



## Capacitor Extension Module

### NCBA0739G01001

### 1 Short Description

The CEM module is used to increase the buffer energy for the devices **C-TEC** 2403-05; 2403-1; 2420-8 and 2440P as well as for the devices **AC C-TEC** 2403-05; **AC C-TEC** 2403-1; **AC C-TEC** 2403-1-400; **AC C-TEC** 2420-8.

The **C-TEC** monitors and controls the charging and discharging of the extension modules.

### 2 Technical Data

|   |   |
|---|---|
| Nominal input voltage                         | 24 V DC                                 |
| Input voltage range                           | 0... 26,4 V DC<br>0... 24 V DC +10%     |
| Buffer capacity                               | 1 kJ                                    |
| Nominal input current                         | 3 A DC                                  |
| Nominal output current                        | 3 A DC                                  |
| Fusing input                                  | 3 A T (PTC internal)                    |
| fusing DC output circuit                      | 3 A T (PTC internal)                    |
| Type of connection input ,C+/C-'              | Spring terminal max. 1,0mm <sup>2</sup> |
| Type of connection output ,C+/C-'             | Spring terminal max. 1,0mm <sup>2</sup> |
| Protective system                             | IP 20 and EN 60529                      |
| Storage temperature                           | -40...60°C                              |
| Environmental temperature                     | -40...60°C                              |
| Max. mounting height (without load reduction) | 2000 m above sea level                  |
| Dimensions (HxBxT)                            | 92,5 mm, 60 mm, 116 mm                  |
| weight  | 0,52 kg                                 |

### 3 Norms and Regulations

|                      |   |
|----------------------|---|
| Terminal voltage     | SELV / PELV according to<br>EN 60950<br>EN 50178  |
| Emitted interference | EN 6100-3-2<br>EN 6100-3-3 class A<br>EN 55011 class B<br>EN 62040 -2   |
| Noise immunity       | EN 61000-6-2<br>EN 62040-2<br><br>EN 61000-4-2 (Static discharge ESD)<br>8kV/6kV<br>EN 61000-4-3 (Electromagnetic fields)<br>10V/m 27 – 1000MHz<br>3V/m 1400 - 2700MHz<br>EN 61000-4-4 (fast transients / Burst)<br>DC IN, DC OUT 2kV<br>others 1kV<br>EN 61000-4-5 ( Surge)<br>DC IN 0.5kV<br>EN 61000-4-6 (conducted immunity)<br>10V 150kHz – 80MHz<br>EN 61000-4-11 (voltage interruptions)<br>back-up with ultra capacitor |
| Total unit           | EN 50178<br>EN 60950<br>UL 508  |