

Power supply unit AN450



Power supply unit AN450



Device features

- Power supply unit for the supply of Bender devices with AC 20 V and a power consumption of maximum 9 VA
- Supply of 3 MK2430/1 MK800 alarm indicator and test combinations (for example)
- · Protected secondary circuit

Approvals



Product description

The power supply unit AN450 is designed to supply Bender devices with a supply voltage of AC 20 V and a total power consumption of maximum 9 VA.

A maximum of 3 alarm indicator and test combinations MK2430/MK800 can be supplied, for example.

Function

The supply voltage will be connected to the terminals A1/A2. The output voltage AC 20 V is available across the terminals U2/V2. The unit features two input and output terminals, so that several AN450 can be connected in parallel, if required. The terminals A1/A2 and U2/V2 must not be interchanged.

The secondary circuit of the built-in safety transformer is protected by a PTC resistor.

Details about the cable length

The maximum number of devices that can be connected depends upon the loss of voltage in the line between AN450 and the device.

Please take the note of supply voltage ranges as well as the tolerance of the system voltage: In case of long cables, check the value of the supply voltage across the terminals of the connected device. If the loss of voltage in the line is too great, a point-to-point connection is recommended.

Standards

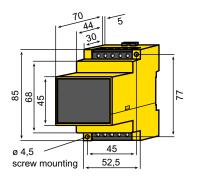
The ISOMETER® of the AN450 series complies with the requirements of the device standards: IEC 61558-2-6.

Ordering information

Output voltage	Nominal voltage	Type	Art. No.
AC	AC	1,700	Alt. No.
201/ 50 (0.11	230 V, 5060 Hz	AN450	B 924 201
20 V, 5060 Hz	127 V, 5060 Hz	AN450-133	B 924 203

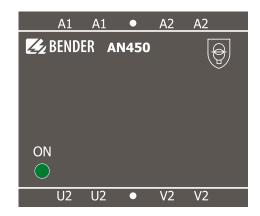
Dimension diagram

Dimensions in mm



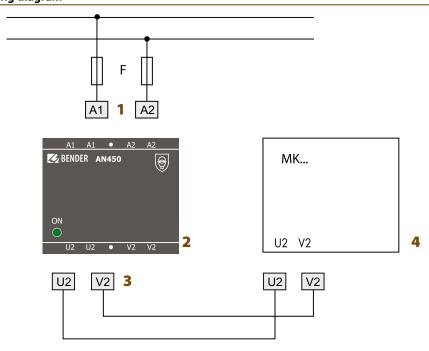
Operating elements

Operation LED (green) "ON" lights, when the device is in operating state.





Wiring diagram



- 1 A1, A2 = supply voltage U_{S} ; F = short circuit protection
- 2 Power supply unit AN450
- 3 U2, V2 = output voltage
- 4 Alarm indicator and test combination

Technical data

Rated voltage	AC 250 \
Overvoltage category/pollution	degree III/2
Rated impulse voltage	4 k\
Altitude	≤ 2000 m NN
Voltage ranges	
Nominal voltage	see ordering detail:
Frequency range	see ordering detail:
Operating range of rated voltage	e 0.851.1
Output voltage	AC 20 V, 5060 Hz
Rated output Power	≤ 9 VA
Internal secondary protection	PTC resisto
Enviroment/EMC	
EMC immunity	acc. to EN 61000-6-2
EMC emission	acc. to EN 61000-6-4
Classification of climatic con-	ditions acc. to IEC 60721
Stationary use	3K5 (except condensation, water and formation of ice
Transport	2K2
Storage	1K2
Operating temperature	- 10+ 55 °C
Classification of mechanical	conditions acc. to IEC 60721
Stationary use	3M4
Transport	2M2
Storage	1M3

Connection	screw terminals
Connection properties:	Sciew terminals
rigid/flexible/Conductor sizes	0.24/0.22.5 mm ² /AWG 24-12
Connection, flexible with connector sleeve	0.252 mm ²
Stripping length	8 mm
Tightening torque, terminal screws	0.5 Nm
Other	
Other	
Operating mode	continuous operation
Operating mode	continuous operation any position
Operating mode Mounting Protection class internal components/terminals	any position
Operating mode Mounting	any position
Operating mode Mounting Protection class internal components/terminals Screw fixing	any position (DIN EN 60529) IP30/IP20
Operating mode Mounting Protection class internal components/terminals	any position (DIN EN 60529) IP30/IP20 2 x M4
Operating mode Mounting Protection class internal components/terminals Screw fixing DIN rail mounting acc. to	any position (DIN EN 60529) IP30/IP20 2 x M4 DIN EN 60715/IEC 60715



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