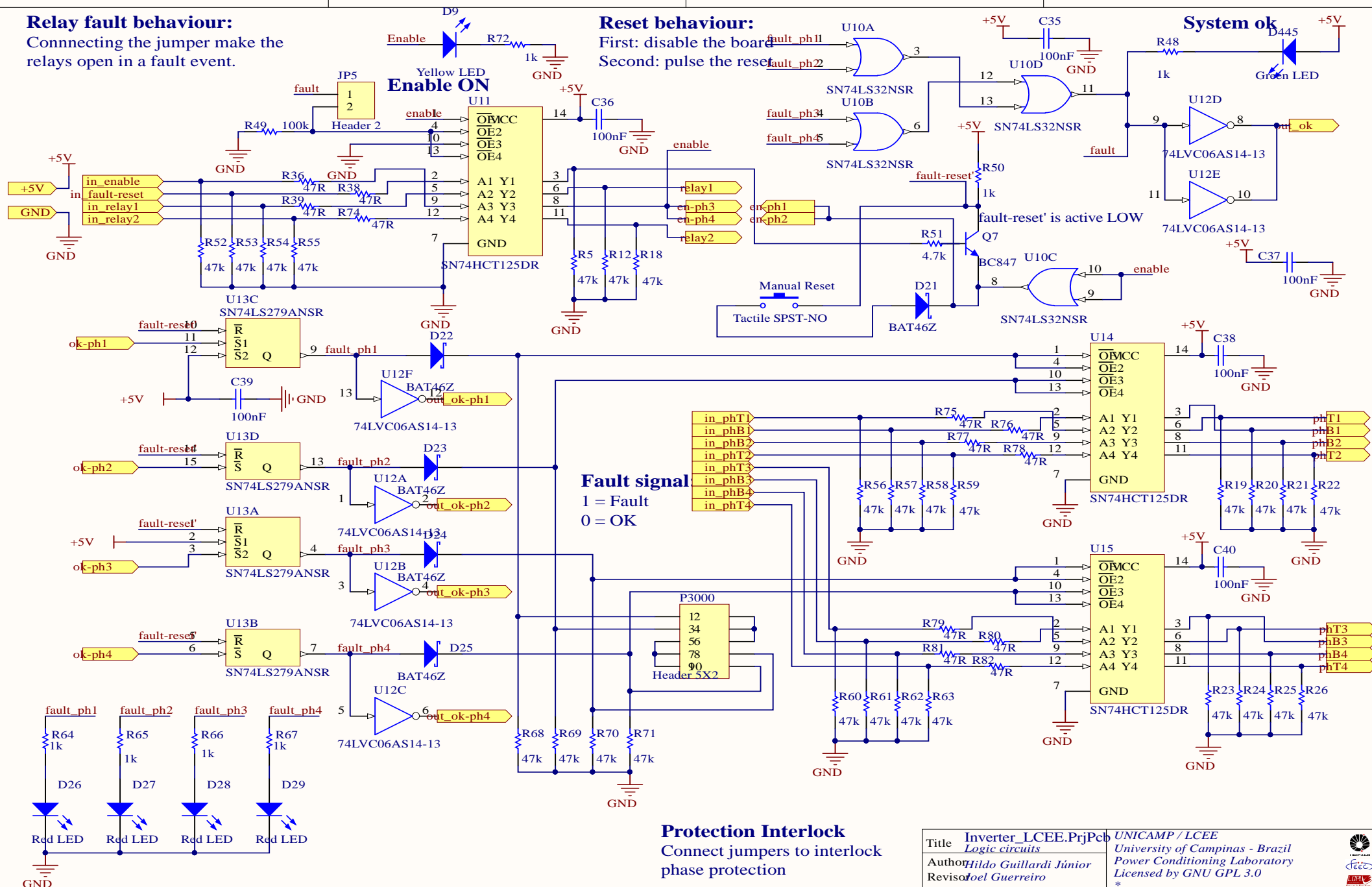


Title	Inverter_LCEE.PrjPcb	UNICAMP / LCEE
Author	Joel Guerreiro	University of Campinas - Brazil
Revisor	*	Power Conditioning Laboratory
Revisor	Hildo Scallart Jr	Licensed by GNU GPL 3.0
Revisor	Guilherme Junior	*
File	MainPowerSupply.SchDoc	Size: A4

