

SATD1

Safety isolating transformer for DIN-rail

The SATD1 series are compact single-phase safety isolating transformers designed for T35 DIN-rail mounting. They provide safe electrical isolation of the input and output. They are also suitable for creating SELV and PELV circuits because of the limitation on the output voltage. The SATD1 safety isolating transformers are short circuit and overload protected with a built-in PTC device in the primary winding.

Key features

- Resin encapsulated transformer
- Supply voltage: 230 VAC $\pm 10\%$ / 50–60 Hz
- Output voltage: 12 / 24 VAC
- Output power: 25 / 40 / 63 VA versions
- Frequency: 47–63 Hz
- Test / insulating voltage: 4 kV AC RMS
- Construction class: II
- Insulation class: B (130 °C)
- Short-circuit and overload protection (PTC device in primary winding)

Technical specifications

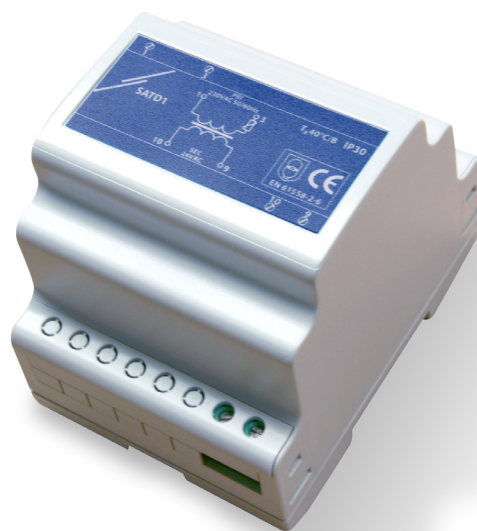
Primary voltage	230 VAC $\pm 10\%$	
Frequency	47–63 Hz	
Secondary voltage	12 VAC $\pm 5\%$ or 24 VAC $\pm 5\%$	
Output power	25 / 40 / 63 VA (depends on the version)	
Test / insulating voltage	4 kV AC RMS, between primary and secondary windings	
Construction class	II	
Insulation class	B (130 °C)	
Short circuit current	< 2.0 A	
Protection standard	IP30 (according to EN 60529)	
Ambient conditions	Temperature	max. 40 °C
	Rel. humidity	< 90 % rH (non-condensing)

Area of use

- General use, applications where safe electrical isolation of the inputs and outputs is required
- Electric appliances where 24 VAC or 12 VAC is required
- Industrial applications where delivery of SELV (safety extra-low voltage) or PELV (protective extra-low voltage) is required
- Connecting loads that need to be isolated from the main supply and for creation of interference suppression
- Supplying loads that must have a safe insulation and interference suppression from the main supply
- For indoor use only

Standards

- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC: EN 61326
- European Transformer Norms: EN 61558-1 and EN 61558-2-6
- WEEE Directive 2012/19/EU
- RoHS Directive 2011/65/EU

