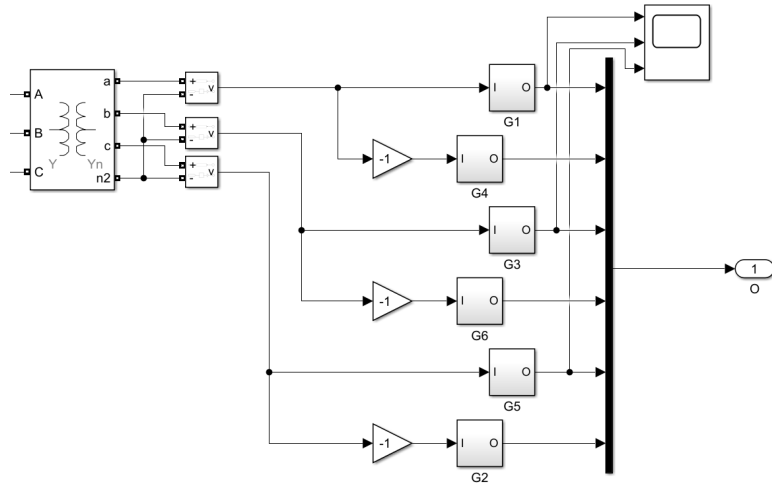
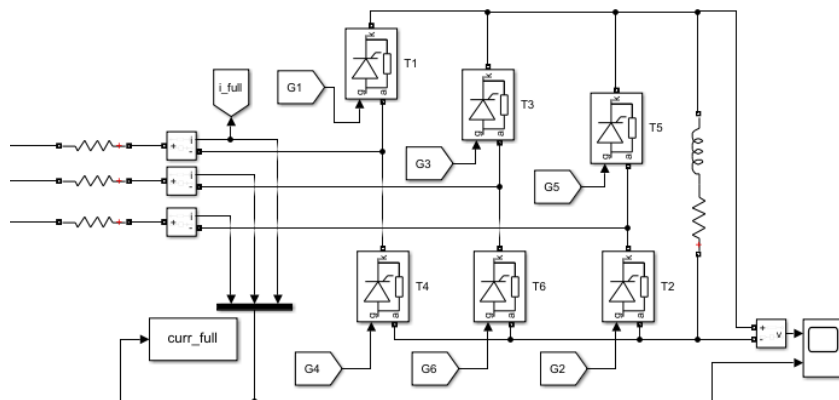


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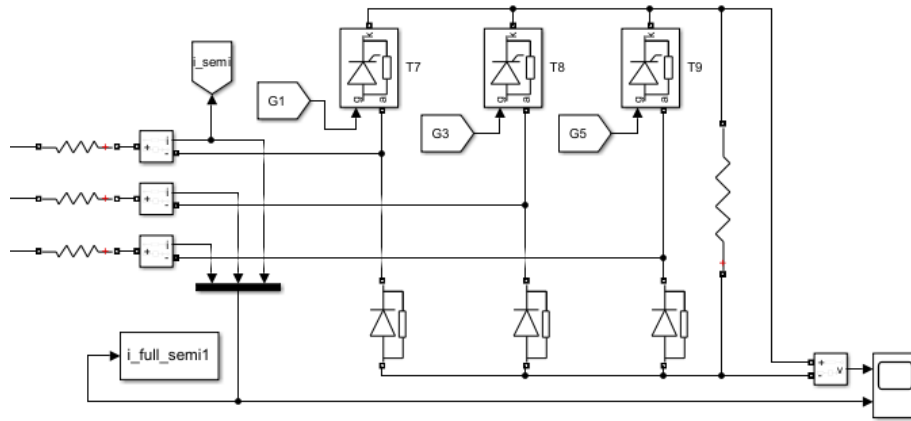
Part A: Triggering circuit



Part B: Full controlled Converter



Part C: Semi controlled Converter



Part D:

Parameter	Full-controlled Converter	Semi-controlled Converter
AC side currents (RMS)	4.08	4.08
Fundamental component of the AC side currents (RMS)	3.89	3.86
THD (%) of the AC side currents	31.13	34.10
Input power factor	0.922	0.913
Fundamental active power (W)	2025.60	2009.41
Fundamental reactive power (VAr)	542.7	538.4