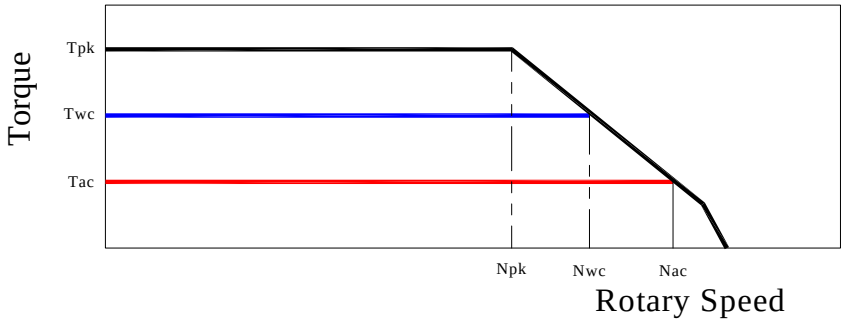
TORQUE MOTOR - MK-CIC 450-070 WA

Motor specification	Symbol	Unit	
Number of pole	P		88
Peak Torque	Tpk	Nm	1707
Continuos Torque (Water Cooling Dt100)	Twc	Nm	938
Continuos Torque (Air Cooling Dt100)	Tac	Nm	403
Stall Torque (Water Cooling)	Twsc	Nm	739
Stall Torque (Air Cooling)	Tsac	Nm	308
Ripple Torque (Cogging Torque)	Tr	Nm	10
Power Loss at Twc	Pwc	Kw	4,6
Power Loss at Tac	Pac	Kw	0,85
Termal Resistance Water Cooling	RthWc	Kw	0,02
Termal Resistance Air Cooling	RthAc	Kw	0,13
Torque Constant	Kt	Nm/a	36,5
Back EMF Constant	Ke	V/1000 Rpm	2248
Maximum Speed at Ipk at 600 Vdc	Npk	rpm	55
Maximum Speed at Iwc at 600 Vdc	Nwc	rpm	120
Maximum Speed at Iac at 600 Vdc	Nac	rpm	170
Winding Resistance (Phase to Phase)	R20	Ω	3
Winding Inductance (Phase to Phase)	L	mh	18,91
Peak Current	Ipk	Arms	68
Continuos Current (Water Cooling Dt100)	Ivc	Arms	26,8
Continuos Current (Air Cooling Dt100)	Iac	Arms	11,4
Stall Current at 0 Speed (Water Cooling)	Iswc	Arms	20,5
Stall Current at 0 Speed (Air Cooling)	Isac	Arms	8,7
Maximum Winding Temperature		°C	130
Height of Rotor		mm	50
Height of Stator		mm	110
Stator jacket outer diameter		mm	485

