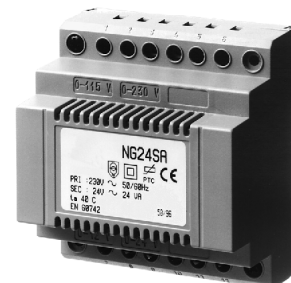


## NG12SA NG24SA

### Transformer

with housing



**Transformers providing a reduction in voltage from AC 230 V to AC 24 V.**

- Output power 12 VA or 24 VA
- Integral self-resetting primary fuse

#### Use

Both the NG12SA and NG24SA mains transformers (with housings) reduce an AC 230 V mains voltage to the AC 24 V supply voltage required by the controllers. The transformers are available with output power ratings of 12 VA (NG12SA) or 24 VA (NG24SA). An integral self-resetting fuse on the primary side protects the transformer from overheating.

#### Type summary

Type	Max. power	Nominal current secondary	Current consumption primary
<b>NG12SA</b>	12 VA	0.5 A	45 mA
<b>NG24SA</b>	24 VA	1.0 A	60 mA

#### Ordering

When placing an order, please specify the quantity, product description and type code.

*Example:*

**1 transformer, type NG12SA**

#### Mechanical design

The NG12SA / NG24SA transformers are single-phase split-bobbin safety transformers. They comply with European standard EN60742.

On the primary side, the transformers are protected by a built-in PTC fuse, and no additional fuse protection is required. If the primary-side fuse trips, the fault condition on the secondary side must be cleared. When the transformer cools down, the fuse will reset automatically and normal operation will be resumed.

#### Transformer sizing

The transformer power can be calculated by adding together the power consumption of all the connected devices. For valves, a figure of 1.5 times the nominal power of the valve should be used. In the case of valves connected in a sequence where only one valve (heating or cooling) can be open at any given time, only the larger valve need be included in the calculation. Where it is possible for several valves to be open at the same time, the nominal power of all connected valves must be added together.

<i>Example :</i>	1 controller		4 VA
	1 valve actuator (heating)		2 VA
	1 valve actuator (cooling)	( x 1.5)	13 VA
			<hr/>
		Total	17 VA

Required transformer : **NG24SA**

## Mounting / installation notes

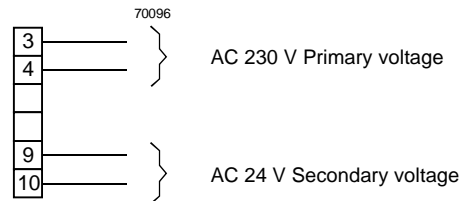
The transformer may be screwed to a flat surface with two screws (3.5 diameter x approx. 40 mm) or mounted on a DIN rail (type EN50022-35 x 7.5).

In respect of electrical installation, the regulations of the local or national electricity supply company must be observed.

## Technical data

Supply voltage and frequency	AC 230 V, 50 / 60 Hz
– Max. voltage tolerance	+10/–15 %
Primary fuse	Integral, self-resetting (PTC)
Secondary voltage	AC 24 V
Output power	NG12SA : 12 VA NG24SA : 24 VA
Connection terminals	Screw terminals, 2.5 mm <sup>2</sup>
Weight (including packaging)	NG12SA : 0.5 kg / NG24SA : 0.7 kg
Dimensions (W x H x D)	87.5 x 93(99) x 67.5 mm
Mounting	Snap-mounted on rail type EN50022-35 x 7.5 or screwed to a flat surface
Orientation	Any
Product safety	EN60742
Contamination level	Normal contamination
General ambient conditions	
– Conditions of use	– For internal use, in control panels etc. – Up to 3000 m above sea level
Temperature range:	
– Operation	0 ... 50 °C
– Storage	– 25 ... 70 °C
Ambient humidity	Max. 65 %rh, non-condensing
Conformity	Meets the requirements for CE marking

## Connection terminals



## Dimensions

All dimensions in mm

