AN450

Power supply unit







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 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.

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 alarm indicator and test combinations (for example)
- · Protected secondary circuit

Approvals



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:

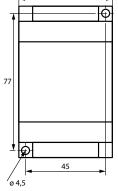
• IEC 61558-2-6.

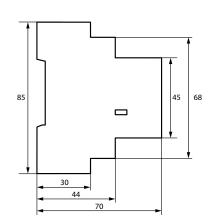
Ordering information

Туре	Output voltage	Nominal voltage	Art. No.
AN450	AC 20 V, 5060 Hz	AC 230 V, 5060 Hz	B924201
AN450-133		AC 127 V, 5060 Hz	B924203

Dimension diagram

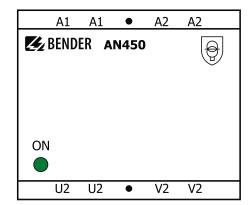
Dimensions in mm





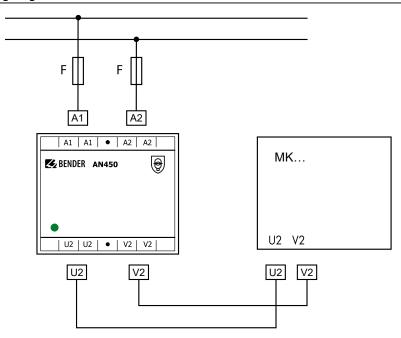
Operating elements

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





Wiring diagram



A1, A2	supply voltage U _S ;	
F	F short circuit protection	
U2, V2	output voltage	

Technical data

Insulation coordination acc. to IEC 60664-1	
Rated voltage	AC 250 V
Overvoltage category/pollution degree	III/2
Rated impulse voltage	4 kV
Altitude	≤ 2000 m NN
Voltage ranges	
Nominal voltage	see ordering details
Frequency range	see ordering details
Operating range of rated voltage	0.851.1
Output voltage	AC 20 V, 5060 Hz
Rated output Power	≤ 9 VA
Internal secondary protection	PTC resistor
Enviroment/EMC	
EMC immunity	acc. to EN 61000-6-2
EMC emission	acc. to EN 61000-6-4
Classification of climatic conditions acc. to IEC 60721	
Stationary use	3K22
Transport	2K11
Storage	1K21
Operating temperature	- 10+ 55 ℃
Classification of mechanical conditions acc. to IEC 60721	
Stationary use	3M11
Transport	2M4
Storage	1M12

Connection	screw terminals
Connection properties:	
rigid/flexible/Conductor sizes	0.24/0.22.5 mm ² /AWG 24-12
Connection, flexible with connector sleeve	0.252 mm
Stripping length	8 mm
Tightening torque, terminal screws	0.5 Nm
Other	
Operating mode	continuous operation
Mounting	any positior
Protection class internal components/terminals (DI	IN EN 60529) IP30/IP20
Screw fixing	2 x M ⁴
DIN rail mounting acc. to	DIN EN 60715/IEC 60715
Flammability class	UL94V-0
Standards	IEC 61558-2-6
Documentation number	D00100
Weight	≤ 400 c





Londorfer Straße 65 35305 Grünberg Germany

Tel.: +49 6401 807-0 info@bender.de www.bender.de



© Bender GmbH & Co. KG, Germany Subject to change! The specified standards take into account the edition valid until 07.2024 unless otherwise indicated.