

## Automatic Transfer Switch (ATS) control module

### DESCRIPTION

The configurable **Automatic Transfer Switch Model ATS 004SP** allows many of the industry's demanding specifications to be achieved.

The **ATS 004SP** is used to start a generator on a mains failure, sending a signal to the Automatic Engine Control Module, and transfer the load when engine's operating criteria has been met. The time delay for a warming up the engine before accepting the load and cooling down after relieving the load is set directly on the module (via terminals T1, T2, T3, T4) by a servicing engineer.

On restoration of the mains supply, the engine is returned to standby mode after cooling down period, set by the delay timer.

The **ATS 004SP** allows to work on 3 phase and single phase mains supply.

### How it works

Under normal circumstances when mains power is available, National Grid power Supply runs through the Automatic Transfer Switch (ATS) contactors and connects to your Distribution board. When mains power fails the ATS will pause for a 20sec. period to ensure you haven't had a power spike. ATS will then initiate Generator start signal, warming up the generator and connect the generator power supply to your home or business premises.

Upon mains power being restored the reverse happens and the controls automatically switch from the generator power back to mains shutting down the generator after a cooling down period and restoring it to standby mode.

The **ATS 004SP** series modules have been designed for front panel mounting.

The module is fitted into the cut-out (68X68mm) with the fixing clips removed. These are then fitted from the rear.

### DC Supply:

8V to 15 V Continuous.

Max. Operating Current: 80 mA at 12V

Max. Standby Current: 10 mA at 12 V

Alternator/Mains Input Range: 100 - 300 V AC

Low Frequency Limit: 1Hz

High Frequency Limit: 100Hz;

Mains Contactor Relay output: 10 Amp at 240V AC

Generator Contactor Relay output: 10 Amp at 240V AC

Generator Start Volt Free Relay output: 2 Amp. At 28V DC

Case dimensions: 72 X 72 X 95mm

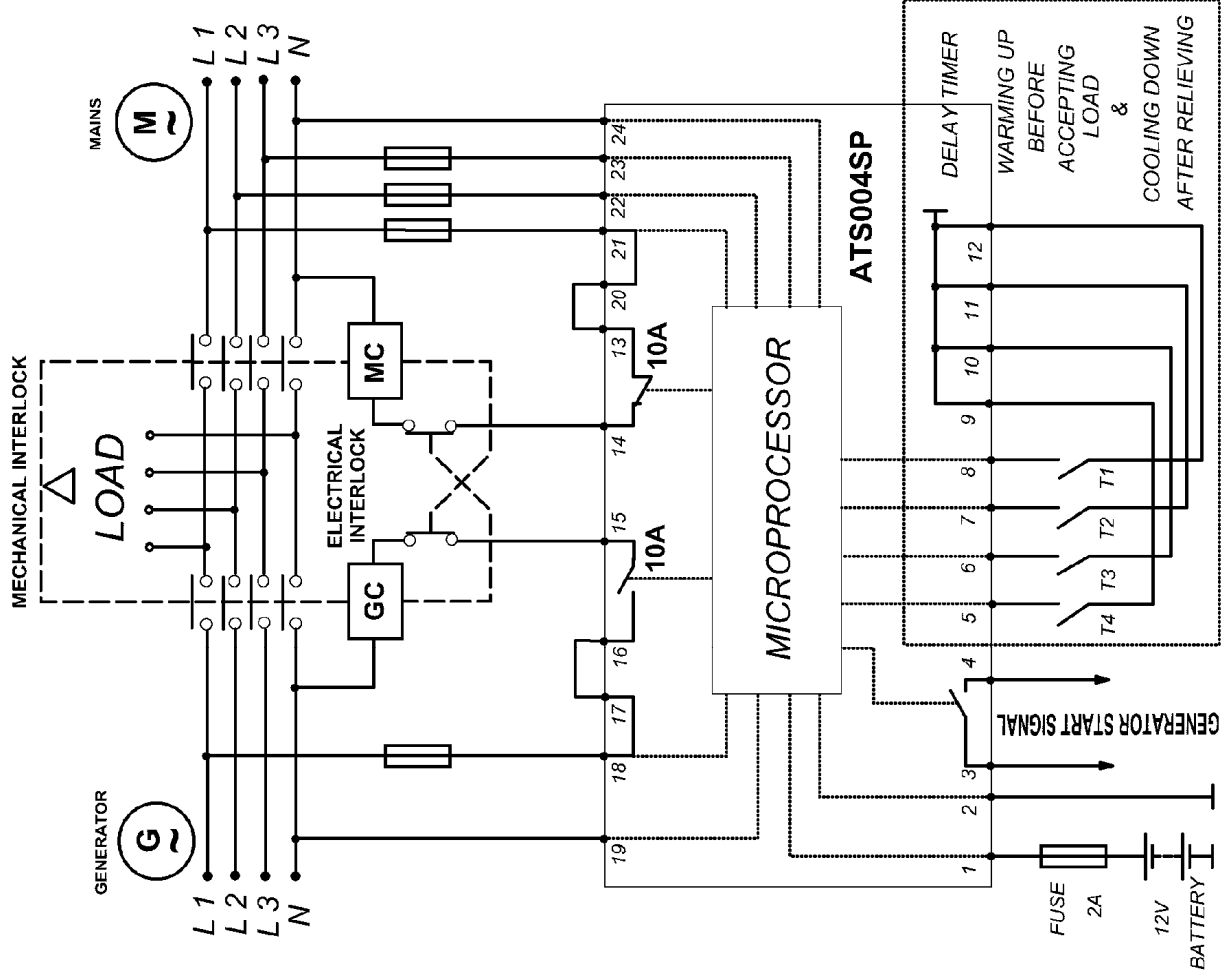
Operating Temperature Range: -30 to +70°C

Delay Timer settings				
T1 sec	T2 sec.	T3 sec.	T4 sec.	Delay time sec.
				10
on				20
	on			40
on	on			60
		on		80
on		on		100
	on	on		120
on	on	on		140
			on	160
on			on	180
	on		on	200
on	on		on	220
		on	on	240
on		on	on	260
	on	on	on	280
on	on	on	on	300

Example: to set up 140 sec. delay time, connect T1, T2, T3 terminals to the battery negative. T4 is left disconnected. Leaving all terminals T1...T4 disconnected the delay time will be 10 sec.



### THREE PHASE CONNECTION



### SINGLE PHASE CONNECTION

