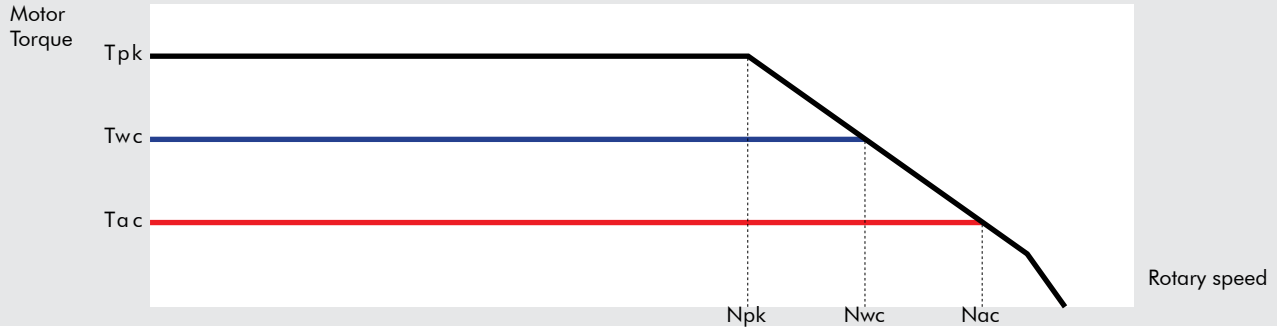
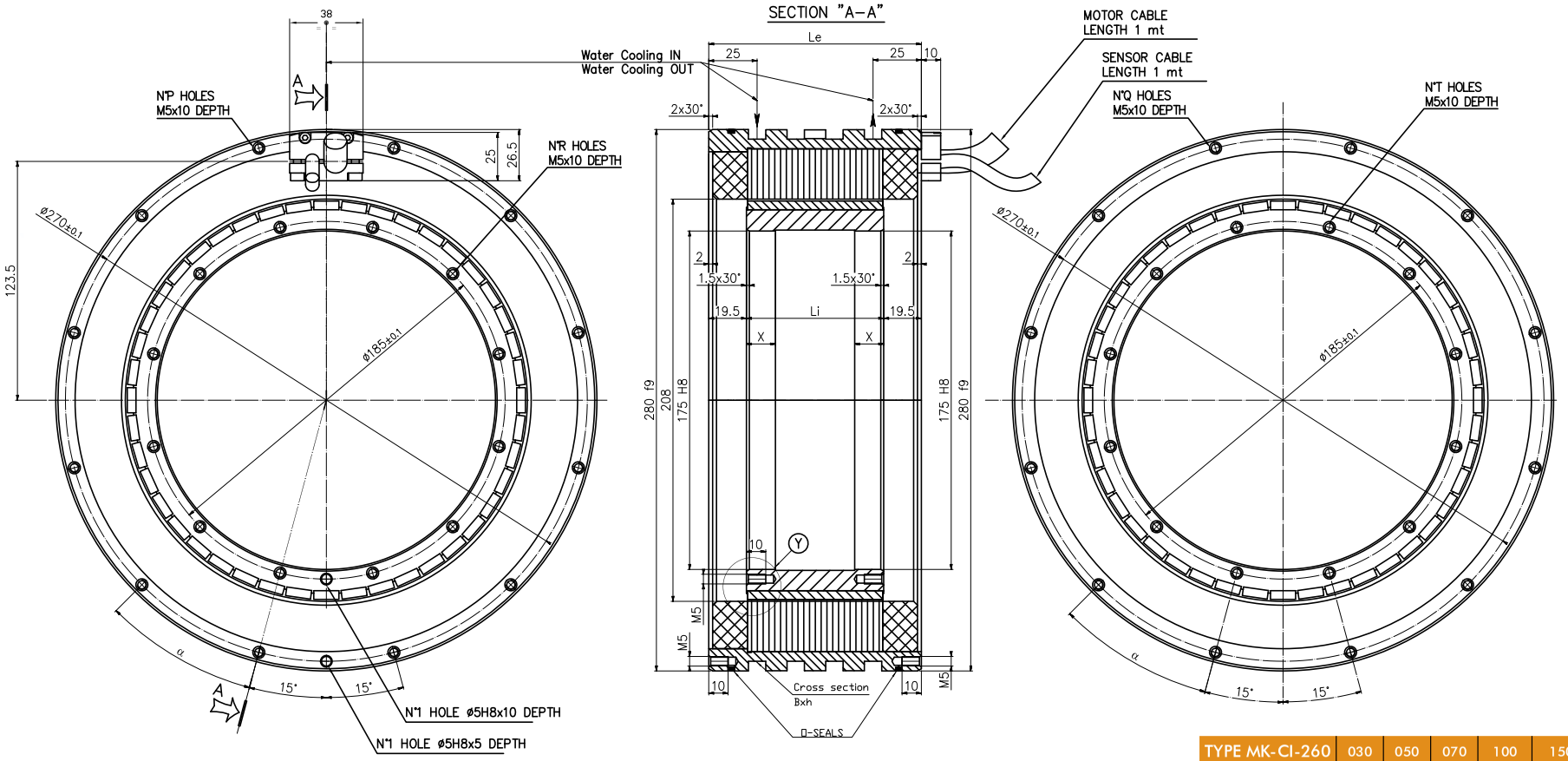
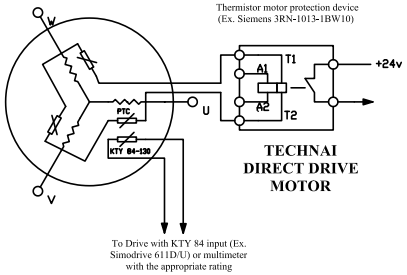
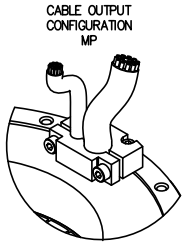
Motor Specifications TECHNAI MK-CI 260 WA/WB

