

## Automatic Transfer Switch ATS004SP

### 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 Auto Start Enabled Generator and transfer the load when engine's operating criteria has been met. The engine's warm-up time before accepting the load and cool-down time after relieving the load can be set directly on the module (via terminals T1, T2, T3, T4). The **ATS 004SP** allows to work on 3 phase and single phase mains/generator 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 a generator start signal (closing terminals 3 and 4), warming up the generator within preset time set by **internal programmable timer\*** (terminals 5,6,7,8, table A) and then connect the generator power supply to your home or business premises. Upon mains power being restored the reverse happens and the controller automatically transfers load from the generator power back to mains shutting down the generator after a cool-down period (cool-down period = warm-up period) and restoring it to standby mode. The ATS004SP 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.

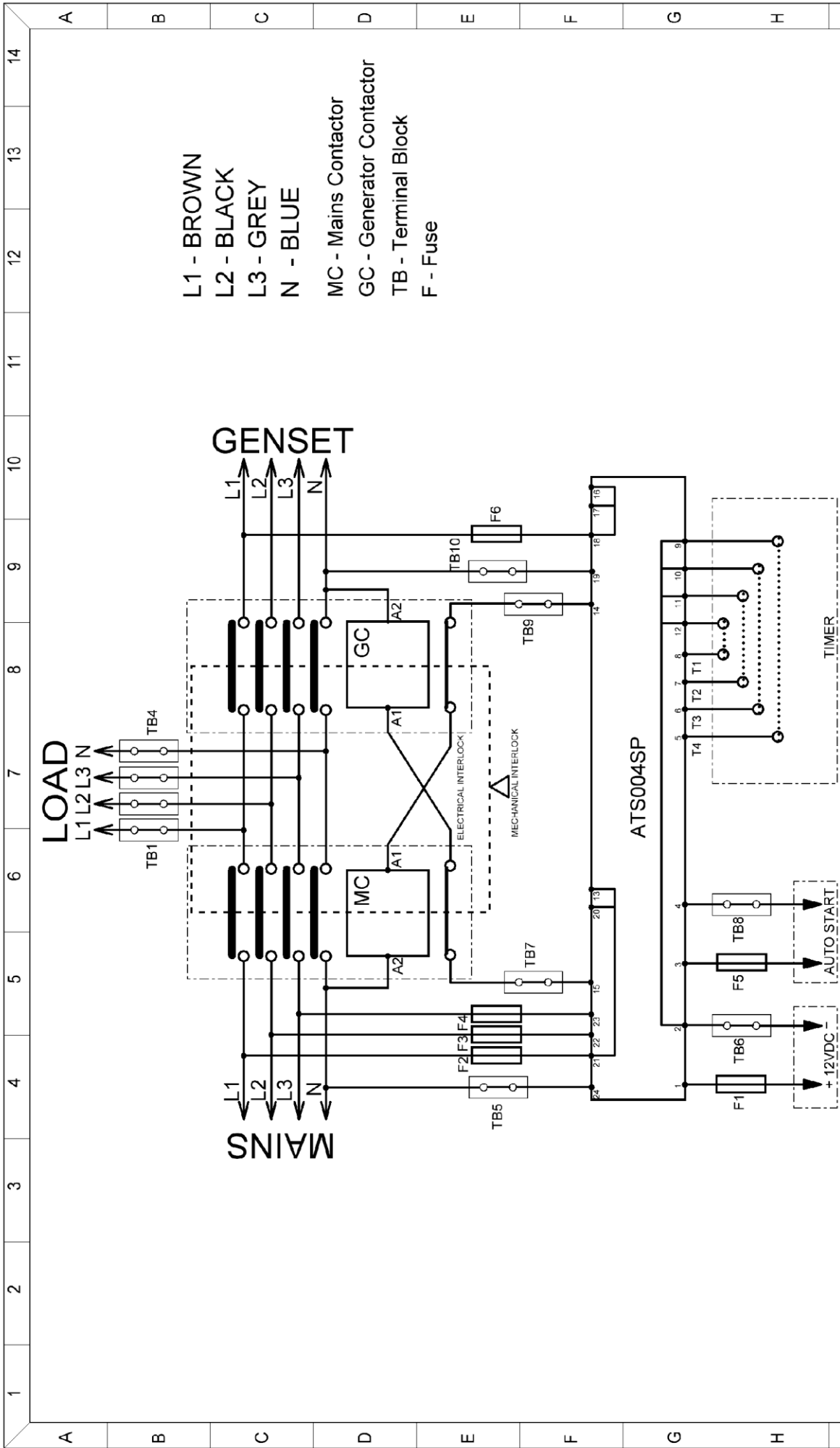
Table A

*Internal programmable timer settings				
T1 (pin 8)	T2 (pin 7)	T3 (pin 6)	T4 (pin 5)	Delay time sec.
				10
•				20
	•			40
•	•			60
		•		80
•		•		100
	•	•		120
•	•	•		140
			•	160
•			•	180
	•		•	200
•	•		•	220
		•	•	240
•		•	•	260
	•	•	•	280
•	•	•	•	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.**

