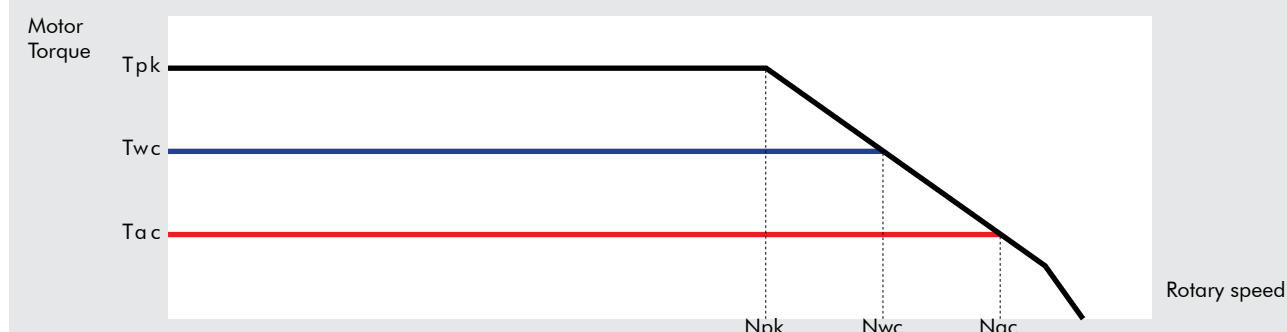
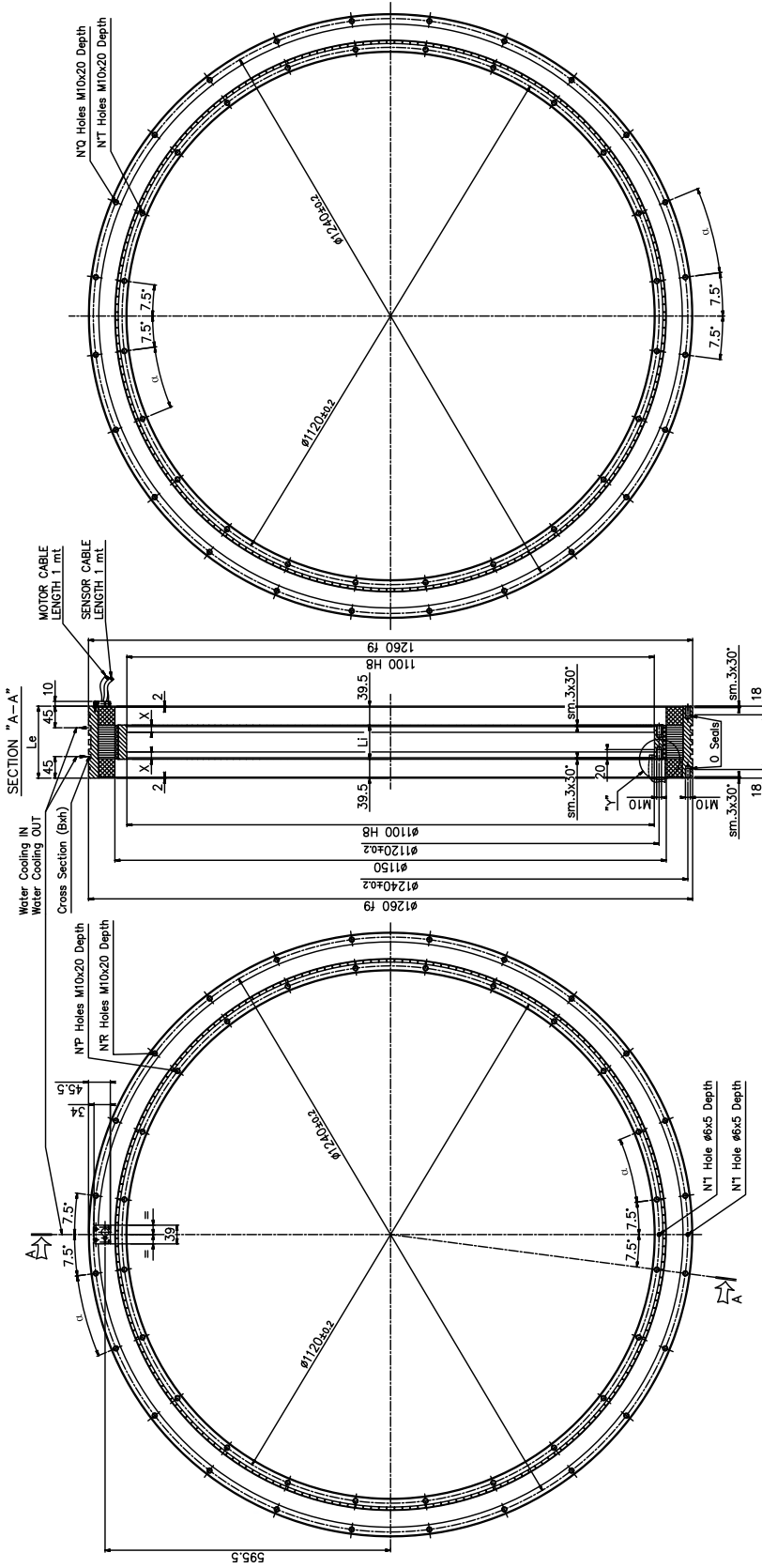