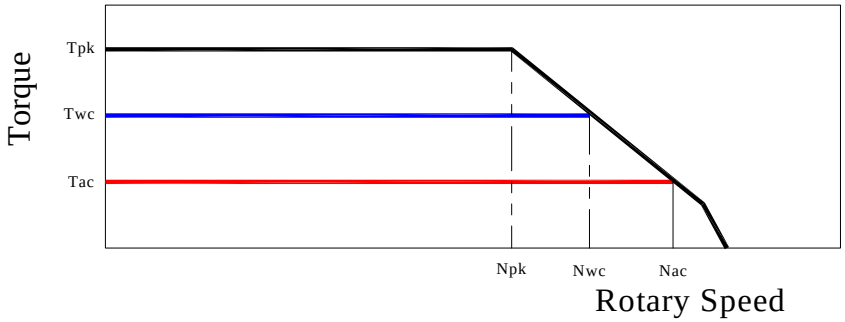
Torque diagram

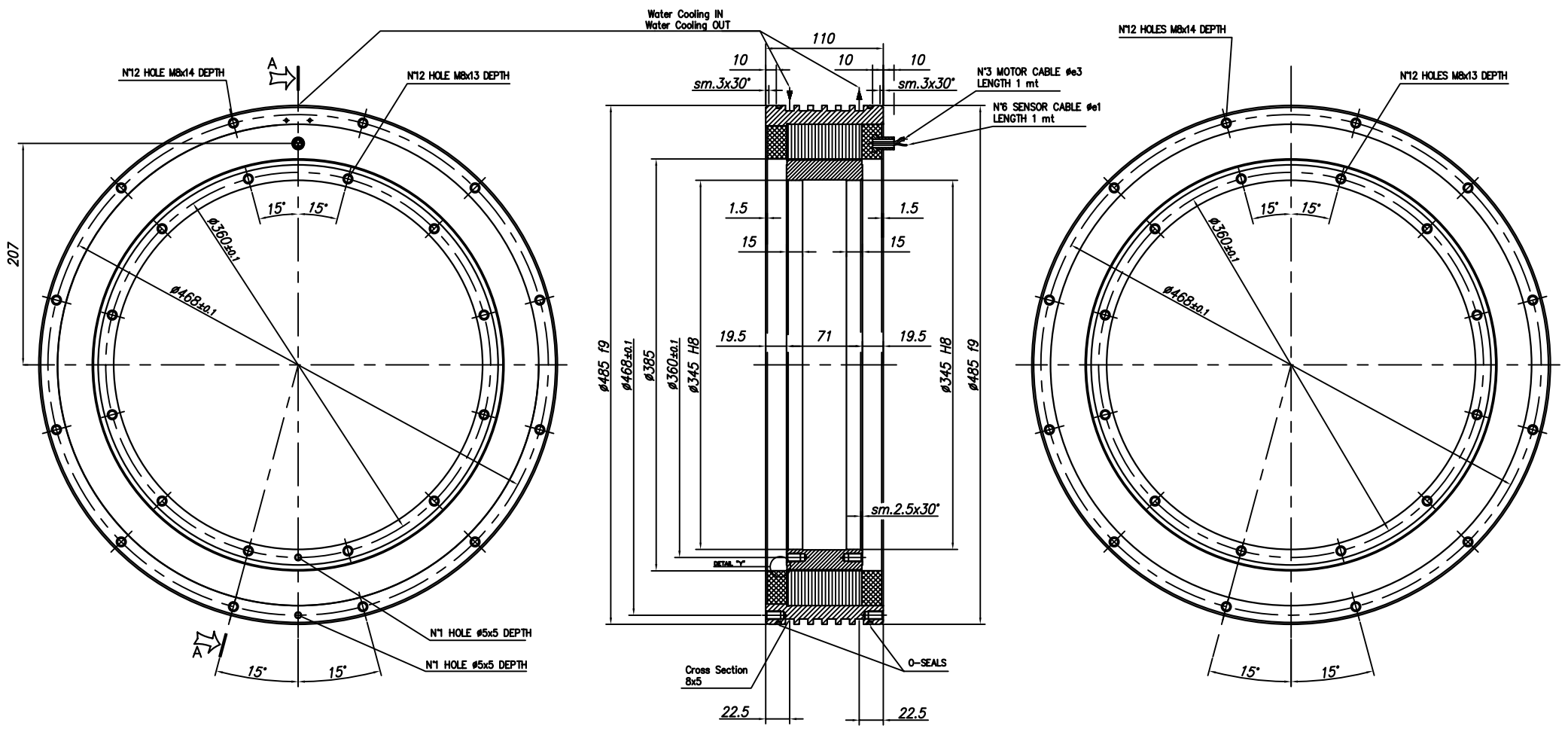


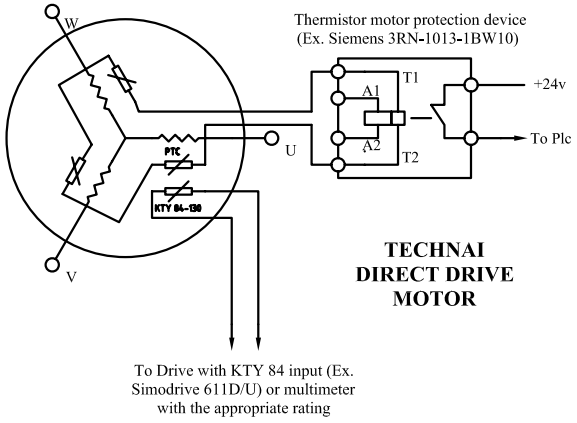
TORQUE MOTOR - MK-CIC 450-070 WB

Motor specification	Symbol	Unit	
Number of pole	P		88
Peak Torque	Tpk	Nm	1712
Continuos Torque (Water Cooling Dt100)	Twc	Nm	950
Continuos Torque (Air Cooling Dt100)	Tac	Nm	404
Stall Torque (Water Cooling)	Twsc	Nm	749
Stall Torque (Air Cooling)	Tsac	Nm	309
Ripple Torque (Cogging Torque)	Tr	Nm	10
Power Loss at Twc	Pwc	Kw	4,6
Power Loss at Tac	Pac	Kw	0,85
Termal Resistance Water Cooling	RthWc	Kw	0,02
Termal Resistance Air Cooling	RthAc	Kw	0,13
Torque Constant	Kt	Nm/a	18,76
Back EMF Constant	Ke	V/1000 Rpm	1156
Maximum Speed at Ipk at 600 Vdc	Npk	rpm	120
Maximum Speed at Iwc at 600 Vdc	Nwc	rpm	260
Maximum Speed at Iac at 600 Vdc	Nac	rpm	340
Winding Resistance (Phase to Phase)	R20	Ω	0,8
Winding Inductance (Phase to Phase)	L	mh	5
Peak Current	Ipk	Arms	131
