

8.2.7 Checking the DC bus capacitors:

Perform this test only if the converter bridge and inverter bridge tests are good.

Test the capacitors using a multi-meter in ohmmeter mode between the terminals PC and PA. The resistance should begin at a low level and should increase progressively (as the capacitors charge). If this does not happen, the charging resistor or the capacitors are defective.

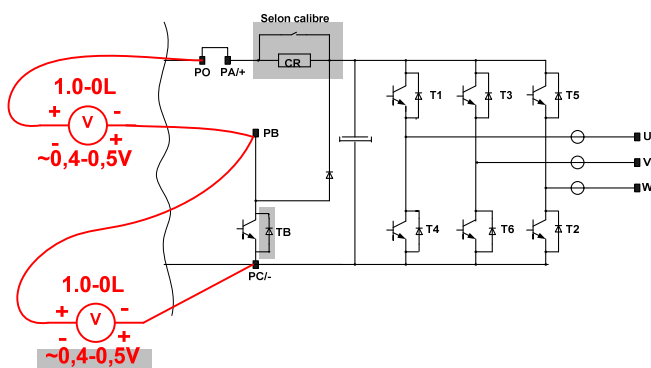


Table of capacitor values and discharge times.

ATV61/71 – Range 240V – IP00 / IP20

STANDARD PRODUCT ON A HEAT SINK					
Catalog Number	Number of capacitors and their value, wired in series (S) or in parallel (P) and the total value (in μF)	Discharge time from 412V (M3), 825V (N4) or 1127V (Y) to 50V.	Catalog Number	Number of capacitors and their value, wired in series (S) or in parallel (P) and the total value (in μF)	Discharge time from 412V (M3), 825V (N4) or 1127V (Y) to 50V.
ATV71H037M3	1*390 / 390	< 60 sec	ATV61H037M3	1*390 / 390	< 60 sec
ATV71H075M3	1*560 / 560	< 90 sec	ATV61H075M3	1*560 / 560	< 90 sec
ATV71HU15M3	2*390 P / 780	< 120 sec	ATV61HU15M3	2*390 P / 780	< 120 sec
ATV71HU22M3	2*780 / 1560	< 250 sec	ATV61HU22M3	2*780 / 1560	< 250 sec
ATV71HU30M3	2*1200 P / 2400	< 360 sec	ATV61HU30M3	2*1200 P / 2400	< 360 sec
ATV71HU40M3	2*1200 P / 2400	< 360 sec	ATV61HU40M3	2*1200 P / 2400	< 360 sec
ATV71HU55M3	6*550 P / 3300	< 560 sec	ATV61HU55M3	6*550 P / 3300	< 560 sec
ATV71HU75M3	4*950 P / 3800	< 650 sec	ATV61HU75M3	4*950 P / 3800	< 650 sec
ATV71HD11M3X	5*950 P / 4750	< 650 sec	ATV61HD11M3X	5*950 P / 4750	< 650 sec
ATV71HD15M3X	6*950 P / 5700	< 760 sec	ATV61HD15M3X	6*950 P / 5700	< 760 sec
ATV71HD18M3X	2*2700 P / 5400	< 294 sec	ATV61HD18M3X	2*2700 P / 5400	< 294 sec
ATV71HD22M3X	2*2700 P / 5400	< 294 sec	ATV61HD22M3X	2*2700 P / 5400	< 294 sec
ATV71HD30M3X	2*3900 P / 7800	< 212 sec	ATV61HD30M3X	2*3900 P / 7800	< 212 sec
ATV71HD37M3X	2*4800 P / 9600	< 261 sec	ATV61HD37M3X	2*4800 P / 9600	< 261 sec
ATV71HD45M3X	2*5700 P / 11400	< 310 sec	ATV61HD45M3X	2*5700 P / 11400	< 310 sec