Relay fault behaviour:

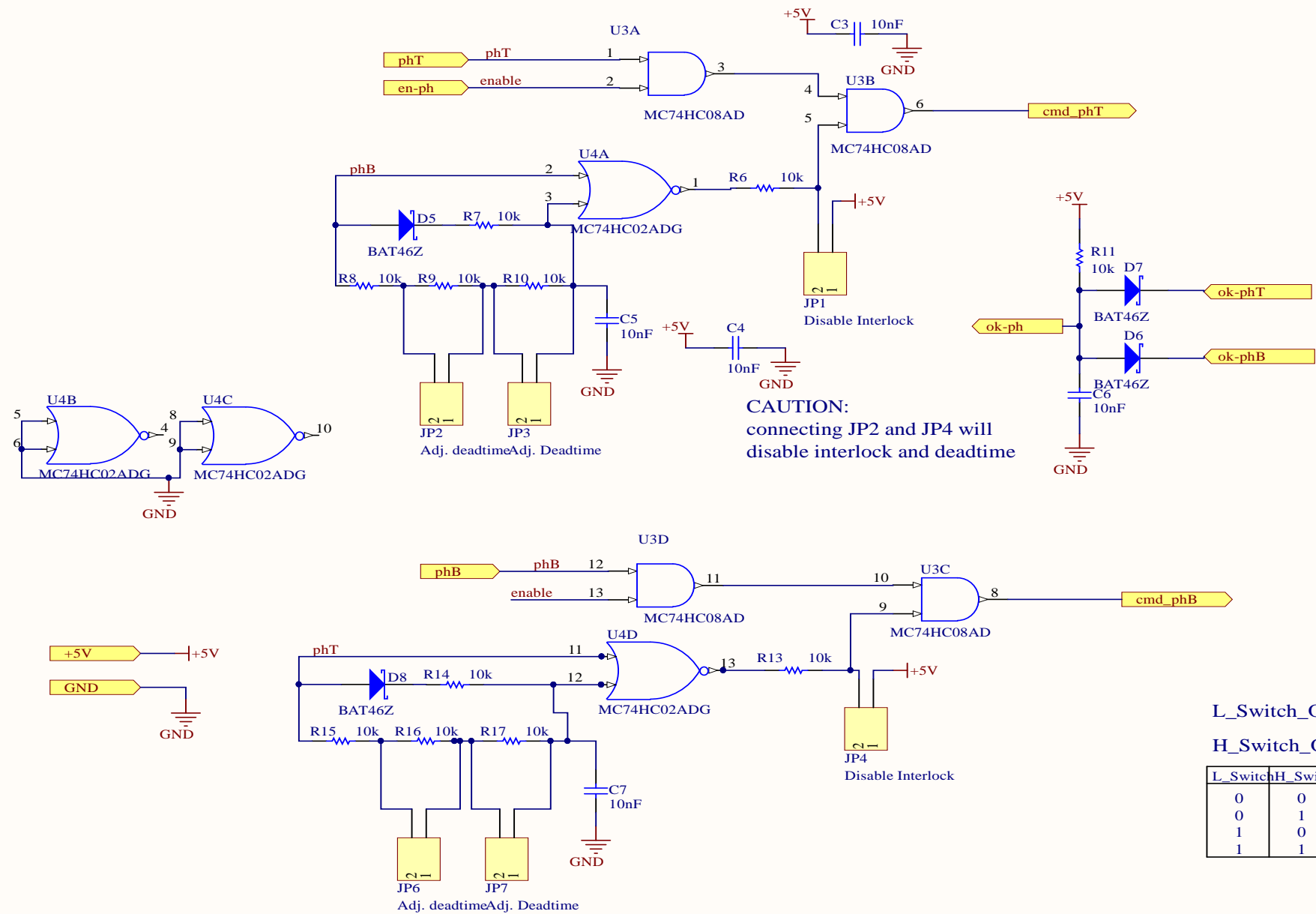
Connecting the jumper make the relays open in a fault event.



