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STÖRMELDESISTEME

# C3 Main power unit

## Type designation:

### **C3 Main power unit**

DIN rail power supply unit,  
primary-switched mode,  
slim design,  
Output: 24V DC / 1,5A  
Input: 100V AC - 240V AC



## Function

- Supply of C3 modules via the DIN rail connector (internal bus) with a regulated 24V DC
- The electronic short-circuit and idling-proof device is connected to single-phase AC networks with nominal voltages of 100V AC to 240V AC or to two of the phase conductors of three-phase networks with a linked voltage of this value. In the event of a malfunction, the output voltage is limited to 30V DC
- Operating voltage display LED green

## Input data

- Nominal input voltage 100V AC to 240V AC, AC input voltage range 85V AC to 264V AC, approx. 0,75A
- AC frequency range 45Hz to 65Hz
- Power failure bypass > 35ms (120V AC), > 150ms (230V AC)

## Output data

- Nominal output voltage 24 V DC  $\pm 1\%$ , 1,5 A (-25 °C ... 60 °C)

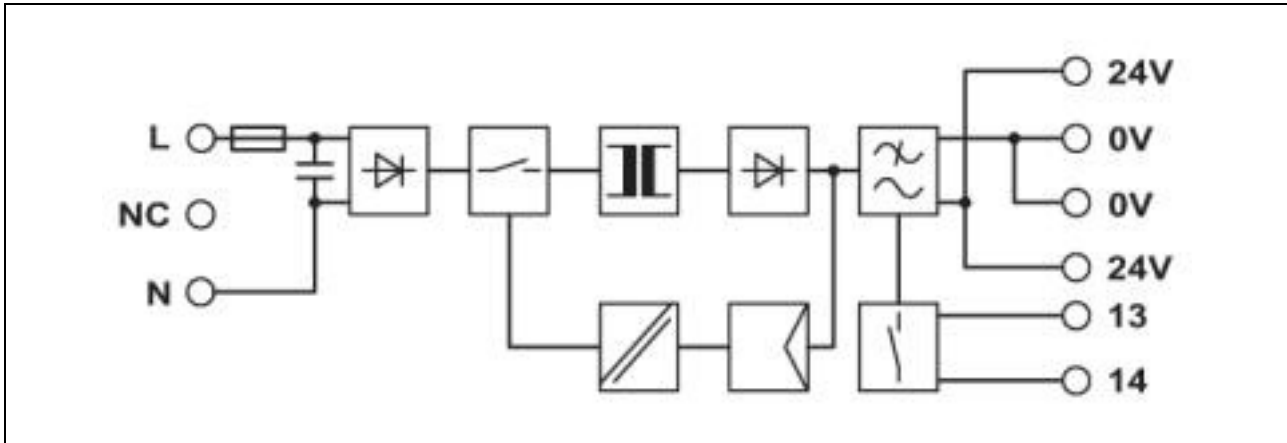
## Mechanical characteristics

- Compact Snap-on plastic housing 35 x 99 x 95mm (WxHxD) with DIN-rail-bus
- Screw-type terminals, plug connection for connection max. 2,5mm<sup>2</sup>

## Extensions

- Connection in parallel for redundancy and increased capacity, maximum of 2 devices for redundancy on DIN rail connector

## Block diagram C3 Main power unit



### Technical data:

1. Type of construction:  
snap-on plastic housing (polyamide)  
with DIN-rail-bus 35 x 99 x 95mm (WxHxD)
2. Degree of protection:  
IP20
3. Weight:  
approx. 250g
4. Climatic conditions:  
ambient temperature (operation):  
-25°C to 70°C (> 60°C derating)  
ambient temperature (storage/transport):  
-40°C to 85°C  
max. permissible relative humidity (operation):  
≥ 95% (at 25°C, no condensation)
5. Connection:  
screw-type terminals/ plug connection  
max. 2,5mm<sup>2</sup>
6. Supply voltage:  
nominal input voltage: 100V AC-240V AC  
AC input voltage range: 85V AC-264V AC  
AC frequency range AC 45Hz-65Hz
7. Current consumption:  
approx. 0,75A (120V AC), 0,45A (230V AC)
8. Inrush surge current:  
< 15A (0,6A2s)
9. Power failure bypass:  
> 35ms (120V AC), > 150ms (230V AC)
10. Input fuse:  
3,15A (slow-blow, internal)
11. Nominal output voltage:  
24V DC ±1%
12. Output current:  
1,5A (-25°C-60°C), 2A  
(with POWER BOOST, -25°C-40°C permanent)
13. Connection in parallel:  
for redundancy and increased capacity, maximum of 2 devices for redundancy on DIN rail connector
14. Connection in series:  
no
15. Max. capacitive load:  
unlimited
16. Power loss:  
dissipation idling max. 1,5W,  
nominal load max. 6,5W
17. Leakage distances and clearances:  
in accordance with UNITRO-Standard
18. EMC, immunity of interference:  
UNITRO-Standard,  
in accordance with EN 61000