

## Single-phase, non-stabilised DC power supply DCT



### General Data

|                                  |
|----------------------------------|
| Input rated voltage 230 Vac      |
| Output rated voltage 12 - 24 Vdc |
| Output rated current 0.5 - 4 A   |
| Residual ripple factor ≤5 %      |
| Ambient temperature +25 °C       |
| Protection index IP 00           |

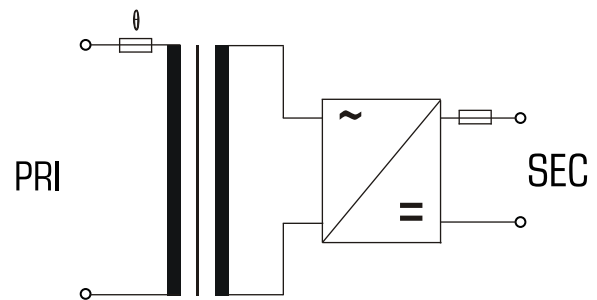
### Advantages

|  |
|--|
| Thermal fuse in the input and a fuse protection for the output   |
| Separate windings  |
| Capacitor accessories  |
| Permanent corrosion protection, high insulation value and maximum electrical reliability thanks to XtraDenseFill resin encapsulation |
| Stable plastic housing for rail mounting, e.g. in consumer units or meter mounting boards  |

### Applications

Robust DC power supply is concentrated on the core task of voltage and power supply. Flat step profile optimized for installation in control panels in building automation.

### Sample application



### Standards

Non-stabilised dc power supply / Safety isolating transformer to VDE 0570 part 2-6, EN 61558-2-6, IEC 61558-2-6

### Approvals



## Single-phase, non-stabilised DC power supply **DCT**



| Typ                          | DCT 12-0,5                     | DCT 12-1                       | DCT 12-2                       | DCT 12-4                       |
|------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <b>Electrical data</b>       |                                |                                |                                |                                |
| <b>Input</b>                 |                                |                                |                                |                                |
| Input rated voltage          | 230 Vac                        | 230 Vac                        | 230 Vac                        | 230 Vac                        |
| Frequency range              | 50 - 60 Hz                     | 50 - 60 Hz                     | 50 - 60 Hz                     | 50 - 60 Hz                     |
| <b>Output</b>                |                                |                                |                                |                                |
| Output rated voltage         | 12 Vdc                         | 12 Vdc                         | 12 Vdc                         | 12 Vdc                         |
| Power                        | 6.00 W                         | 12.00 W                        | 24.00 W                        | 48.00 W                        |
| Output rated current         | 0.50 A                         | 1.00 A                         | 2.00 A                         | 4.00 A                         |
| Ripple factor                | ≤5 %                           | ≤5 %                           | ≤5 %                           | ≤5 %                           |
| <b>Environment</b>           |                                |                                |                                |                                |
| Cooling method               | self-cooling                   | self-cooling                   | self-cooling                   | self-cooling                   |
| Ambient temperature max.     | +25 °C                         | +25 °C                         | +25 °C                         | +25 °C                         |
| <b>Safety and protection</b> |                                |                                |                                |                                |
| Type                         | Resin encapsulated transformer | Resin encapsulated transformer | Resin encapsulated transformer | Resin encapsulated transformer |
| Class of Insulation System   | B                              | B                              | B                              | B                              |
| Protection index             | IP 00                          | IP 00                          | IP 00                          | IP 00                          |
| Safety class (prepared)      | II                             | II                             | II                             | II                             |
| Short circuit strength       | short-circuit proof            | short-circuit proof            | short-circuit proof            | short-circuit proof            |
| <b>Order numbers</b>         |                                |                                |                                |                                |
| <b>Order Number</b>          | <b>DCT 12-0,5</b>              | <b>DCT 12-1</b>                | <b>DCT 12-2</b>                | <b>DCT 12-4</b>                |

