Automatic Transfer Switch

MULTI-SOURCE 230V or 110V AC SWITCHING



The basic 2+2 Automatic Transfer Switch allows power to be safely switched between any two AC input sources (typically a landline and a backup inverter) and two outputs (often "essential" and "nonessential" loads) . The 3+3 Automatic transfer switch switches between 3 sources—typically a shoreline, an on-board gen-set and a back-up inverter.

Either unit can be used in conjunction with shoreline, traditional generating sets, combination inverters/chargers and belt or hydraulically driven generators.

Using the two types in conjunction or "daisy chaining" them enables complex systems to be accommodated. Either unit can be configured for 230VAC or 110VAC use.

The protection module completes the picture making an easy to install safe and reliable system.

If you need transfer switches for your application, our engineers are able to advise how to apply these modules or if necessary adapt the concept to meet your exact requirements.

KEY FEATURES

- Simple to fit
- Current up to 20A
- Power switching to 4.6kW
- Pre-made plug and socket connections
- "Input/Output live" indicators
- IP66 rated enclosure (IP20 connectors)
- Earth leakage trip protection module

Overview

The system incorporates all the necessary switching between landline and inverter. One input—usually the landline, is prioritised and used when available, but when it isn't automatically switches to the alternative input. Where more inputs are present, a 3+3 can be used, or units can be "daisy-chained" to build a more complex system out of standard components.

Safety

The transfer switch system is designed to interlock the various power sources so that only one source can be used at a time. This ensures that there is no danger of live mains appearing on the exposed pins of any external leads elsewhere in the installation.

This feature also ensures that no "out of phase" arcing can appear on the output of the attached inverter avoiding damage to the output power devices.

The system conforms to the requirements of the European low voltage directive with contact separation distances in excess of 6mm.

Installation simply requires removal of the cover, exposing four corner fixings.

Engineering support

Please call one our applications engineers if you need any assistance. As designers and manufacturers of this equipment we can undertake bespoke products not covered in this literature.

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Auto Transfer Switch

MULTI-SOURCE 230V or 110V AC SWITCHING APPLICATIONS







3+3 AUTO TRANSFER







| | PROTECTION MODULE | 90093 | 90094 |
|--|----------------------|--------------------------------|-------------------------------|
| | Description | 2 WAY PROTECTION MODULE | 3 WAY PROTECTION MODULE |
| | Voltage | 230VAC or 110VAC | 230VAC or 110VAC |
| protection | Max current | 20A | 20A |
| module | Compliant | Low voltage directive | |
| | Protection | 30mA Leakage protection | |
| | Connection | Hard wired via knockout glands | |
| | Weight | TBA kg | TBA kg |
| and the second s | Dimensions | TBA mm | TBA mm |
| | Temp range | -10 to 45°C, 0 to 95% RH | |
| | Environmental | IP20 "in cab" mounting | |

4+4 AUTO TRANSFER

| AUTO TRANSFER SWITCH | 90096 | 90108 | 90097 | 90109 | |
|----------------------|---|------------------------------------|------------------------------------|------------------------------------|--|
| Description | 2+2 AUTO TRANSFER (20A/230V) | 2+2 AUTO TRANSFER (20A/110V) | 3+3 AUTO TRANSFER (20A/230V) | 3+3 AUTO TRANSFER (20A/110V) | |
| Source voltage | 230VAC | 110VAC | 230VAC | 110VAC | |
| Source input | 20A/4.6kVA | 20A/2.2kVA | 20A/4.6kVA | 20A/2.2kVA | |
| Compliant | Low voltage directive | | | | |
| Indicators | 4 x green | | 6 x green | | |
| Connection | Neutrik Powercon, — mating connectors supplied | | | | |
| Weight | ТВА | TBA | TBA | TBA | |
| Dimensions | 180x110x111(H) mm | | ТВА | | |
| Temp range | -10 to 45°C, 0 to 95% RH | | | | |
| Environmental | IP20 "in cab" mounting | | | | |
| Optional parts | 90106NEUTRIK LINK LEAD (230V/BLUE/2M)90107NEUTRIK LINK LEAD (110V/YELLOW/2M)64279NEUTRIK PLUG OUTLET (GREY)64280NEUTRIK PLUG INLET (BLUE) | | | | |

Due to our policy of continuous product development, specifications are subject to change without notice