Protection Interlock

Connect jumpers to interlock phase protection

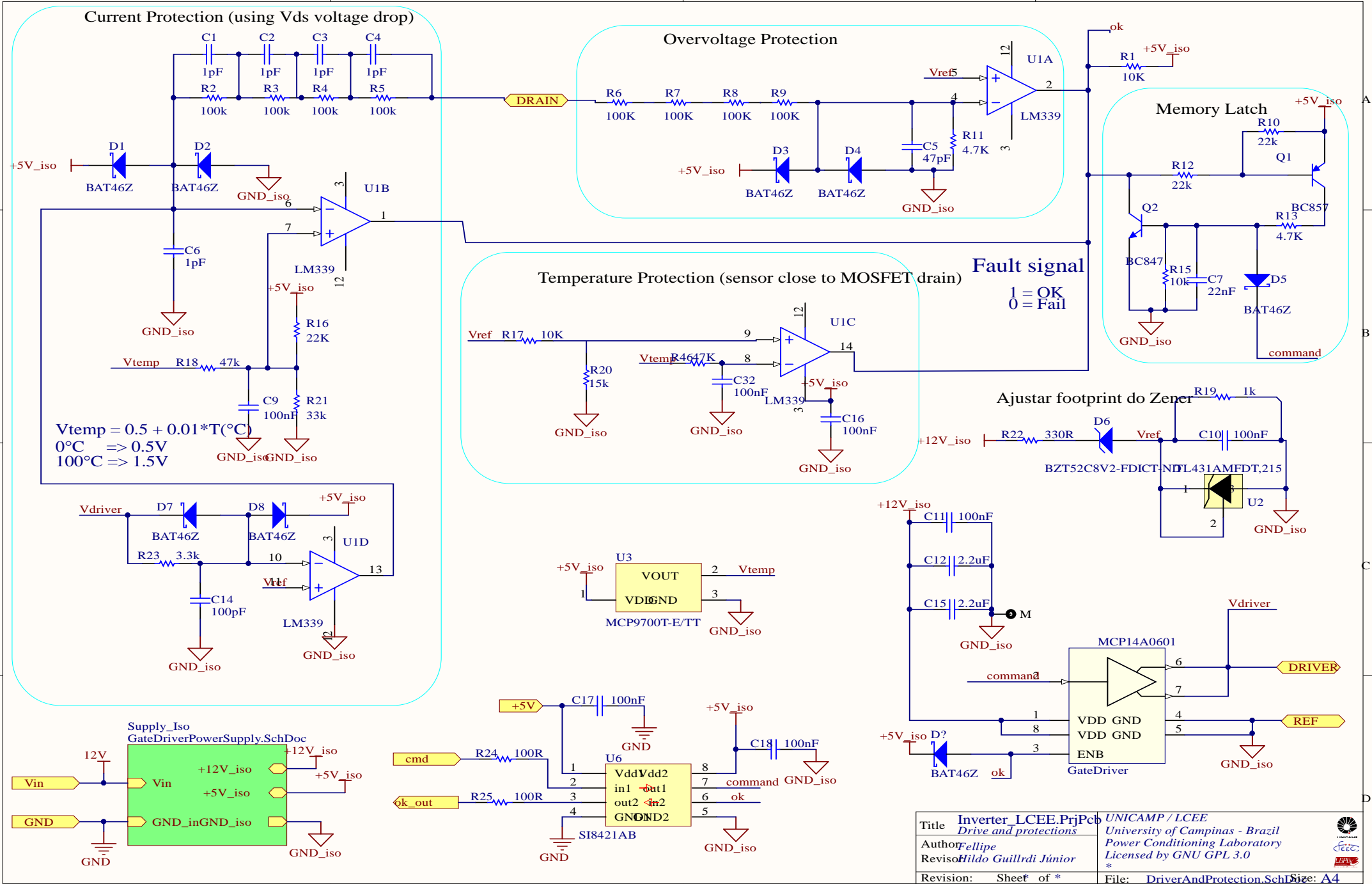
Title	Inverter_LCEE.PrjPcb	UNICAMP / LCEE
Author	Hildo Guillard Junior	University of Campinas - Brazil
Revisor	Joel Guerreiro	Power Conditioning Laboratory
Revisão	Joel Guerreiro	Licensed by GNU GPL 3.0
File	LogicCircuits.SchDoc	Size: A4