Continuos Current (Water Cooling Dt100)	Ivc	Arms	53
Continuos Current (Air Cooling Dt100)	Iac	Arms	22,3
Stall Current at 0 Speed (Water Cooling)	Iswc	Arms	40,5
Stall Current at 0 Speed (Air Cooling)	Isac	Arms	17,1
Maximum Winding Temperature		°C	130
Height of Rotor		mm	70
Height of Stator		mm	110
Stator jacket outer diameter		mm	485

Torque diagram





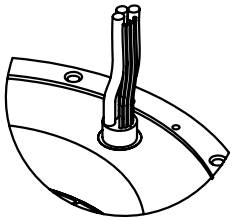


Thermistor motor protection device
(Ex. Siemens 3RN-1013-1BW10)

TECHNAI
DIRECT DRIVE
MOTOR

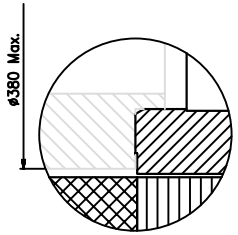
To Drive with KTY 84 input (Ex. Simodrive 611D/U) or multimeter with the appropriate rating

CABLE OUTPUT
CONFIGURATION
MF



DETAIL "Y"

ROTOR INTERFACE TO
CUSTOMER SHAFT



N. MODEL	WEIGHT Kg	DESCRIPTION	GENERAL ASSEMBLY
RAW MATERIAL		ASSEMBLY	
RAW DIMENSIONS		MACHINE	ROTOR-STATOR KIT MK-CIC 450
TREATMENT		COD.	MK-CIC 450-070 MF
DESIGNER TECHNAI	DATE 15.06.2009	SCALE	SHEET 1 of 1

