



CEM 24-1,5

NBPA0739G01001

1 Short Description

The CEM modul 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 moduls.

2 Norms and Regulations

Terminal voltage	SELV / PELV according to EN 50178
Emitted interference	EN 61000-3-2 and EN 61000-3-3 class A EN 55011 class B EN 62040-2
Noise immunity	EN 62040-2 EN 61000-6-2 EN61000-4-2 (static discharge ESD) 8kV/6kV EN61000-4-3 (electromagnetic fields) 10V/m 27 – 1000MHz 3V/m 400 - 2700MHz EN61000-4-4 (fast transients / Burst)DC IN, DC OUT 2kV others 1kV EN61000-4-5 (Surge) DC IN 0.5kV EN61000-4-6 (conducted immunity) 10V 150kHz – 80MHz EN61000-4-11 (voltage interruptions) back-up with ultracapacitor
Total unit	EN 50178 EN 61010-1 / EN 61010-2-201 / EN 62368-1 UL508

3 Technical Data

Nominal input voltag	24 V DC +10%
Input voltage range	0...26,4 V DC
Buffer capacity CEM 24-1,5	1,5 kJ
Nominal input current	3 A
Nominal output current	3 A
Fusing input	3 A T (PTC internal)
Fusing DC output circuit	3 A T (PTC internal)
Protective system	IP 20 und EN 60529
Storage temperature	-40...60°C
Environmental temperature	-40...60°C
Max. mounting height (without load reduction)	2000 m above sea level
Dimensions (HxWxD)	92,5 mm, 60 mm, 116 mm
weight CEM 24-1,5	0,52 kg



CEM 24-3

NBPA0739G01002

1 Short Description

The CEM modul 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 moduls.

2 Norms and Regulations

Terminal voltage	SELV / PELV according to EN 50178
Emitted interference	EN 61000-3-2 and EN 61000-3-3 class A EN 55011 class B EN 62040-2
Noise immunity	EN 62040-2 EN 61000-6-2 EN61000-4-2 (static discharge ESD) 8kV/6kV EN61000-4-3 (electromagnetic fields) 10V/m 27 – 1000MHz 3V/m 400 - 2700MHz EN61000-4-4 (fast transients / Burst)DC IN, DC OUT 2kV others 1kV EN61000-4-5 (Surge) DC IN 0.5kV EN61000-4-6 (conducted immunity) 10V 150kHz – 80MHz EN61000-4-11 (voltage interruptions) back-up with ultracapacitor
Total unit	EN 50178 EN 61010-1 / EN 61010-2-201 / EN 62368-1 UL508

3 Technical Data

Nominal input voltag	24 V DC +10%
Input voltage range	0...26,4 V DC
Buffer capacity CEM 24-3	3 kJ
Nominal input current	3 A
Nominal output current	3 A
Fusing input	3 A T (PTC internal)
Fusing DC output circuit	3 A T (PTC internal)
Protective system	IP 20 und EN 60529
Storage temperature	-40...60°C
Environmental temperature	-40...60°C
Max. mounting height (without load reduction)	2000 m above sea level
Dimensions (HxWxD)	92,5 mm, 60 mm, 116 mm
weight CEM 24-3	0,65 kg



Capacitor Extension Module NCBA0748G10003

1 Short Description

The CEM modul 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 moduls

2 Technical Data

Nominal input voltage	24 V DC
Input voltage range	0... 26,4 V DC
Buffer capacity CEM 24-8	8 kJ
Nominal input current	20 A DC
Nominal output current	20 A DC
Fusing input	25 A T (PTC internal)
fusing DC output circuit	25 A T (PTC internal)
Type of connection input ,C+/C-'	Spring terminal max. 4 mm ²
Type of connection output ,C+/C-'	Spring terminal max. 4 mm ²
Protective system	IP 20 and EN 60529
Storage temperature	-40...60°C
Environmental temperature	-40...60°C
Max. mounting heigth (without load reduction)	2000 m above sea level
Dimensions (HxBxT)	193 mm, 82 mm, 193 mm
weight CEM 24-8	1,85 kg

Technical Datasheet

CEM 24-8



3 Norms and Regulations

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



Capacitor Extension Module NCBA0748G10001

1 Short Description

The CEM modul 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 moduls.