### Technical Specifications

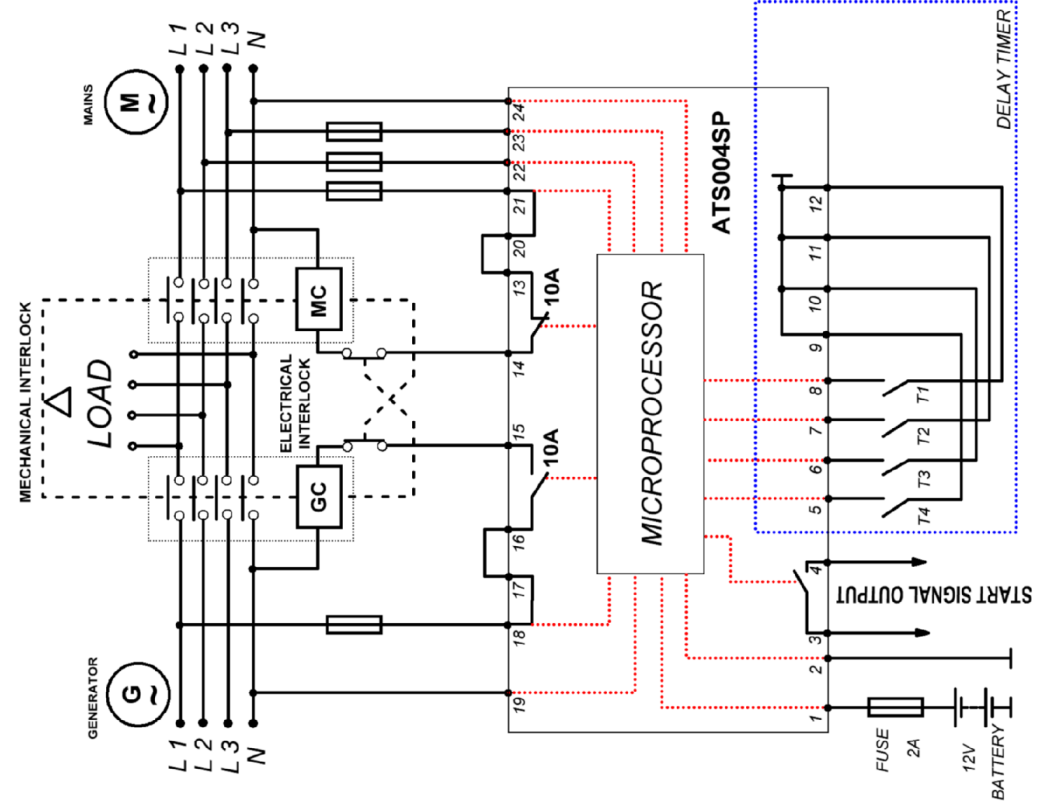
DC Supply: 12VDC (8 to 15 VDC) Continuous.  
 Max. Operating Current: 80 mA at 12V  
 Max. Standby Current: 10 mA at 12 V  
 Alternator/Mains Input Range: 100 - 300 Vac  
 Working frequency range: 10~100 Hz  
 Mains/Generator Contactor Relay output: 10 Amp at 240V AC  
 Generator auto start volt free relay output: 2 Amp. At 28V DC  
 Case dimensions: 72 X 72 X 82mm  
 Operating Temperature Range: -30 to +70°C



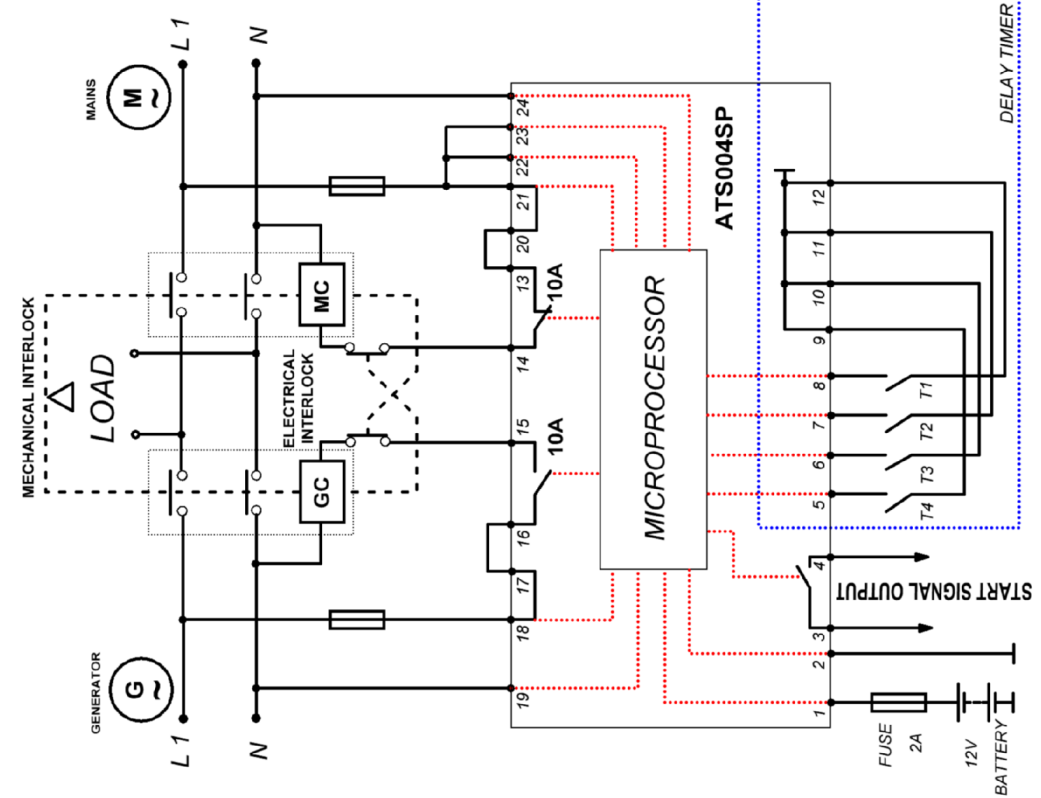
L1 - BROWN  
 L2 - BLACK  
 L3 - GREY  
 N - BLUE  
 MC - Mains Contactor  
 GC - Generator Contactor  
 TB - Terminal Block  
 F - Fuse

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### THREE PHASE CONNECTION



### SINGLE PHASE CONNECTION



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