



CONVERTERS / RECTIFIERS

- Compact design
- Galvanic separation
- Switch mode models

SMALL VOLTAGE CONVERTERS

Voltages in control systems often have to be converted. The DC/DC converters in the MDD series do this perfectly! It doesn't matter if you need 5, 10, 12 or 24 volts – Murrelektronik has the right product.

If there is only AC voltage available, the NG rectifier series can convert into DC voltage.

All models can be conveniently mounted in the control cabinet on DIN rail.

AC/DC and DC/DC Converters



MDD, GLS, GSS, NG, NT

- Output current range: 0.5...4A

Page 1.6.1

Rectifiers



NG

- Output current range: 2.6...10A

Page 1.6.3

CONVERTERS / RECTIFIERS

Switched mode

- with galvanic isolation

MDD

OUTPUT: 24 V DC
Current: 0.3 A



MDD

OUTPUT: 12 V DC
Current: 0.7 A

MDD

OUTPUT: 5 V DC
Current: 1.5 A



MDD

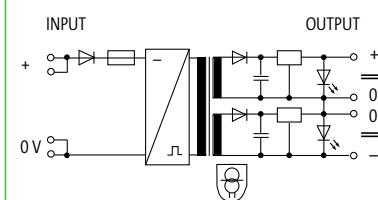
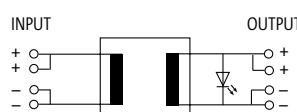
OUTPUT: ±10 V DC
Current: 2 x 0.25 A



MDD

OUTPUT: ±15 V DC
Current: 2 x 0.25 A

Circuit diagram



Order Data

24 V DC/0.3 A

Art-No.

85655

Art-No.

85656

Art-No.

85657

Art-No.

85658

Art-No.

85659

12 V DC/0.7 A

5 V DC/1.5 A

±10 V DC/2 x 250 mA

±15 V DC/2 x 250 mA

Input

Input voltage

24 V DC

Input current

0.6 A

0.85 A

Input fuse (external)

2 A (T)

—

Input fuse (internal)

1.5 A (T)

Output

Output fuse

short-circuit and overload protected, restart after overload by removing power supply

Output voltage

24 V DC (SELV), ±2 %

12 V DC (SELV), ±2 %

5 V DC (SELV), ±2 %

±10 V DC (SELV), ±5 %

±15 V DC (SELV), ±5 %

Output current

max. 0.3 A

max. 0.7 A

max. 1.5 A

max. 2 x 250 mA

Ripple

max. 0.2 % eff

General data

Standards

(EN 61204-3)

Test isolation voltage

4 kV (input/output)

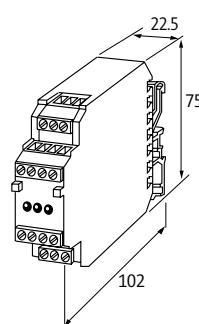
Temperature range

0...+50 °C, no condensation

Mounting method

DIN-rail mountable TH35 or G32 (EN 60715)

Dimension drawing



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Notes

CONVERTERS / RECTIFIERS

DC/DC converters

- AC/DC converters

GLS

OUTPUT regulated: 5 V DC
Current: 1.2 A



GSS

OUTPUT switched mode: 5 V DC
Current: 4 A

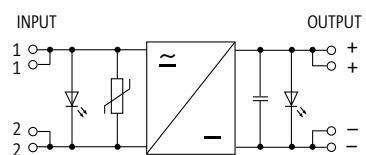
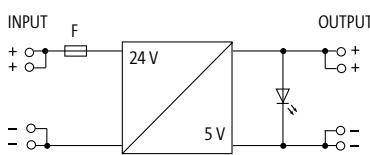


NT

OUTPUT: 5...35 V DC
Current: 3.5 A



Circuit diagram



Order Data

5 V DC/1.2 A

Art-No.

85600

Art-No.

85650

Art-No.

85660

Input

Input voltage

24 V DC (+10/-15 %)

15...40 V DC

10...32 V AC; 12...42 V DC

Input current

1.2 A

1 A, 4 A (24 V DC)

max. 3 A

Input fuse (internal)

2 A (T)

6.3 A (T)

6.3 A (T)

Frequency

–

50/60 Hz

Output

Output voltage

5 V DC (SELV), ±5 %

5...35 V DC (SELV), Uout-max. = Uin - 5 V

Output current

max. 1.2 A

max. 4 A

max. 3.5 A

Ripple

max. 0.2 % eff

max. 300 mV rms

Output fuse

short-circuit protected

General data

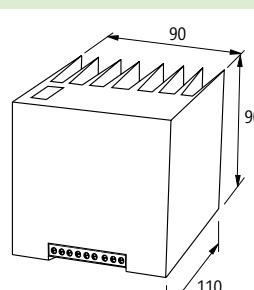
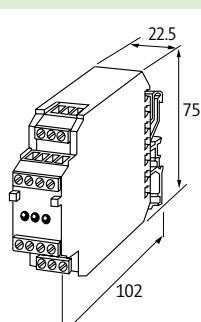
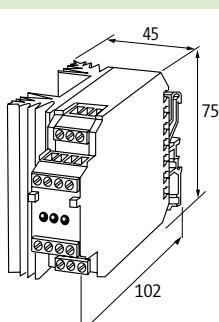
Temperature range

-20...+60 °C, no condensation

Mounting method

DIN-rail mountable TH35 (EN 60715)

Dimension drawing



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Notes

CONVERTERS / RECTIFIERS

Rectifier modules

- Single-phase

- IP00

NC 2

INPUT: max. 41 V AC



NC 5

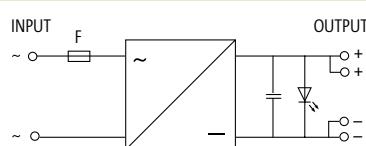
INPUT: max. 41 V AC

NC 10

INPUT: max. 29 V AC



Circuit diagram



Order Data

24 V DC/2.6 A

HxWxD

86x45x92 mm

Art-No.

85700

Art-No.

85710

Art-No.

85730

24 V DC/5 A

24 V DC/10 A

Input

Input voltage

max. 5...44 V AC

max. 29 V AC

Input current

max. 2.6 A; 1.8 A (+60 °C)

max. 5 A; 4 A (+60 °C)

max. 10 A

Frequency

45...65 Hz

50/60 Hz (or as additional smoothing for DC)

Input fuse (external)

–

8 A (T), 5 × 20 mm

16 A (T), 5 × 20 mm

Input fuse (internal)

3.15 A (T), 5 × 20 mm

–

Output

Output voltage

U-IN × 1.16/max. 60 V DC

U-IN × 1.16/max. 39 V DC

Output current

max. 2.6 A; 1.8 A (+60 °C)

max. 5 A; 4 A (+60 °C)

max. 10 A

Ripple

max. 5 % rms

Output filter

smoothed with smoothing capacitor and LED

General data

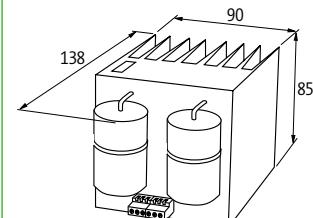
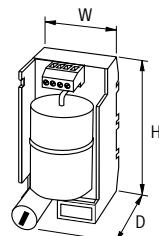
Temperature range

-20...+60 °C

Mounting method

DIN-rail mountable TH35 (EN 60715)

Dimension drawing



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Notes