

# BS8519:2020 Compliant Automatic Transfer Switch (ATS) with Dual Line or Single Line bypass



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- 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)
- 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  
BS 8519:2020  
compliant



## Highnett Limited Life Safety ATS with Dual Line or Single Line Bypass 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 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 the it will switch back to the primary supply.

### Dual/Single Line bypass function

This Life Safety ATS switch is fitted with manual Dual Line or Single Line Bypass function. The Bypass function allows for isolation of the ATS whilst also bypassing the primary or secondary supply directly to the outgoing load, enabling essential maintenance/repairs to be done to the ATS without interruption of the supply to the load/services. This can be achieved by operating the switches on the front panel. First switch from Normal operation to bypass which isolates the secondary supply to the ATS and bypasses the primary to the load switch then operate the isolator which disconnects the primary supply and the output from the ATS then you can access the ATS parts without losing the supply to the load. With the single line bypass you only have the Primary supply bypassed to the load but with the Dual line you can operate supply selection switch which allows you to choose either primary or secondary supply as the bypassed supply top the load.

<b>BS8519:2020 Compliant Automatic Transfer Switch (ATS) with Dual Line or Single Line bypass In a Mild Steel Enclosure</b>			
<b>Part Number</b>	<b>Rated Current (A)</b>	<b>Poles</b>	<b>Enclosure Dimensions (mm)</b>
MAK ATSLS 40A 4P M DLB	40	4	800 x 600 x 250
MAK ATSLS 40A 4P M SLB	40	4	800 x 600 x 250
MAK ATSLS 63A 4P M DLB	63	4	800 x 800 x 250
MAK ATSLS 63A 4P M SLB	63	4	800 x 800 x 250
MAK ATSLS 100A 4P M DLB	100	4	1000 x 800 x 250
MAK ATSLS 100A 4P M SLB	100	4	1000 x 800 x 250

**We can also provide various other options and current ratings  
including single phase versions.  
Also available in Stainless Steel or GRP.  
Contact us for more information**