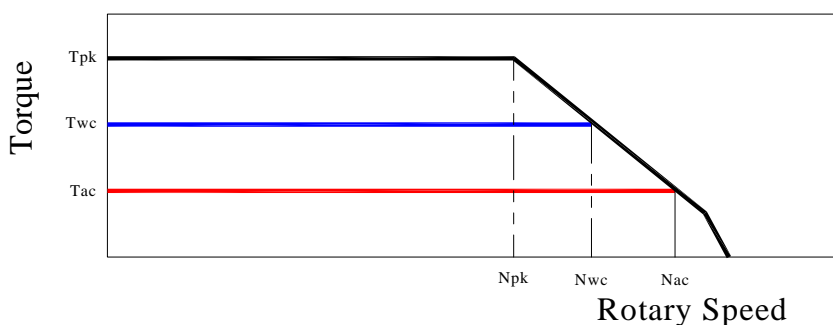


## TORQUE MOTOR - MK-CIC 360-070 WA

Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	T <sub>pk</sub>	Nm	1013
Continuos Torque (Water Cooling Dt100)	T <sub>wc</sub>	Nm	587
Continuos Torque (Air Cooling Dt100)	T <sub>ac</sub>	Nm	249
Stall Torque (Water Cooling)	T <sub>wsc</sub>	Nm	472
Stall Torque (Air Cooling)	T <sub>sac</sub>	Nm	190
Ripple Torque (Cogging Torque)	Tr	Nm	2,5
Power Loss at T <sub>wc</sub>	P <sub>wc</sub>	Kw	3,65
Power Loss at T <sub>ac</sub>	P <sub>ac</sub>	Kw	0,62
Termal Resistance Water Cooling	R <sub>thWc</sub>	Kw	0,03
Termal Resistance Air Cooling	R <sub>thAc</sub>	Kw	0,16
Torque Constant	K <sub>t</sub>	Nm/a	21,3
Back EMF Constant	K <sub>e</sub>	V/1000 Rpm	1313
Maximum Speed at I <sub>pk</sub> at 600 Vdc	N <sub>pk</sub>	rpm	100
Maximum Speed at I <sub>wc</sub> at 600 Vdc	N <sub>wc</sub>	rpm	200
Maximum Speed at I <sub>ac</sub> at 600 Vdc	N <sub>ac</sub>	rpm	290
Winding Resistance (Phase to Phase)	R <sub>20</sub>	Ω	2
Winding Inductance (Phase to Phase)	L	mh	21,3
Peak Current	I <sub>pk</sub>	Arms	73,5
Continuos Current (Water Cooling Dt100)	I <sub>wc</sub>	Arms	29,4
Continuos Current (Air Cooling Dt100)	I <sub>ac</sub>	Arms	12
Stall Current at 0 Speed (Water Cooling)	I <sub>wsc</sub>	Arms	22,4
Stall Current at 0 Speed (Air Cooling)	I <sub>sac</sub>	Arms	9,2
Maximum Winding Temperature		°C	130
Height of Rotor		mm	70
Height of Stator		mm	110
Stator jacket outer diameter		mm	385

