

# CAPACITOR BANKS

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# About Us

## FOUNDED IN 1975, SECOM IS A LEADING COMPANY FOR THE DISTRIBUTION AND PRODUCTION OF COMPONENTS AND DEVICES FOR POWER ELECTRONICS

SECOM continuously carries out new research and technical proposal in conjunction with important clients, providing technical support to meet their specific needs.

Production excellence and efficient organization allow SECOM to commit itself to providing to the market with timely and professional service in numerous sectors of static energy conversion. Flexibility and short delivery time have become pillars to SECOM's company policy.

### WHO WE ARE



Over the years the company has become an important designer and manufacturer of power electronic devices for industrial automation manufacturing technologies

### WHAT WE DO



SECOM studies and manufactures customized solutions on behalf of its customers.

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# CAPACITOR BANKS

## OVERVIEW

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SECOM **capacitor racks** are units designed to increase the capacity of the DC-BUS **capacitor bank** in multidrive drive configurations, single drives or for special applications.

The racks can be wheeled or can have a structure for wall mounting, they can have an internal preload circuit and are equipped with protection fuses and discharge resistors. In order to have more capacity, you can connect the racks in parallel to obtain the required capacity.

The racks are composed of electrolytic capacitors connected in series and in parallel to reach specific voltage and capacity levels.

# CAPACITOR BANK

## GR6-C

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| Main general data   |                            |
|---------------------|----------------------------|
| Main supply Voltage | 540 Vdc, 930 Vdc           |
| Tolerance           | ± 20% power supply         |
| Capacity            | 7.830 ÷ 47.000 µF          |
| Rated Frequency     | 50 and 60 Hz; ± 2%         |
| Protection Degree   | IP20                       |
| Cooling System      | Natural air                |
| Installation Type   | Withdrawable               |
| Dimesions           | 243x1726x650mm (W x D x H) |
| Weight              | 85 kg                      |

| Ambient conditions           |                           |
|------------------------------|---------------------------|
| Altitude                     | 1000 m. a.s.l.            |
| Climate                      | Temperate                 |
| Min/Max operatin temperature | 0 ÷ 40°C                  |
| Storage Temperature          | -40 ÷ +55°C               |
| Relative humidity            | 10÷ 90 % (from 0 to 40°C) |

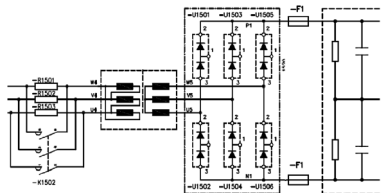
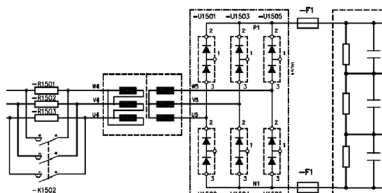
# WHEELED

## CAPACITOR RACKS

| Code                                | Capacity  | I <sub>Ndc</sub> IEEE444 | Dimension (l*h*w) | Circuit |
|-------------------------------------|-----------|--------------------------|-------------------|---------|
| <b>Rated voltage<br/>380 ÷ 440V</b> | <b>μF</b> | <b>V</b>                 | <b>mm</b>         |         |
| GR6.C.480.01                        | 23.500    | 400                      | 243*1726*650      |         |
| GR6.C.480.02                        | 35.250    | 400                      | 243*1726*650      |         |
| GR6.C.480.03                        | 47.000    | 400                      | 243*1726*650      |         |
|                                     |           |                          |                   |         |
|                                     |           |                          |                   |         |
| <b>Rated voltage<br/>480 ÷ 690V</b> | <b>μF</b> | <b>V</b>                 | <b>mm</b>         |         |
| GR6.C.690.01                        | 7.830     | 690                      | 243*1726*650      |         |
| GR6.C.690.011                       | 12.500    | 690                      | 243*1726*650      |         |
| GR6.C.690.02                        | 15.650    | 690                      | 243*1726*650      |         |
| GR6.C.690.021                       | 18.800    | 690                      | 243*1726*650      |         |
| GR6.C.690.03                        | 23.500    | 690                      | 243*1726*650      |         |
|                                     |           |                          |                   |         |
|                                     |           |                          |                   |         |

# PRECHARGE

## CAPACITOR RACKS

| Code                                | Capacity  | I <sub>Ndc</sub> IEEE444 | Dimension (l*h*w) | Circuit                                                                              |
|-------------------------------------|-----------|--------------------------|-------------------|--------------------------------------------------------------------------------------|
| <b>Rated voltage<br/>380 ÷ 440V</b> | <b>μF</b> | <b>V</b>                 | <b>mm</b>         |                                                                                      |
| GR6.C.480.01-P1                     | 23.500    | 400                      | 243*1726*650      |   |
| GR6.C.480.01-P3                     | 23.500    | 400                      | 243*1726*650      |                                                                                      |
| GR6.C.480.02-P1                     | 35.250    | 400                      | 243*1726*650      |                                                                                      |
| GR6.C.480.02-P3                     | 35.250    | 400                      | 243*1726*650      |                                                                                      |
| GR6.C.480.03-P1                     | 47.000    | 400                      | 243*1726*650      |                                                                                      |
| GR6.C.480.03-P3                     | 47.000    | 400                      | 243*1726*650      |                                                                                      |
| <b>Rated voltage<br/>480 ÷ 690V</b> | <b>μF</b> | <b>V</b>                 | <b>mm</b>         |                                                                                      |
| GR6.C.690.01-P1                     | 7.830     | 690                      | 243*1726*650      |  |
| GR6.C.690.01-P3                     | 7.830     | 690                      | 243*1726*650      |                                                                                      |
| GR6.C.690.011-P1                    | 12.500    | 690                      | 243*1726*650      |                                                                                      |
| GR6.C.690.011-P3                    | 12.500    | 690                      | 243*1726*650      |                                                                                      |
| GR6.C.690.02-P1                     | 15.650    | 690                      | 243*1726*650      |                                                                                      |
| GR6.C.690.02-P3                     | 15.650    | 690                      | 243*1726*650      |                                                                                      |
| GR6.C.690.021-P1                    | 18.800    | 690                      | 243*1726*650      |                                                                                      |
| GR6.C.690.021-P3                    | 18.800    | 690                      | 243*1726*650      |                                                                                      |
| GR6.C.690.03-P1                     | 23.500    | 690                      | 243*1726*650      |                                                                                      |
| GR6.C.690.03-P3                     | 23.500    | 690                      | 243*1726*650      |                                                                                      |