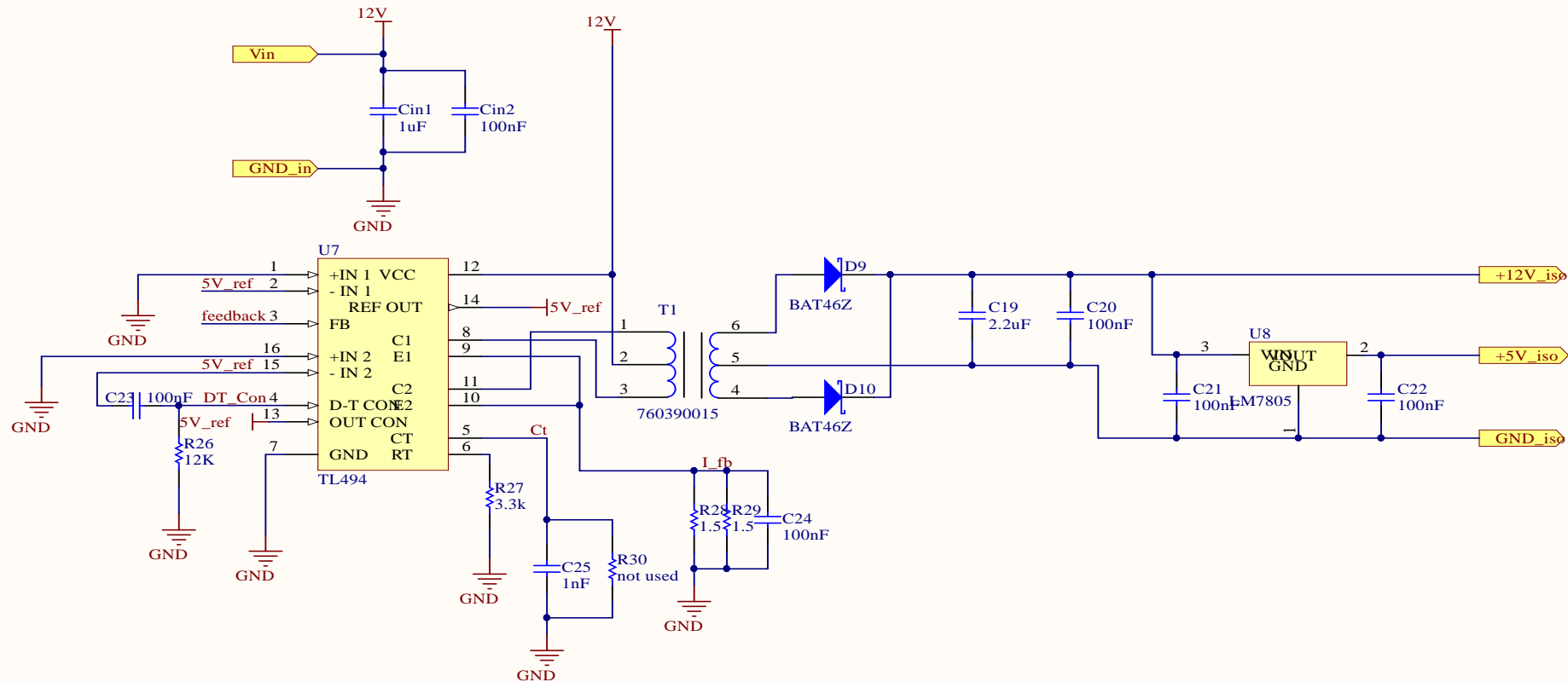


CAUTION:
connecting JP2 and JP4 will
disable interlock and deadtime

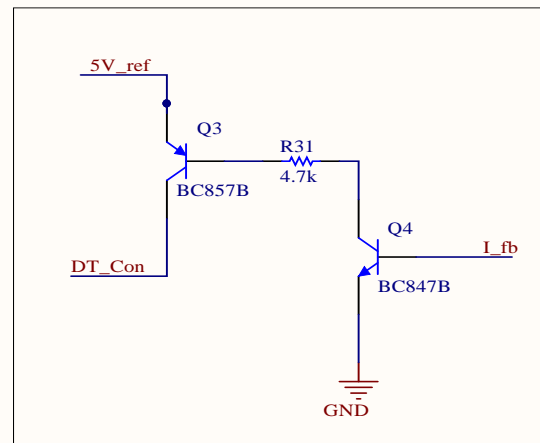
$$L_Switch_Out = L_Switch * H_Switch$$
$$H_Switch_Out = H_Switch * L_Switch$$

