AUTOMATIC TRANSFER SWITCH

MACKLIN
CONTROLS UK

- **3 Pole & Neutral**
- **Mild Steel Enclosure**
  IP66 Rated
  Powder Coat Painted RAL7035
- **IP20 Terminal Protection**
- **Removable Bottom Gland Plate**
- **LCD Controller showing Graphical Status**
- **Mains-Mains or Mains-Generator Operation**
- **Signalling to start/stop Generator (Gen Setup)**
- **Generator Cool Down Timer (Gen. Setup)**
- **Optional RS485 Modbus Comms**
  (other comms available)
- **Automatic and Manual Modes via Screen**
- **Optional Battery backup supply to controller for generator use.**
- **Optional Remote indication Panel or Volt-Free Contacts to Show Status of the Supplies.**
- **Password Protection**
- **Conforms to:**
  BS EN61439, BS EN60204-1, BS7671
  BS EN / IEC 60947-4, BS EN / IEC 60947-6-1
  & ECA compliant

Macklin Controls UK standard automatic transfer switch. Operation is as follows:

During normal mains supply operation the changeover controller monitors supplies both primary and secondary to ensure they are stable and within the parameters which are set on the controller by the customer (basic setup is preloaded). On detection that the Mains supply is either out of parameters (e.g. loss of phase, over/under voltage, phase imbalance, over/under Frequency) or has failed then the controller will switch over to the Secondary supply if it is available and stable. This can be either instant switching or it can be delayed. You can set the delays before for ATS changes state after detection so to compensate for things like brown outs or slight dips in mains due to switching on of heavy loads which only momentarily affect the voltage or you can delay the switching on of the alternative supply if a generator is used to allow generator to get up to speed. All of these timers can all be setup or changed via the screen.

We provide volt-free contacts which can be used to start/stop the generator, we also provide connections for an optional remote indication panel for showing the status or the supplies. These can also be supplied as volt-free upon request for use of signalling to a BMS (building management system). If being used with a generator then you will need the optional battery backup which maintains the supply to the controller if the mains fails whilst waiting for the

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generator to switch on. This option also has a battery charger circuit so that the mains or generator supply can charge the battery.

Once the generator has started and power is available, the ATS Controller will switch over to the secondary supply. If at any stage of start up the mains supply returns the ATS Controller will monitor the supply for a few seconds (time can be adjusted) to make sure that the primary is back and stable then it will switch back to the primary supply. If using a generator once it has returned to the primary supply then it will keep the generator running off load for a cooldown period which can be adjusted on the display and then once this timer has finished it will turn off the generator via the volt-free contact.

Automatic Transfer Switches
In a Mild Steel Enclosure

Part Number	Rated Current (A)	Poles	Enclosure Dimensions (mm)
MAK ATS 32A 4P M	32	4	600 x 400 x 200
MAK ATS 63A 4P M	63	4	600 x 500 x 250
MAK ATS 100A 4P M	100	4	800 x 600 x 250

We can also provide various other options and current sizes including 3 pole, 2 pole. Also Stainless Steel.
Contact us for more information

HIGHNETT CONTROLS MACKLIN CONTROLS UK SOLATEST RENEWABLES

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