

LABOR - ASTER

INDUSTRIAL AUTOMATION







AC ADAPTER type As 405

PURPOSE

As 405 adapters are used in automation system, industrial controllers as well as in control and measurement systems as a small-sized source of stabilized DC voltage with high current efficiency. These adapters are designed for mounting on a 35 mm rail.

HOUSING

Adapters consist of a printed circuit board placed upright in a housing made of steel sheet coated with black powder. On the board there is a transformer, a diode heat sink, a fuse and an output terminal WAGO (4 clamps for output voltages, 3 clamps for input supply voltage and a protective conductor). The terminal is on the front panel of the adapter. The clamps allow the attachment for wires up to 2.5 mm². Clamp spring can be opened with a small screwdriver used as a lever by putting it into rectangular hole visible on the terminal.

SPECIFICATION

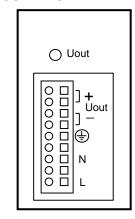
Outset wells as		041/
Output voltage	-	24 V _{DC}
Load current	-	0 1A,
		overload ma 1.5A
Supply voltage	-	90 V260 V / 50 Hz
Maximum current consumption	_	0,5 A
in steady state		-,
EMI-RFI		
according to PN-89/E-06251		level B
	-	
according to PN - EN55022	-	level B
Leakage current (ungrounded housing)	-	< 0,75 mA
Frequency	-	100 kHz
Efficiency at nominal conditions	-	> 78 %
Output voltage stabilization from AC	-	< <u>+</u> 0,5 %
voltage changes at nominal currents		
Output voltage stabilization from load	_	< 1%
current within acceptable current		1 1,0
changes		
•		< 1%
Output voltage ripple (peak-to-peak	-	< 176
value in 30MHz band width)		100.0/ 110.0/ 11
Overvoltage protection	-	120 % -140 % Unom
Thermal protection	-	turn of power supply
(temp. IC3 > 100 ° C)		
Short-term output power consumption	-	≤ 50W
Total weight	-	0,3 kg
Operating conditions		, 3
temperature	_	+ 5 - + 50 °C
relative humidity	_	40 % - 95 %
atmospheric pressure	_	87 kPa - 107 kPa
	-	01 KI a - 101 KFa
dust groups according to		7.4
PN 83/T-42106	-	Z4
sinusoidal vibrations	-	to 0.1 mm, 5 - 35 Hz

ELECTRICAL TERMINALS DESCRIPTION

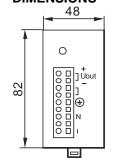
LED – indication of the output voltage presence

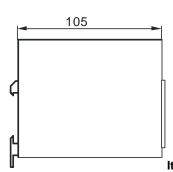
U out - output voltage

protective conductor N – neutral AC wire L – phase AC wire



DIMENSIONS





is possible to order version "As405 AWB 27.6V/1A" designed for accumulator battery buffer supply.

INSTALLATION

- 1. Adapter should operate in a vertical position to provide free air convection through the ventilation openings.
- 2. Please ensure the correct coloring of the 230V voltage cables: phase wire ⇒ brown,

 $neutral\ wire \Rightarrow blue,$

protective conductor \Rightarrow yellow-green.

- 3. The cross-section of the L and N supply wires as well as protective conductor should be at least $0.75 \, \text{mm}^2$. The cross-section of the output wires should come to at least $1 \, \text{mm}^2$.
- 4. The connection cables should be made of insulated copper wire (single wire), in case of using LgY cable (multi wire) should be ended with special lugs which prevent sliding of a single wire. Soldering isolated wire is not a sufficient protection.
- 5. In the adapter's power supply circuit should be a double-pole switcher which is accessible to the operator and allows sure disconnection of the 200V power supply if necessary (service, adapter replacement, fire danger etc.).

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Production and distribution: LABOR – ASTER

impacts -

Poland, 04-218 Warsaw, ul. Czechowicka 19

unacceptable

tel. +48 22 610 71 80; +48 22 610 89 45; fax. +48 22 610 89 48

e-mail: biuro@labor-automatyka.pl | labor@labor-automatyka.pl ; http://www.labor-automatyka.pl

The manufacturer reserves the right to make changes to the product.