2 Technical Data

Nominal input voltage	24 V DC
Input voltage range	0... 26,4 V DC
Buffer capacity CEM 24-16	16 kJ
Nominal input current	20 A DC
Nominal output current	20 A DC
Fusing input	25 A T (PTC internal)
fusing DC output circuit	25 A T (PTC internal)
Type of connection input ,C+/C-'	Spring terminal max. 4 mm ²
Type of connection output ,C+/C-'	Spring terminal max. 4 mm ²
Protective system	IP 20 and EN 60529
Storage temperature	-40...60°C
Environmental temperature	-40...60°C
Max. mounting heigth (without load reduction)	2000 m above sea level
Dimensions (HxBxT)	193 mm, 82 mm, 193 mm
weight CEM 24-16	2,54 kg

Technical Datasheet

CEM 24-8



3 Norms and Regulations

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



CEM 12-1,5

NBPA0739G10003

1 Short Description

The CEM modul is used to increase the buffer energy for the devices **C-TEC** 1203-05 in AC and DC version.

The **C-TEC** 1203 monitors and controls the charging and discharging of the extension moduls.

2 Norms and Regulations

Terminal voltage	SELV / PELV according to EN 50178
Emitted interference	EN 61000-3-2 and EN 61000-3-3 class A EN 55011 class B EN 62040-2
Noise immunity	EN 62040-2 EN 61000-6-2 EN61000-4-2 (static discharge ESD) 8kV/6kV EN61000-4-3 (electromagnetic fields) 10V/m 27 – 1000MHz 3V/m 400 - 2700MHz EN61000-4-4 (fast transients / Burst)DC IN, DC OUT 2kV others 1kV EN61000-4-5 (Surge) DC IN 0.5kV EN61000-4-6 (conducted immunity) 10V 150kHz – 80MHz EN61000-4-11 (voltage interruptions) back-up with ultracapacitor
Total unit	EN 50178 EN 61010-1 / EN 61010-2-201 / EN 62368-1

3 Technical Data

Nominal input voltag	12 V DC +10%
Input voltage range	0...26,4 V DC
Buffer capacity CEM 12-1,5	1,5 kJ
Nominal input current	3 A
Nominal output current	3 A
Fusing input	3 A T (PTC internal)
Fusing DC output circuit	3 A T (PTC internal)
Protective system	IP 20 und EN 60529
Storage temperature	-40...60°C
Environmental temperature	-40...60°C
Max. mounting height (without load reduction)	2000 m above sea level
Dimensions (HxWxD)	92,5 mm, 60 mm, 116 mm
weight CEM 12-1,5	0,52 kg



CEM 12-3

NBPA0739G10004

1 Short Description

The CEM modul is used to increase the buffer energy for the devices **C-TEC** 1203-05 in AC and DC version.

The **C-TEC** 1203 monitors and controls the charging and discharging of the extension moduls.

2 Norms and Regulations

Terminal voltage	SELV / PELV according to EN 50178
Emitted interference	EN 61000-3-2 and EN 61000-3-3 class A EN 55011 class B EN 62040-2
Noise immunity	EN 62040-2 EN 61000-6-2 EN61000-4-2 (static discharge ESD) 8kV/6kV EN61000-4-3 (electromagnetic fields) 10V/m 27 – 1000MHz 3V/m 400 - 2700MHz EN61000-4-4 (fast transients / Burst)DC IN, DC OUT 2kV others 1kV EN61000-4-5 (Surge) DC IN 0.5kV EN61000-4-6 (conducted immunity) 10V 150kHz – 80MHz EN61000-4-11 (voltage interruptions) back-up with ultracapacitor
Total unit	EN 50178 EN 61010-1 / EN 61010-2-201 / EN 62368-1

3 Technical Data

Nominal input voltag	12 V DC +10%
Input voltage range	0...26,4 V DC
Buffer capacity CEM 12-3	3 kJ
Nominal input current	3 A
Nominal output current	3 A
Fusing input	3 A T (PTC internal)
Fusing DC output circuit	3 A T (PTC internal)
Protective system	IP 20 und EN 60529
Storage temperature	-40...60°C
Environmental temperature	-40...60°C
Max. mounting height (without load reduction)	2000 m above sea level
Dimensions (HxWxD)	92,5 mm, 60 mm, 116 mm
weight CEM 12-3	0,65 kg