1.1

1.2

1.3

2.1

2.2

3.1

3.2

3.3

4.0

5.1

5.2



## Single-phase, non-stabilised DC power supply **DCT**



|                        |                            | DCT 24-0,5                     | DCT 24-1,5                     | DCT 24-2,5                     |
|------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|
| Electrical data        | Typ                        |                                |                                |                                |
|                        | Input                      |                                |                                |                                |
|                        | Input rated voltage        | 230 Vac                        | 230 Vac                        | 230 Vac                        |
|                        | Frequency range            | 50 - 60 Hz                     | 50 - 60 Hz                     | 50 - 60 Hz                     |
|                        | Output                     |                                |                                |                                |
|                        | Output rated voltage       | 24 Vdc                         | 24 Vdc                         | 24 Vdc                         |
|                        | Power                      | 12.00 W                        | 36.00 W                        | 60.00 W                        |
|                        | Output rated current       | 0.50 A                         | 1.50 A                         | 2.50 A                         |
|                        | Ripple factor              | ≤5 %                           | ≤5 %                           | ≤5 %                           |
|                        | Environment                |                                |                                |                                |
|                        | Cooling method             | self-cooling                   | self-cooling                   | self-cooling                   |
|                        | Ambient temperature max.   | +25 °C                         | +25 °C                         | +25 °C                         |
|                        | Safety and protection      |                                |                                |                                |
|                        | Type                       | Resin encapsulated transformer | Resin encapsulated transformer | Resin encapsulated transformer |
|                        | Class of Insulation System | B                              | B                              | B                              |
|                        | Protection index           | IP 00                          | IP 00                          | IP 00                          |
|                        | Safety class (prepared)    | II                             | II                             | II                             |
| Short circuit strength | short-circuit proof        | short-circuit proof            | short-circuit proof            |                                |
| Order numbers          |                            |                                |                                |                                |
| <b>Order Number</b>    | <b>DCT 24-0,5</b>          | <b>DCT 24-1,5</b>              | <b>DCT 24-2,5</b>              |                                |

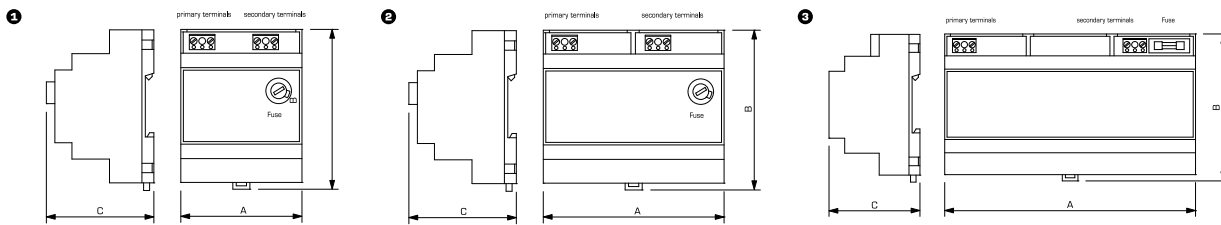


Single-phase, non-stabilised  
DC power supply  
**DCT**



| Mechanical data | Typ        | Terminals            | Fixing method         | Weight  | Dimension picture (in mm) |     |    |    |
|-----------------|------------|----------------------|-----------------------|---------|---------------------------|-----|----|----|
|                 |            |                      |                       |         | A                         | B   | C  |    |
|                 | DCT 12-0,5 | Screw-type terminals | DIN Rail system TH 35 | 0.45 kg | 1                         | 71  | 94 | 63 |
|                 | DCT 12-1   | Screw-type terminals | DIN Rail system TH 35 | 0.51 kg | 2                         | 71  | 94 | 63 |
|                 | DCT 12-2   | Screw-type terminals | DIN Rail system TH 35 | 1.08 kg | 2                         | 106 | 94 | 63 |
|                 | DCT 12-4   | Screw-type terminals | DIN Rail system TH 35 | 1.90 kg | 2                         | 159 | 94 | 63 |
|                 | DCT 24-0,5 | Screw-type terminals | DIN Rail system TH 35 | 0.52 kg | 3                         | 71  | 94 | 63 |
|                 | DCT 24-1,5 | Screw-type terminals | DIN Rail system TH 35 | 1.09 kg | 3                         | 106 | 94 | 63 |
|                 | DCT 24-2,5 | Screw-type terminals | DIN Rail system TH 35 | 1.93 kg | 3                         | 159 | 94 | 63 |

Dimension pictures



1.1

1.2

1.3

2.1

2.2

3.1

3.2

3.3

4.0

5.1

5.2