

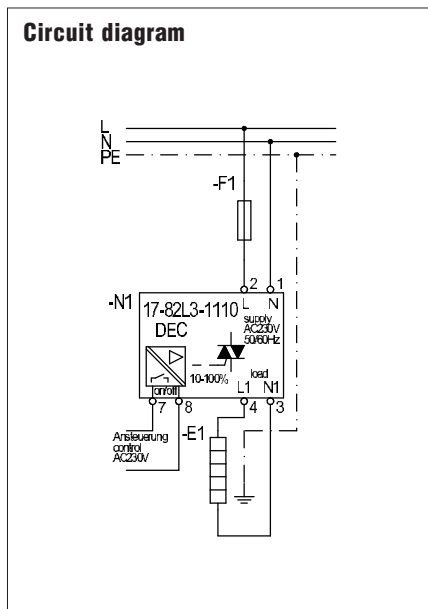


DEC Digital energy controller

Features

- AC 230 V control
- AC 230 V supply voltage
- Can be snapped on DIN rail
- Adjustable power output from 10 % up to 100 % in steps of 10
- Switching capacity AC 230 V, 20 A
- Display: supply voltage, heating on

Circuit diagram



Description

The DEC is an adjustable energy controller. It allows perfect adaption of the power output from 10 % to 100 % in 10 %-steps. Combined with the DPC-Family, the DTL III Ex and Pt100 Ex, the DEC can also be used to control heating systems in hazardous (potentially explosive) areas.

Structure

The DEC case can be snapped onto a DIN rail allowing quick and easy installation. The energy controller is energised via 230 V mains supply voltage.

The terminals can accommodate conductors with a cross section of up to 2.5 mm². DEC control via AC 230 V. The front fascia of the case provides a 10-step switch for the power adaption from 10 % to 100 %. An LED on the front fascia indicates whether supply voltage is applied to the DEC. A second LED signals an active/non active DEC output.

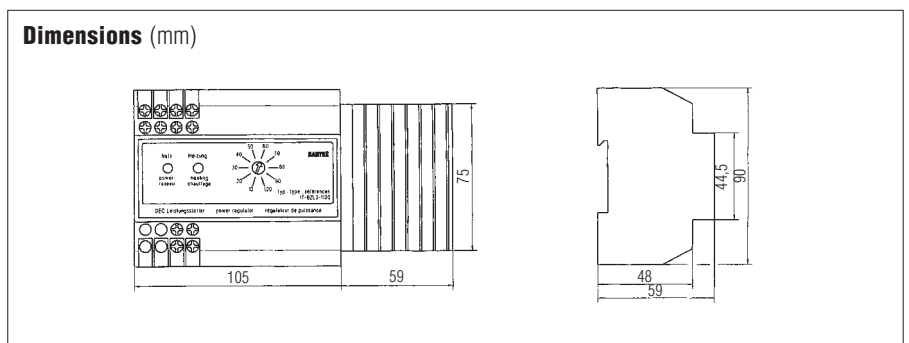
Function

The DEC is controlled via a AC 230 V supply periodic group control is activated via a 10-step switch and the output power of the DEC adjusted from 10 % to 100 %.

Additional products

- DPC III, Digital programmable controller
Type 17-8821-4.22/22303.00
- DTL III Ex, Digital temperature limiter
Type 17-8865-4.22/22003000
- Pt100 Ex, explosion protected
Type 27-71...-13.....

Dimensions (mm)



Technical data

Protection class

IP 20

Min. ambient temperature

0 °C

Max. ambient temperature

+40 °C

LED displays

Supply voltage ON
Heating ON

Mounting

snaps onto TS 35 (DIN rail)

Enclosure material

ABS plastic

Dimensions (without heat-sink)

Length (105 mm) 164 mm
Width 90 mm
Depth 59 mm

Weight

520 g

Electrical data

Rated voltage

AC 230 V/50 Hz

Switching capacity

max. switched current AC 20 A
max. voltage AC 250 V
min. AC 230 V
min. 50 mA

Control

AC 230 V

Adjustable power output

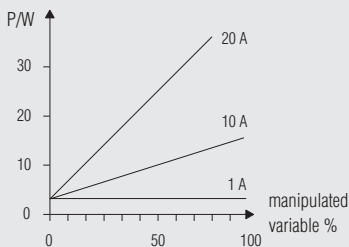
from 10 % up to 100 % in steps of 10

Terminals

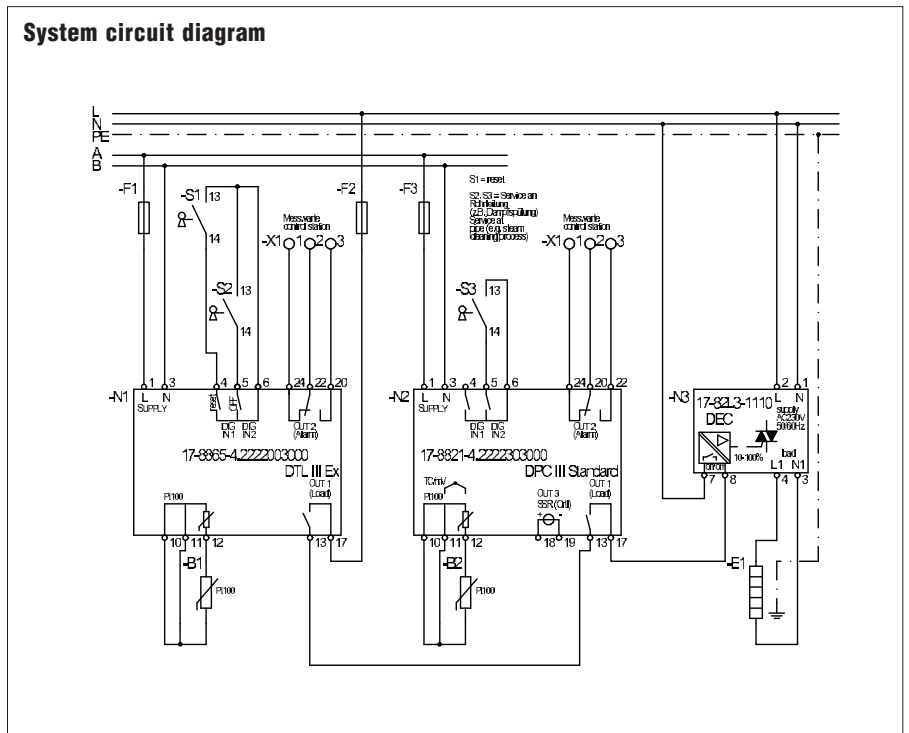
2.5 mm² solid or
1.5 mm² stranded with sleeve

Power dissipation

dependent of the manipulated variable



System circuit diagram



Order no.
17-82L3-1110