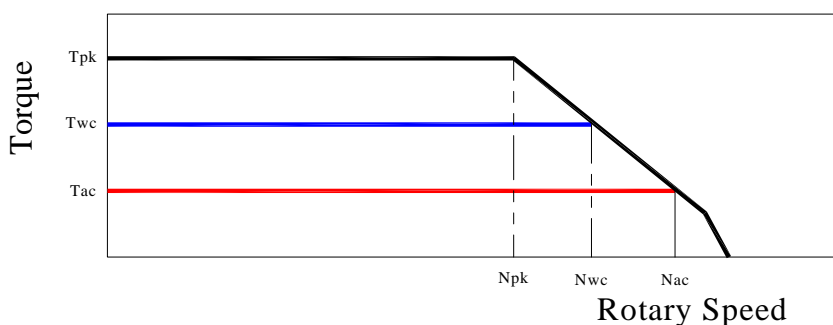


## TORQUE MOTOR - MK-CI 175-150 WA

Motor specification	Symbol	Unit	
Number of pole	P		30
Peak Torque	T <sub>pk</sub>	Nm	360
Continuos Torque (Water Cooling Dt100)	T <sub>wc</sub>	Nm	209
Continuos Torque (Air Cooling Dt100)	T <sub>ac</sub>	Nm	89
Stall Torque (Water Cooling)	T <sub>wsc</sub>	Nm	160
Stall Torque (Air Cooling)	T <sub>sac</sub>	Nm	68
Ripple Torque (Cogging Torque)	T <sub>r</sub>	Nm	10
Power Loss at T <sub>wc</sub>	P <sub>wc</sub>	Kw	2,6
Power Loss at T <sub>ac</sub>	P <sub>ac</sub>	Kw	0,46
Termal Resistance Water Cooling	R <sub>thWc</sub>	Kw	0,04
Termal Resistance Air Cooling	R <sub>thAc</sub>	Kw	0,22
Torque Constant	K <sub>t</sub>	Nm/a	15,3
Back EMF Constant	K <sub>e</sub>	V/1000 Rpm	922
Maximum Speed at I <sub>pk</sub> at 600 Vdc	N <sub>pk</sub>	rpm	130
Maximum Speed at I <sub>wc</sub> at 600 Vdc	N <sub>wc</sub>	rpm	300
Maximum Speed at I <sub>ac</sub> at 600 Vdc	N <sub>ac</sub>	rpm	410
Winding Resistance (Phase to Phase)	R <sub>20</sub>	Ω	6,2
Winding Inductance (Phase to Phase)	L	mh	38
Peak Current	I <sub>pk</sub>	Arms	33,7
Continuos Current (Water Cooling Dt100)	I <sub>wc</sub>	Arms	14,2
Continuos Current (Air Cooling Dt100)	I <sub>ac</sub>	Arms	6
Stall Current at 0 Speed (Water Cooling)	I <sub>wsc</sub>	Arms	10,8
Stall Current at 0 Speed (Air Cooling)	I <sub>sac</sub>	Arms	4,5
Maximum Winding Temperature		°C	130
Height of Rotor		mm	150
Height of Stator		mm	200
Stator jacket outer diameter		mm	198

