Table I
DESCRIPTION OF THE TRAINING-SAMPLES OF ANN-BASED CONTROLLER FOR THREE-PHASE INVERTER WITH AN OUTPUT LC FILTER

Type # 1: Resistive Load with $R = 1, 3, 5, 7, 10, 15, 20, 25, 30, 35$

Sample No.	R [Ω]	T_s [µs]	L [mH]	C [µF]	V_{dc} [V]	v_c^* [V]	# of cycles/samples
S_1	1	**10**	3.5	50	500	200	**3/6001**
S_2	3	**10**	3.5	50	500	200	**3/6001**
S_3	5	**10**	3.5	50	500	200	**3/6001**
S_4	7	**10**	3.5	50	500	200	**3/6001**
S_5	10	**10**	3.5	50	500	200	**3/6001**
S_6	15	**10**	3.5	50	500	200	**3/6001**
S_7	20	**10**	3.5	50	500	200	**3/6001**
S_8	25	**10**	3.5	50	500	200	**3/6001**
S_9	30	**10**	3.5	50	500	200	**3/6001**
S_{10}	35	**10**	3.5	50	500	200	**3/6001**
S_{11}	1	**20**	3.5	50	500	200	**4/4001**
S_{12}	3	**20**	3.5	50	500	200	**4/4001**
S_{13}	5	**20**	3.5	50	500	200	**4/4001**
S_{14}	7	**20**	3.5	50	500	200	**4/4001**
S_{15}	10	**20**	3.5	50	500	200	**4/4001**
S_{16}	15	**20**	3.5	50	500	200	**4/4001**
S_{17}	20	**20**	3.5	50	500	200	**4/4001**
S_{18}	25	**20**	3.5	50	500	200	**4/4001**
S_{19}	30	**20**	3.5	50	500	200	**4/4001**
S_{20}	35	**20**	3.5	50	500	200	**4/4001**
S_{21}	1	**30**	3.5	50	500	200	**5/3334**
S_{22}	3	**30**	3.5	50	500	200	**5/3334**
S_{23}	5	**30**	3.5	50	500	200	**5/3334**
S_{24}	7	**30**	3.5	50	500	200	**5/3334**
S_{25}	10	**30**	3.5	50	500	200	**5/4001**
S_{26}	15	**30**	3.5	50	500	200	**5/3334**
S_{27}	20	**30**	3.5	50	500	200	**5/4001**
S_{28}	25	**30**	3.5	50	500	200	**5/3334**
S_{29}	30	**30**	3.5	50	500	200	**5/4001**
S_{30}	35	**30**	3.5	50	500	200	**5/3334**
S_{31}	1	**33**	**2.4**	**40**	**520**	**150**	**5/3031**
S_{32}	3	**33**	**2.4**	**40**	**520**	**150**	**5/3031**
S_{33}	5	**33**	**2.4**	**40**	**520**	**150**	**5/3031**
S_{34}	7	**33**	**2.4**	**40**	**520**	**150**	**5/3031**
S_{35}	10	**33**	**2.4**	**40**	**520**	**150**	**5/3031**
S_{36}	15	**33**	**2.4**	**40**	**520**	**150**	**5/3031**
S_{37}	20	**33**	**2.4**	**40**	**520**	**150**	**5/3031**
S_{38}	25	**33**	**2.4**	**40**	**520**	**150**	**5/3031**
S_{39}	30	**33**	**2.4**	**40**	**520**	**150**	**5/3031**
S_{40}	35	**33**	**2.4**	**40**	**520**	**150**	**5/3031**
S_{41}	1	**35**	3.5	50	500	200	**5/2858**
S_{42}	3	**35**	3.5	50	500	200	**5/2858**
S_{43}	5	**35**	3.5	50	500	200	**5/2858**
S_{44}	7	**35**	3.5	50	500	200	**5/2858**
S_{45}	10	**35**	3.5	50	500	200	**5/2858**
S_{46}	15	**35**	3.5	50	500	200	**5/2858**
S_{47}	20	**35**	3.5	50	500	200	**5/2858**
S_{48}	25	**35**	3.5	50	500	200	**5/2858**
S_{49}	30	**35**	3.5	50	500	200	**5/2858**
S_{50}	35	**35**	3.5	50	500	200	**5/2858**
S_{51}	1	**40**	3.5	50	500	200	**5/2501**
S_{52}	3	**40**	3.5	50	500	200	**5/2501**
S_{53}	5	**40**	3.5	50	500	200	**5/2501**
S_{54}	7	**40**	3.5	50	500	200	**5/2501**
S_{55}	10	**40**	3.5	50	500	200	**5/2501**
S_{56}	15	**40**	3.5	50	500	200	**5/2501**
S_{57}	20	**40**	3.5	50	500	200	**5/2501**
S_{58}	25	**40**	3.5	50	500	200	**5/2501**
S_{59}	30	**40**	3.5	50	500	200	**5/2501**
S_{60}	35	**40**	3.5	50	500	200	**5/2501**

Type # 2: Diode-Bridge Rectifier as Non-Linear Load with R_{NL} and C_{NL}

Sample No.	R_{NL} [Ω]	C_{NL} [µF]	T_s [µs]	L [mH]	C [µF]	V_{dc} [V]	v_c^* [V]	# of cycles/samples
S_{61}	60	3000	**33**	3.5	**40**	500	200	**5/3031**
S_{62}	30	3000	**33**	3.5	**40**	500	200	**5/3031**
S_{63}	10	3000	**33**	3.5	**40**	500	200	**5/3031**
S_{64}	200	3000	**33**	3.5	**40**	500	200	**5/3031**
S_{65}	100	3000	**33**	3.5	**40**	500	200	**5/3031**
S_{66}	900	3000	**33**	3.5	**40**	500	200	**5/3031**
S_{67}	1000	100	**33**	3.5	**40**	500	200	**5/3031**
S_{68}	60	100	**33**	3.5	**40**	500	200	**5/3031**
S_{69}	100	500	**33**	3.5	**40**	500	200	**5/3031**
S_{70}	100	1000	**33**	3.5	**40**	500	200	**5/3031**