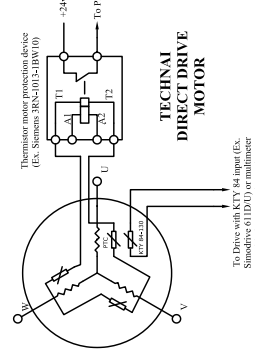
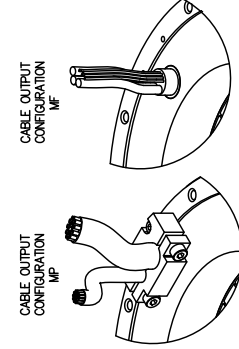
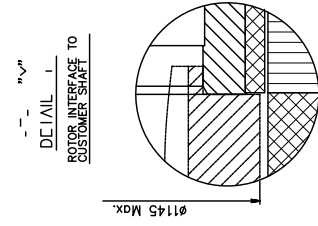
Motor Specifications TECHNAI MK-CI 1220 WA

Motor Specifications	Symbol	Unit	MK-CI 1220-030 WA	MK-CI 1220-050 WA	MK-CI 1220-070 WA	MK-CI 1220-100 WA	MK-CI 1220-150 WA
Number of pole	P		220	220	220	220	220
Peak Torque	T _{pk}	Nm	6280	10470	14570	20850	31290
Continuos Torque (Water Cooling Dt100)	T _{wc}	Nm	3377	5670	7691	11811	17300
Continuos Torque (Air Cooling Dt100)	T _{ac}	Nm	1680	2715	3627	5228	7350
Stall Torque (Water Cooling)	T _{swc}	Nm	2578	4328	5871	9016	13240
Stall Torque (Air Cooling)	T _{sac}	Nm	1280	2073	2769	3991	5608
Ripple Torque (Cogging Torque)	T _r	Nm	25	40	56	80	120
Power Loss at T _{wc}	P _{wc}	KW	7	9	10,5	16	21
Power Loss at T _{ac}	P _{ac}	KW	1,6	2	2,3	3	3,7
Termal Resistance Water Cooling	R _{thWc}	K/W	0,015	0,010	0,008	0,006	0,004
Termal Resistance Air Cooling	R _{thAc}	K/W	0,064	0,052	0,044	0,035	0,027
Torque Constant	K _t	Nm/A	78,0	130,3	150,5	147,3	220,9
Back EMF Constant	K _e	V/1000 Rpm	4721	7874	9107	8902	13353
Maximum Speed at I _{pk} at 600 Vdc	N _{pk}	RPM	18	9	7	9	3
Maximum Speed at I _{wc} at 600 Vdc	N _{wc}	RPM	45	26	23	23	14
Maximum Speed at I _{ac} at 600 Vdc	N _{ac}	RPM	67	40	35	36	23
Winding Resistance (Phase to Phase)	R ₂₀	Ω	1,5	2	1,72	1	1,4
Winding Inductance (Phase to Phase)	L	mH	13	20,7	19,43	12,8	19
Peak Current	I _{pk}	Arms	115	115	139	203	203
Continuos Current (Water Cooling Dt100)	I _{wc}	Arms	46	46	53,8	84,9	82,8
Continuos Current (Air Cooling Dt100)	I _{ac}	Arms	22	21,4	24,8	36,5	34,3
Stall Current at 0 Speed (Water Cooling)	I _{swc}	Arms	35	35	41	64,8	63,2
Stall Current at 0 Speed (Air Cooling)	I _{sac}	Arms	16,8	16,4	18,9	27,8	26,2
Maximum Winding Temperature		°C	130	130	130	130	130
Height of Rotor		mm	30	50	70	100	150
Height of Stator		mm	110	130	150	180	230
Outer Diameter of Stator		mm	1260	1260	1260	1260	1260





TYPE MK-CI-1220		030	050	070	100	150
STATOR LENGTH	Le	110	130	150	180	230
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	24	24	24	24	46
	Q	24	24	24	24	48
	R	24	24	24	24	47
ROTOR HOLES	T	24	24	24	24	48
	a	15°	15°	15°	15°	7.5°



To Drive with KTY 84 Input (Ex. Siemens 3RS5012-1BAW10) Smoother (6 LED) or multimeter with the appropriate rating

NOTE:
FOR TORQUE MOTOR TYPE MK-CI 1220-100 AND MK-CI 1220-150 ONLY CABLE OUTPUT CONFIGURATION MF