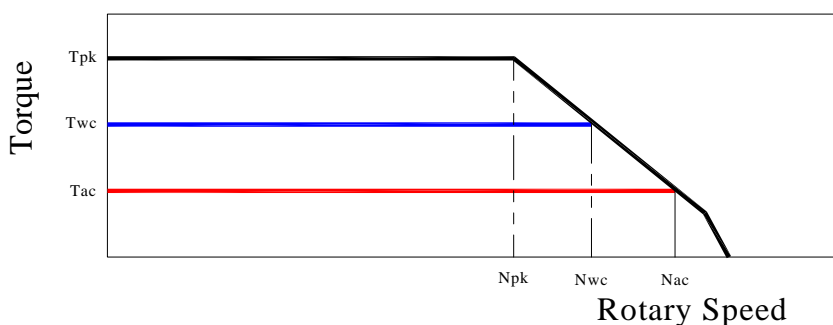
### Torque diagram

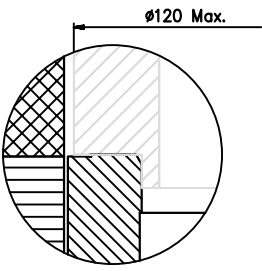
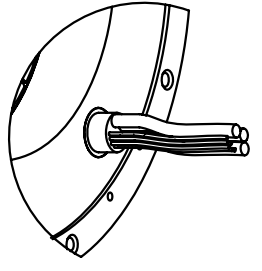
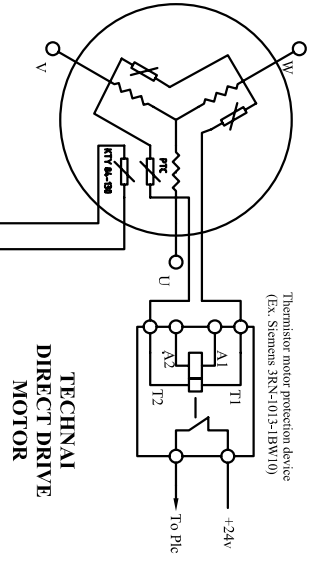
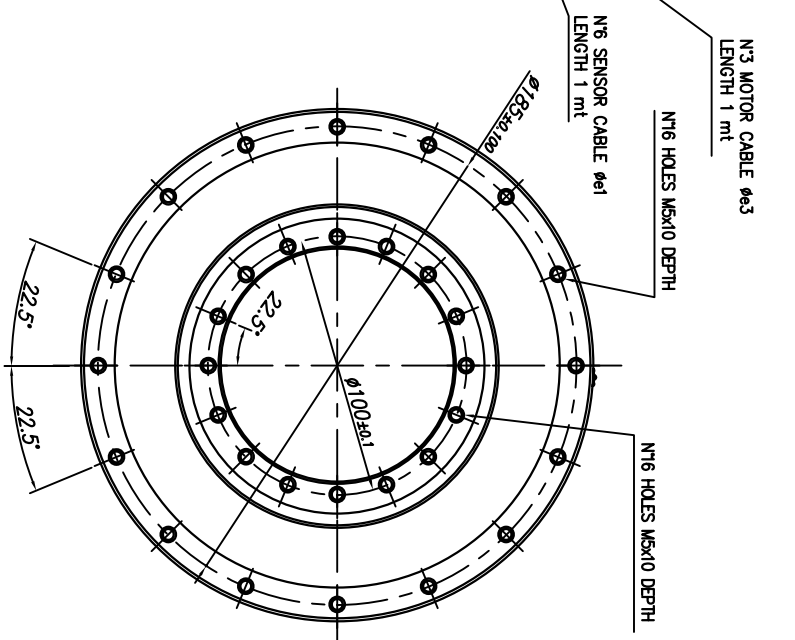
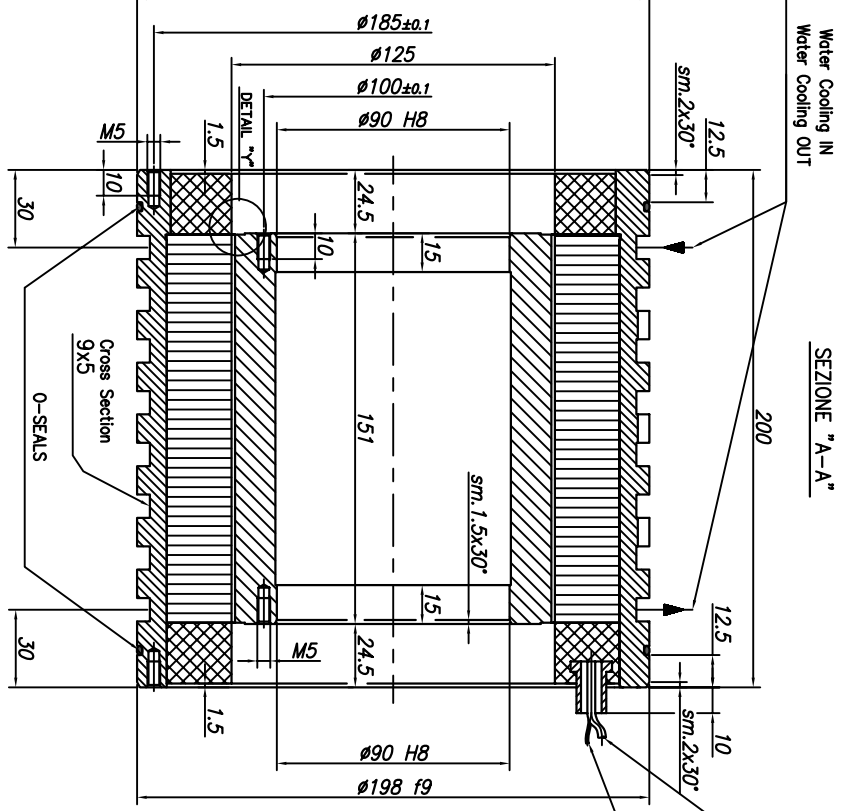
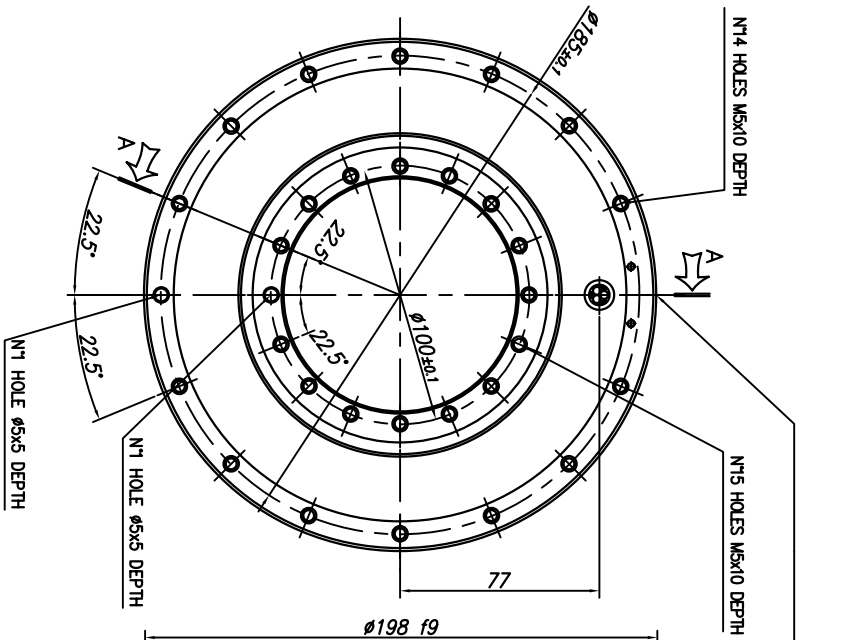