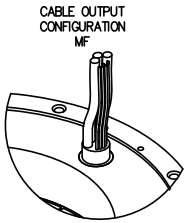
Motor Specifications	**Symbol**	**Unit**	**MK-CI 260-030**		**MK-CI 260-050**		**MK-CI 260-070**		**MK-CI 260-100**		**MK-CI 260-150**	
			WA	**WB**	**WA**	**WB**	**WA**	**WB**	**WA**	**WB**	**WA**	**WB**
Number of pole	P		44	44	44	44	44	44	44	44	44	44
Peak Torque	Tpk	Nm	173	173	288	288	402	402	580	580	873	873
Continuos Torque (Water Cooling Dt100)	Twc	Nm	97	95	163	162	225	223	321	323	480	478
Continuos Torque (Air Cooling Dt100)	Tac	Nm	39	38	65	63	91	89,5	128	126	194	192
Stall Torque (Water Cooling)	Tswc	Nm	73,7	72,5	124	123	170	169	238	247	371	365
Stall Torque (Air Cooling)	Tsac	Nm	29	29	49,6	48	70	68,3	97,5	96	150	146
Ripple Torque (Cogging Torque)	Tr	Nm	0,4	0,4	0,6	0,6	1	1	1,3	1,3	1,5	1,5
Power Loss at Twc	Pwc	KW	1,5	1,5	1,85	1,85	2,45	2,45	3	3	4,5	4,5
Power Loss at Tac	Pac	KW	0,26	0,26	2	2	0,38	0,38	0,48	0,48	0,75	0,75
Termal Resistance Water Cooling	RthWc	K/W	0,072	0,072	0,051	0,051	0,039	0,039	0,032	0,032	0,024	0,024
Termal Resistance Air Cooling	RthAc	K/W	0,419	0,419	0,326	0,326	0,267	0,267	0,210	0,210	0,140	0,140
Torque Constant	Kt	Nm/A	11,7	5,9	15,5	7,8	14,6	7,4	20,8	10,6	23,8	11,8
Back EMF Constant	Ke	V/1000 Rpm	708	357	939	469	882	449	1260	641	1427	713
Maximum Speed at Ipk at 600 Vdc	Npk	RPM	140	300	105	220	105	220	75	150	60	150
Maximum Speed at Iwc at 600 Vdc	Nwc	RPM	340	700	260	550	300	550	195	400	165	370
Maximum Speed at Iac at 600 Vdc	Nac	RPM	480	800	360	750	400	700	275	550	240	500
Winding Resistance (Phase to Phase)	R20	Ω	9,8	2,48	8	2	4,4	1,14	5,65	1,46	4,41	1,1
Winding Inductance (Phase to Phase)	L	mH	35,5	9,05	35,5	8,9	21,9	5,67	30,7	7,96	26,48	6,6
Peak Current	Ipk	Arms	21,5	42	26,2	53,4	39,6	80	39,8	80	53	106
Continuos Current (Water Cooling Dt100)	Iwc	Arms	8,5	17	10,9	21,9	15,9	31,8	15,9	31,8	21,8	43
Continuos Current (Air Cooling Dt100)	Iac	Arms	3,55	7,42	4,3	8,8	6,4	13	6,4	12,7	9	17,5
Stall Current at 0 Speed (Water Cooling)	Iswc	Arms	6,5	13	8,3	16,7	12,1	24,2	12,1	24,3	11,8	32
Stall Current at 0 Speed (Air Cooling)	Isac	Arms	2,7	5,7	3,3	6,7	4,8	10	4,8	9,7	6,7	13,3
Maximum Winding Temperature		°C	130	130	130	130	130	130	130	130	130	130
Height of Rotor		mm	30	30	50	50	70	70	100	100	150	150
Height of Stator		mm	70	70	90	90	110	110	140	140	190	190
Outer Diameter of Stator		mm	280	280	280	280	280	280	280	280	280	280

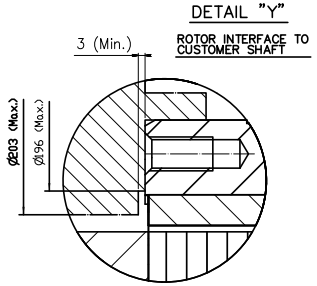












TYPE MK-CI-260		030	050	070	100	150
STATOR LENGTH	Le	70	90	110	140	190
ROTOR LENGTH	Li	31	51	71	101	151
CENTERING LENGTH	X	10	15	15	15	15
COOLING GROOVE WIDTH	B	8	8	9	8	9
COOLING GROOVE DEPTH	h	5	5	5	5	5
COOLING GROOVES	No	2	4	4	8	8
STATOR HOLES	P	12	12	12	22	22
	Q	12	12	12	24	24
ROTOR HOLES	R	12	12	12	22	22
	T	12	12	12	24	24
HOLES PITCH ANGLE	α	30°	30°	30°	15°	15°