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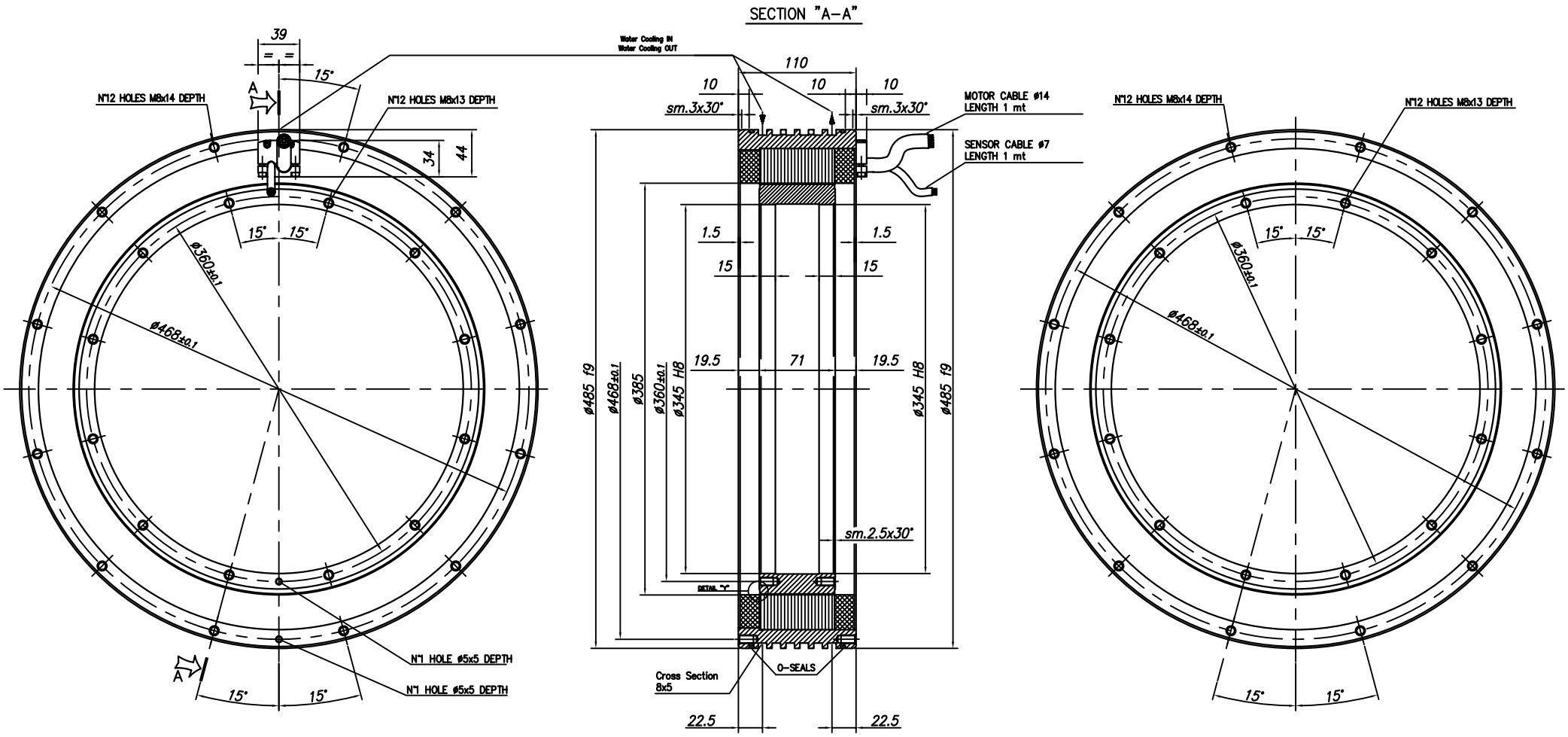
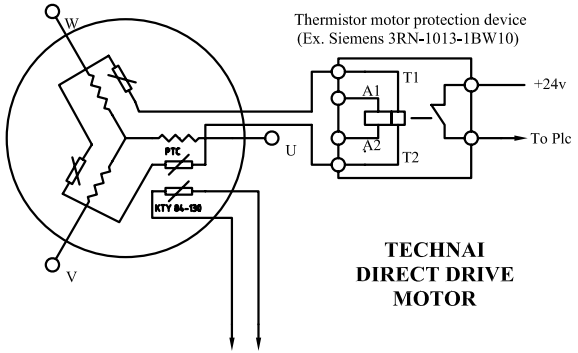
- BY CAD - DO NOT CHANGE MANUALLY -





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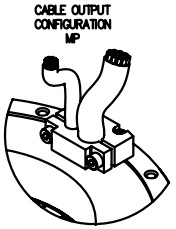

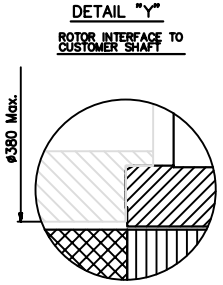

N. MODEL	WEIGHT Kg	DESCRIPTION	GENERAL ASSEMBLY
RAW MATERIAL		ASSEMBLY	
RAW DIMENSIONS		MACHINE	ROTOR-STATOR KIT MK-CIC 450
TREATMENT		COD.	MK-CIC 450-070 MP
DESIGNER: TECHNAI	DATE: 15.06.2009	SCALE	SHEET: 1 of 1

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