## TORQUE MOTOR - MK-CI 175-150 WB

Motor specification	Symbol	Unit	
Number of pole	P		30
Peak Torque	T <sub>pk</sub>	Nm	362
Continuos Torque (Water Cooling Dt100)	T <sub>wc</sub>	Nm	205
Continuos Torque (Air Cooling Dt100)	T <sub>ac</sub>	Nm	87
Stall Torque (Water Cooling)	T <sub>wsc</sub>	Nm	156
Stall Torque (Air Cooling)	T <sub>sac</sub>	Nm	67
Ripple Torque (Cogging Torque)	T <sub>r</sub>	Nm	10
Power Loss at T <sub>wc</sub>	P <sub>wc</sub>	Kw	2,65
Power Loss at T <sub>ac</sub>	P <sub>ac</sub>	Kw	0,47
Termal Resistance Water Cooling	R <sub>thWc</sub>	Kw	0,04
Termal Resistance Air Cooling	R <sub>thAc</sub>	Kw	0,22
Torque Constant	K <sub>t</sub>	Nm/a	7,6
Back EMF Constant	K <sub>e</sub>	V/1000 Rpm	461
Maximum Speed at I <sub>pk</sub> at 600 Vdc	N <sub>pk</sub>	rpm	360
Maximum Speed at I <sub>wc</sub> at 600 Vdc	N <sub>wc</sub>	rpm	660
Maximum Speed at I <sub>ac</sub> at 600 Vdc	N <sub>ac</sub>	rpm	850
Winding Resistance (Phase to Phase)	R <sub>20</sub>	Ω	1,7
Winding Inductance (Phase to Phase)	L	mh	9,5
Peak Current	I <sub>pk</sub>	Arms	68
Continuos Current (Water Cooling Dt100)	I <sub>wc</sub>	Arms	27,6
Continuos Current (Air Cooling Dt100)	I <sub>ac</sub>	Arms	11,7
Stall Current at 0 Speed (Water Cooling)	I <sub>wsc</sub>	Arms	21,1
Stall Current at 0 Speed (Air Cooling)	I <sub>sac</sub>	Arms	8,9
Maximum Winding Temperature		°C	130
Height of Rotor		mm	150
Height of Stator		mm	200
Stator jacket outer diameter		mm	198

### Torque diagram





TECHNAI		GENERAL ASSEMBLY	
ROTOR-STATOR KIT MK-CI 175			
MK-CI 175-150 MF			
SHEET 1 OF 1			