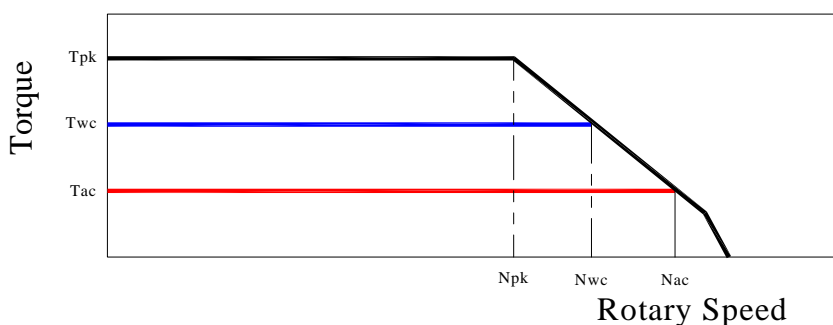
### Torque diagram



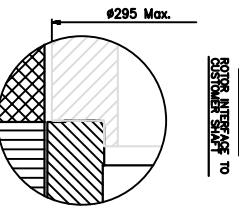
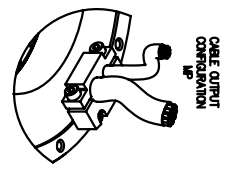
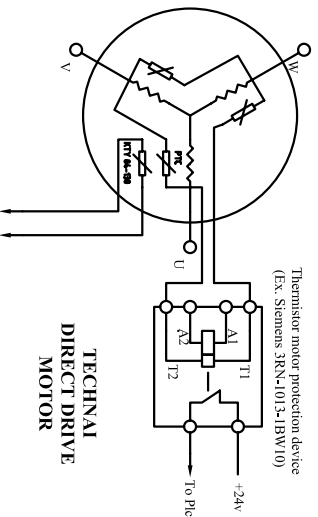
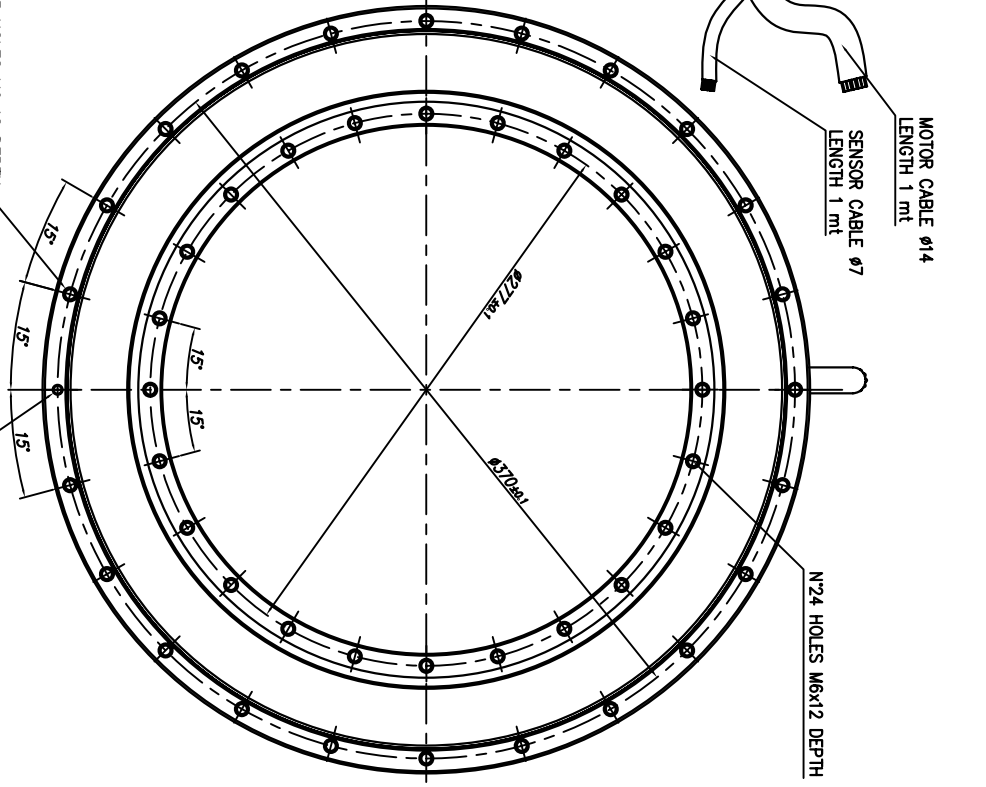
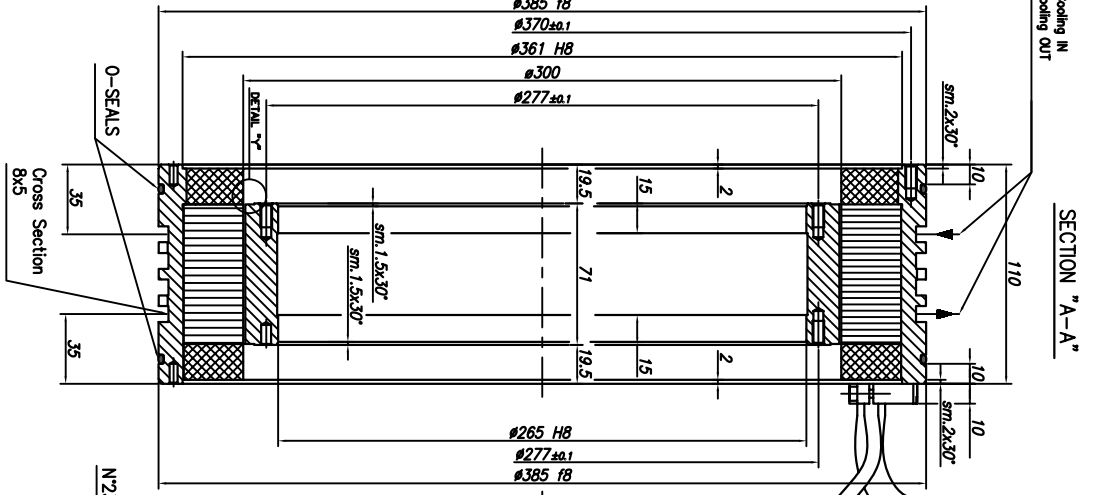
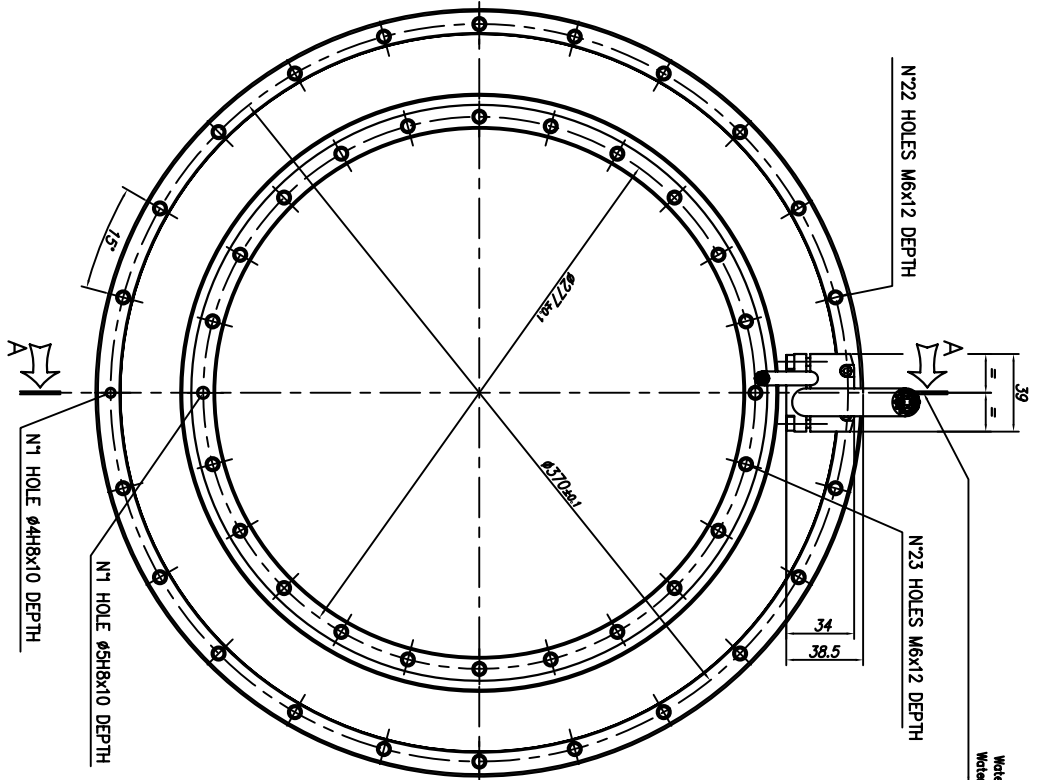
## TORQUE MOTOR - MK-CIC 360-070 WB