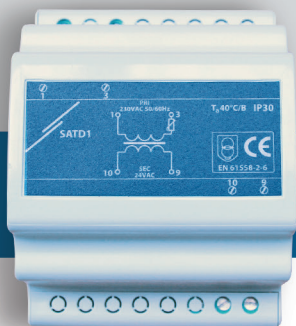


Article codes

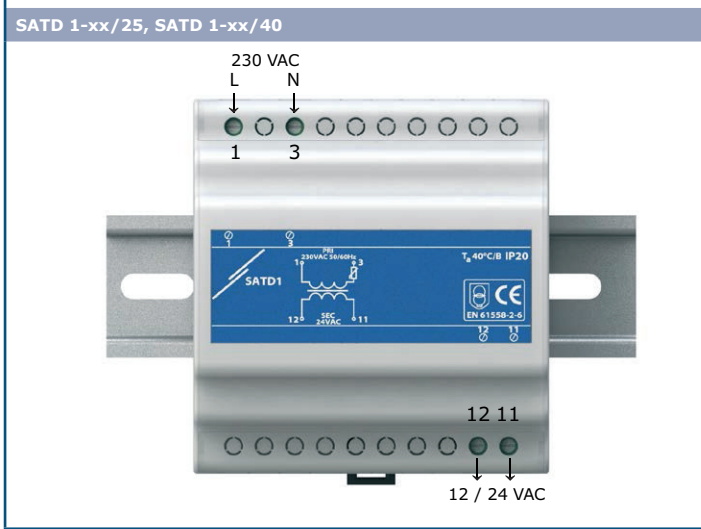
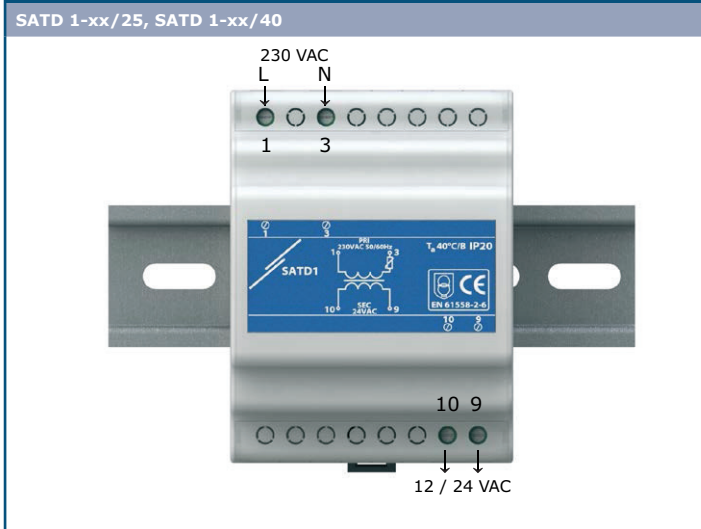
	SATD1-12/25	SATD1-12/40	SATD1-12/63	SATD1-24/25	SATD1-24/40	SATD1-24/63
Supply voltage, [VAC]	230 $\pm 10\%$	230 $\pm 10\%$	230 $\pm 10\%$	230 $\pm 10\%$	230 $\pm 10\%$	230 $\pm 10\%$
Output voltage, [VAC]	12 $\pm 5\%$	12 $\pm 5\%$	12 $\pm 5\%$	24 $\pm 5\%$	24 $\pm 5\%$	24 $\pm 5\%$
Power, [VA]	25	40	63	25	40	63
No-load loss, [W]	5,3	5,5	9,9	5,3	5,5	9,9
No-load secondary voltage, [VAC]	13,9	13,9	13,5	27,4	27,4	26,2
Efficiency, [%]	79	79	80	79	79	80
Enclosure	4 module version	4 module version	5 module version	4 module version	4 module version	5 module version

SATD1

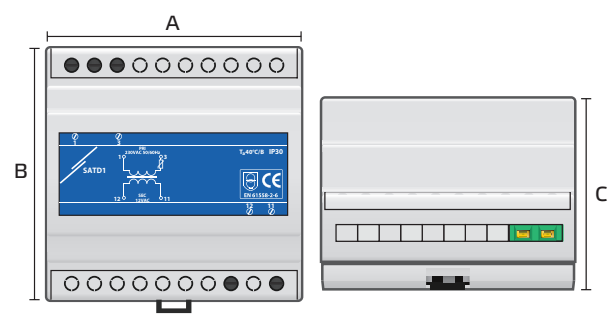
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Wiring diagram

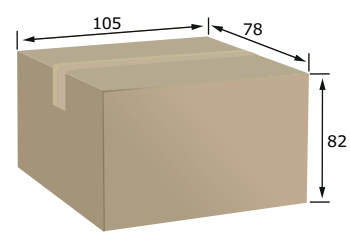


Fixing and dimensions



Article	A	B	C
SATD1-12 / 25	70	94	73
SATD1-12 / 40	70	94	73
SATD1-12 / 63	87,5	94	73
SATD1-24 / 25	70	94	73
SATD1-24 / 40	70	94	73
SATD1-24 / 63	87,5	94	73

Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
SATD1-12/25	Unit (1 pc.)	105	78	82	0,88 kg	0,92 kg
	Box (24 pcs.)	375	340	180	21,12 kg	23,35 kg
SATD1-24/25	Unit (1 pc.)	105	78	82	0,88 kg	0,92 kg
	Box (24 pcs.)	375	340	180	21,12 kg	23,38 kg
SATD1-24/40	Unit (1 pc.)	105	78	82	0,99 kg	1,03 kg
	Box (24 pcs.)	375	340	180	23,76 kg	25,31 kg
SATD1-24/63	Unit (1 pc.)	105	78	82	1,29 kg	1,33 kg
	Box (24 pcs.)	375	340	180	30,96 kg	32,51 kg

Wiring and connections

SATD 1-xx/25, SATD 1-xx/40	
1 / 3	Power supply (230 VAC ±10 %, 50–60 Hz)
9 / 10	Output (12 / 24 VAC ±5 % / 25 VA or 40 VA)
SATD 1-xx/63	
1 / 3	Power supply (230 VAC ±10 %, 50–60 Hz)
11 / 12	Output (12 / 24 VAC ±5 % / 63 VA)
Connections	Cable cross section: max. 2,5 mm ²