L_Switch	H_Switch	L_Switch_Out	H_Switch_Out
0	0	0	0
0	1	0	1
1	0	1	0
1	1	0	0





Current limit circuit

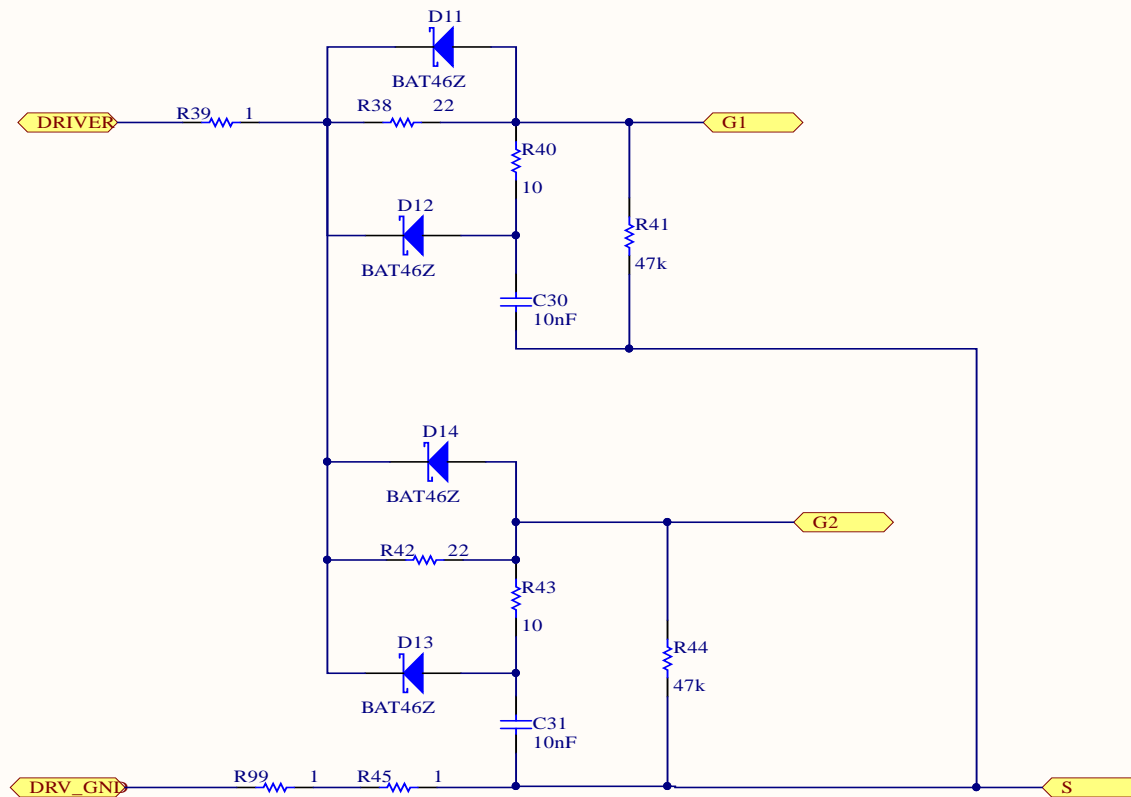


Switching frequency: 300kHz
 Max. duty cycle: 45%
 Input voltage: 8V
 Output voltage: 12.5V

SMPS Controller:
 TL494IDR
 Alt. part: TL594CDR2G

Push-pull transformer:
 Würth Electronics
 760390015

Title	Inverter_LCEE.PrjPcb	UNICAMP / LCEE
Author	Felipe / Arthur	University of Campinas - Brazil
Revised	Hildo / Joel	Power Conditioning Laboratory
Revision	1	Licensed by GNU GPL 3.0
Sheet	1 of 1	*
File:	GateDriverPowerSupply.SchDoc	Sheet 4



Title		Inverter_LCEE.PrjPcb		UNICAMP / LCEE	
Author		Hildo Guillard Junior		University of Campinas - Brazil	
Revisor		*		Power Conditioning Laboratory	
Revision		File		GateCircuit.SchDoc	
Sheet		of		Size: A4	