# MODULAR

## CAPACITOR RACKS

For the remaking of multidrive systems in which Siemens power supplies and Inverters are installed in the Masterdrive version and the customer needs to install S120 type Inverters, it is necessary to add a capacity defined by the difference in capacitors of the previous machines compared to the new ones.

| Inverter masterdrive code | DC bus capacity masterdrive | SINAMICS S120 Motor module | DC bus SINAMICS S120 | Capacity to add | Voltage | SECOM code          | Capacity | Frame type | Modules bench number |
|---------------------------|-----------------------------|----------------------------|----------------------|-----------------|---------|---------------------|----------|------------|----------------------|
| 6SE7021-8TB61             | 600 uF                      | 6SL3120-1TE21-8AC0         | 220 uF               | 380 uF          | 400 V   | GR6.C.04.1000.2S    | 500 uF   | Frame 2C   | 1                    |
| 6SE7023-4TC61             | 1100 uF                     | 6SL3120-1TE23-0AC0         | 705 uF               | 395 uF          | 400 V   | GR6.C.04.1000.2S    | 500 uF   | Frame 2C   | 1                    |
| 6SE7026-0TD61             | 3300 uF                     | 6SL3120-1TE26-0AA3         | 1410 uF              | 1890 uF         | 400 V   | GR6.C.04.4700.2S    | 2350 uF  | Frame 2C   | 1                    |
| 6SE7031-8TF60             | 10000 uF                    | 6SL3120-1TE32-0AA4         | 3995 uF              | 6005 uF         | 400 V   | GR6.C.04.4700.2S.3P | 7050 uF  | Frame 6C   | 1                    |
| 6SE7032-1TG60             | 10000 uF                    | 6SL3320-1TE32-1AA3         | 4200 uF              | 5800 uF         | 400 V   | GR6.C.04.4700.2S.3P | 7050 uF  | Frame 6C   | 1                    |
| 6SE7026-0WF60             | 3300 uF                     | 6SL3320-1TG28-5AA3         | 1200 uF              | 2100 uF         | 690 V   | GR6.C.06.4700.3S.2P | 3133 uF  | Frame 6C   | 1                    |
| 6SE7028-2WF60             | 3300 uF                     | 6SL3320-1TG31-0AA3         | 1200 uF              | 2100 uF         | 690 V   | GR6.C.06.4700.3S.2P | 3133 uF  | Frame 6C   | 1                    |
| 6SE7031-0WG60             | 5000 uF                     | 6SL3320-1TG31-2AA3         | 1600 uF              | 3400 uF         | 690 V   | GR6.C.06.4700.3S.3P | 4700 uF  | Frame 9C   | 1                    |
| 6SE7031-7WG60             | 6700 uF                     | 6SL3320-1TG32-2AA3         | 2800 uF              | 3900 uF         | 690 V   | GR6.C.06.4700.3S.3P | 4700 uF  | Frame 9C   | 1                    |
| 6SE7033-0WJ60             | 10000 uF                    | 6SL3320-1TG33-3AA3         | 4200 uF              | 5800 uF         | 690 V   | GR6.C.06.4700.3S.2P | 6267 uF  | 2xFrame 6C | 2                    |
| 6SE7034-5WJ60             | 16000 uF                    | 6SL3320-1TG34-7AA3         | 7400 uF              | 8600 uF         | 690 V   | GR6.C.06.4700.3S.3P | 9400 uF  | 2xFrame 9C | 2                    |
| 6SE7036-5WK60             | 24000 uF                    | 6SL3320-1TG37-4AA3         | 11100 uF             | 12900 uF        | 690 V   | GR6.C.06.4700.3S.3P | 14100 uF | 3xFrame 9C | 3                    |

| SECOM code          | Module capacity | Frame type | Dimensions (mm) |
|---------------------|-----------------|------------|-----------------|
| GR6.C.04.1000.2S    | 500uF           | Frame 2C   | L175-H300-D209  |
| GR6.C.04.4700.2S    | 2350uF          | Frame 2C   | L175-H300-D209  |
| GR6.C.04.4700.2S.3P | 7050uF          | Frame 6C   | L175-H600-D209  |
| GR6.C.06.4700.3S.2P | 3133uF          | Frame 6C   | L175-H600-D209  |
| GR6.C.06.4700.3S.3P | 4700uF          | Frame 9C   | L175-H900-D209  |





