

2+2 Automatic Transfer Switch


Instructions for installation & use

Applies to the following models:

Part no.	System voltage	Max current	Number of inputs	Number of outputs	Dimensions in mm (not including protrusions)
90089	230VAC	20amps	2	2	180 x 110 x 11ht

Label No 12069

**DANGER - HIGH VOLTAGE INSIDE
DISCONNECT POWER & REMOVE
ALL 4 PLUGS BEFORE REMOVING
THIS COVER**



ANTARES
engineering with answers

Automatic Transfer Switch

ALL OUTPUTS 230 VAC 20A MAX

www.antares.co.uk

Fridge

↓

Charger

↓

Inverter

↓

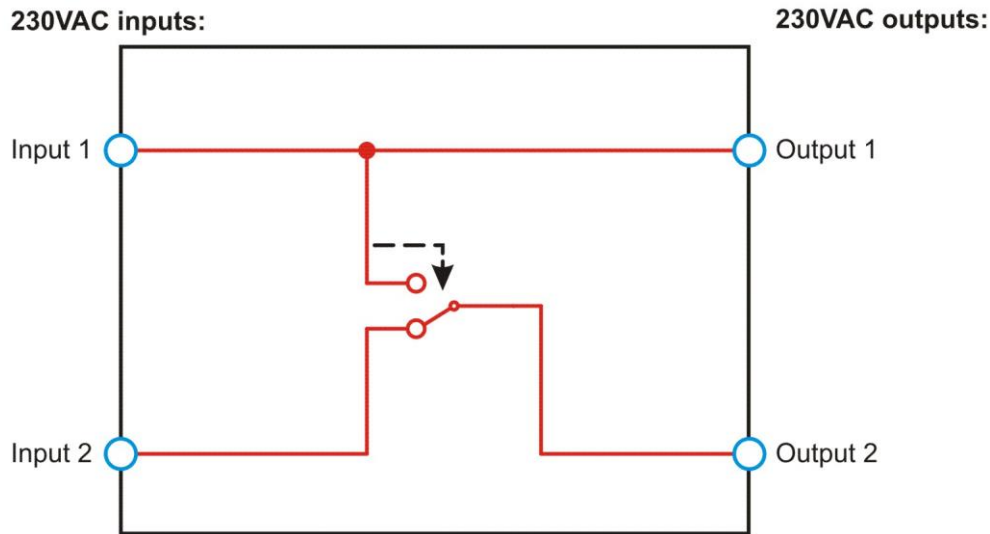
Mains

↓

Output 2	Output 1	Input 2	Input 1
----------	----------	---------	---------

System overview

The transfer switch has two inputs & two outputs, as represented schematically below:



Output 2 is fed from the transfer switch, which is powered from input 2, unless input 1 is present. When input 1 is present, it is always routed through to output 2, & so is called the primary, or priority input.

Output 1 is supplied directly from input 1, for convenience, & is often used to power a battery charger when input 1 is an incoming mains supply.

Critical loads, requiring backup should the primary power fail (input 1), would normally be connected to output 2, with the backup power source supplying input 2.

Installation

The transfer switch must be located in a dry area, not subject to spray or water exposure. Remove the cover to expose the unit mounting holes, ensuring that power is not connected whilst the cover is off.

Mating plugs are supplied with the unit; the blue plugs are for the input sockets & the grey plugs are for the outputs.

The plugs are marked with L, N & earth symbols and should be wired as follows:

- live conductor (brown) to the L terminal
- neutral conductor (blue) to the N terminal
- earth conductor (green/yellow) to the terminal marked E or marked with the earth symbol.

Never apply power to the unit while the access cover is removed.

The maximum current that may pass through the unit is 20amps, & the sources of supply should incorporate protection devices (fuses or MCB's) to disconnect if this rating is exceeded. The trip current of these devices should also be selected protect the installation wiring, which may require devices of lower current rating than 20amps.

User information

The connectors on the transfer switch are not intended to be used to regularly connect & disconnect load equipment & power sources. Following installation, they would normally be left connected. The connectors provide for ease of maintenance & also allow output 2 loads to be temporarily moved to output 1 should the need arise.

Green indicator lamps adjacent to each connector show that power is present on their associated connectors.

WARNING: Never rely on these lamps to indicate power present if the unit cover is to be removed – always remove all plugs from the unit to ensure that there are no exposed hazardous voltages.

The unit is fully automatic in operation, so no user intervention is required.

Contact details:

Antares TDC
Knives Beech Business Centre
Davies Way
Loudwater
High Wycombe
HP10 9QR

Telephone: +44 1628 535440
Facsimile: +44 1628 535441
e-mail: info@antares.co.uk
website: <http://www.antares.co.uk>

© 2013 Antares – a division of TDC (Aberdeen) Ltd.