Motor specification	Symbol	Unit	
Number of pole	P		66
Peak Torque	T <sub>pk</sub>	Nm	1013
Continuos Torque (Water Cooling Dt100)	T <sub>wc</sub>	Nm	584
Continuos Torque (Air Cooling Dt100)	T <sub>ac</sub>	Nm	247
Stall Torque (Water Cooling)	T <sub>wsc</sub>	Nm	468
Stall Torque (Air Cooling)	T <sub>sac</sub>	Nm	190
Ripple Torque (Cogging Torque)	Tr	Nm	2,5
Power Loss at T <sub>wc</sub>	P <sub>wc</sub>	Kw	3,65
Power Loss at T <sub>ac</sub>	P <sub>ac</sub>	Kw	0,62
Termal Resistance Water Cooling	R <sub>thWc</sub>	Kw	0,03
Termal Resistance Air Cooling	R <sub>thAc</sub>	Kw	0,16
Torque Constant	K <sub>t</sub>	Nm/a	13,6
Back EMF Constant	K <sub>e</sub>	V/1000 Rpm	839
Maximum Speed at I <sub>pk</sub> at 600 Vdc	N <sub>pk</sub>	rpm	170
Maximum Speed at I <sub>wc</sub> at 600 Vdc	N <sub>wc</sub>	rpm	340
Maximum Speed at I <sub>ac</sub> at 600 Vdc	N <sub>ac</sub>	rpm	460
Winding Resistance (Phase to Phase)	R <sub>20</sub>	Ω	0,83
Winding Inductance (Phase to Phase)	L	mh	6
Peak Current	I <sub>pk</sub>	Arms	116
Continuos Current (Water Cooling Dt100)	I <sub>wc</sub>	Arms	45,6
Continuos Current (Air Cooling Dt100)	I <sub>ac</sub>	Arms	19
Stall Current at 0 Speed (Water Cooling)	I <sub>wsc</sub>	Arms	35
Stall Current at 0 Speed (Air Cooling)	I <sub>sac</sub>	Arms	14,5
Maximum Winding Temperature		°C	130
Height of Rotor		mm	70
Height of Stator		mm	110
Stator jacket outer diameter		mm	385

### Torque diagram







GENERAL ASSEMBLY	
ITEM	DESCRIPTION
1	ROTOR-STATOR KIT MK-CDC-380
2	MK-CDC-380-070 MP
3	1.01
4	1.01
5	1.01
6	1.01
7	1.01
8	1.01
9	1.01
10	1.01
11	1.01
12	1.01
13	1.01
14	1.01
15	1.01
16	1.01
17	1.01
18	1.01
19	1.01
20	1.01
21	1.01
22	1.01
23	1.01
24	1.01
25	1.01
26	1.01
27	1.01
28	1.01
29	1.01
30	1.01
31	1.01
32	1.01
33	1.01
34	1.01
35	1.01
36	1.01
37	1.01
38	1.01
39	1.01
40	1.01
41	1.01
42	1.01
43	1.01
44	1.01
45	1.01
46	1.01
47	1.01
48	1.01
49	1.01
50	1.01