Power supply unit AN420

Power supply unit for measuring current transformers



Product description

The power supply unit AN420 is used to supply measuring current transformers of the W...AB series. The CTs are to be supplied with a symmetrical supply voltage of DC \pm 12 V using a pre-fabricated connecting cable of the WXS... series.

The power supply unit is capable of supplying a maximum of six measuring current transformers of the W...AB series.

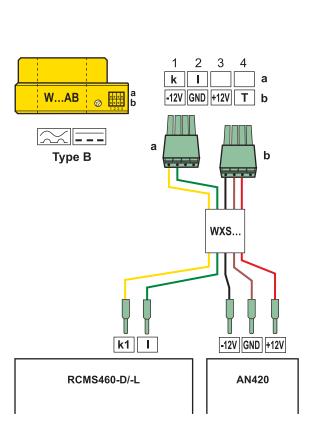
The ON LEDs +12 V, -12 V indicate that the symmetrical output voltage of \pm 12 V is applied.

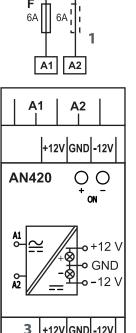
Approvals





Wiring diagram





GND

- 1 Supply voltage US
- 2 Short-circuit protection of U_S, a 6 A fuse is recommended
- 3 Symmetrical output voltage

Colours of the conductors of the connecting cable WXS...

k1 = yellow, I = green, -12 V = black, GND = brown, +12 V = red



Technical data

Insulation coordination acc. to IEC 60664-1 / IEC 60664-3		
Rated insulation voltage	AC 250 V	
Rated impulse voltage / pollution deg	ree 4 kV / III	
Protective separation (reinforced insu	lation) between (A1, A2) - (+12 V, GND, -12 V)	
Voltage test according to IEC 61010-1	2.21 kV	
Supply voltage		
Supply voltage U _S	AC / DC 70276 V	
Frequency range of U _S	DC, AC 42460 Hz	
Power consumption	≤ 30 VA	
Output of the power supply unit		
Output voltage	DC \pm 12 V, short-circuit proof	
Operating range	11.912.1 V	
Rated output	9 W	
Cable length		
Recommended cable	WXS100WXS1000 (see ordering information)	
Environment / EMC		
EMC	DIN EN 61000-6-4	
	DIN EN 61000-6-2	
Operating temperature	- 25 °C+ 55 °C	
Climatic class acc. to IEC 60721		
Stationary use (IEC 60721-3-3)	3K5 (except condensation and formation of ice)	
Transport (IEC 60721-3-2)	2K3 (except condensation and formation of ice)	
Storage (IEC 60721-3-1)	1K4 (except condensation and formation of ice)	
Classification of mechanical condition	3.2007.21	
Stationary use (IEC 60721-3-3)	3M4	
Transport (IEC 60721-3-2)	2M2	
Long-time storage (IEC 60721-3-1)	1M3	

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(O	nne	ecti	on

Connection	screw terminals
rigid / flexible / conductor sizes	0.24 / 0.22.5 mm ² / 2412 AWG
Multi-conductor connection (two conduct	ors of the same cross section)
rigid / flexible	$0.21.5 \text{ mm}^2 / 0.21.5 \text{ mm}^2$
Stripping length	89 mm
Tightening torque	0.50.6 Nm

Other

continuous operation
see dimension diagram and screw fixing
EC 60529) IP30
IP20
polycarbonate
UL94 V-0
IEC 60715
2 x M4 with mounting clip
BP409017
≤ 140 g

Ordering information

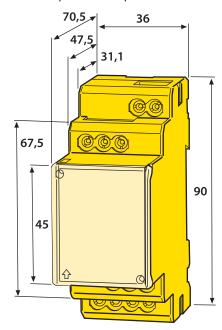
Туре	Supply- voltage Us	Output- voltage	Art. No.
AN420-2	DC / AC 42460 Hz 70276 V	DC ± 12 V 400 mA	B 9405 3100
Mounting clip for screw fixing (1 piece per device, accessories)		B 9806 0008	

Connecting cables for measuring current transformers of the W...AB series

Туре	Length	Art. No.
WXS-100	1 m	B 9808 0506
WXS-250	2.5 m	B 9808 0507
WXS-500	5 m	B 9808 0508
WXS-1000	10 m	B 9808 0509

Dimension diagram XM420

Dimensions in mm – Open the front plate cover in direction of arrow!



Screw mounting

Note: The upper mounting clip must be ordered separately (see ordering information)!

