

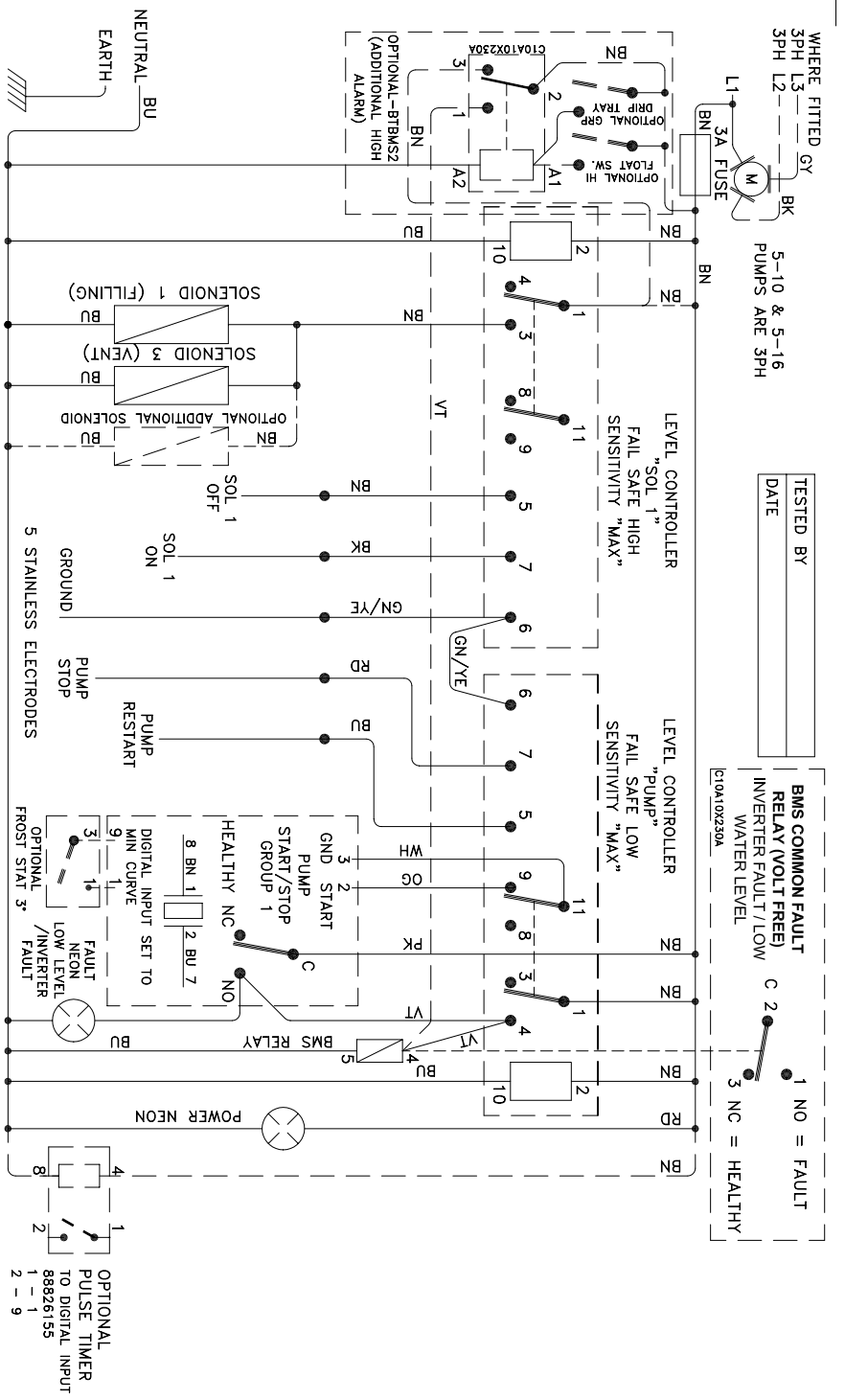
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**BT WIRING DIAGRAM VAR SPEED 1 SOL**

DRN: SHG  
 CHECKED BY:  
 DATE:

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MATERIAL: CARD 160 g/sqm  
 FINISH: LAMINATED  
 SCALE: 100%  
 DRG No: AM077F DATE: 25/09/09

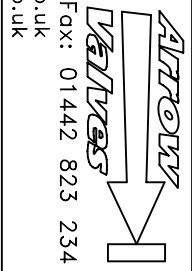


**OPERATION**

CISTERN FILLING IS VIA NORMALLY CLOSED SOLENOID VALVE CONTROLLED BY "SOL 1" LEVEL CONTROLLER. THE FAILSAFE SWITCH SHOULD BE SET TO "HIGH". THE RELAY ENERGISED LED ILLUMINATES WHEN THE SOLENOID IS POWERED. SOLENOID 1 OPENS ONCE THE WATER HAS DROPPED BELOW THE "SOL 1 ON" ELECTRODE AND CLOSSES ONCE THE "SOL 1 OFF" ELECTRODE IS SUBMERGED.

THE PUMP IS CONTROLLED BY A PRESSURE TRANSDUCER AND LOW LEVEL "PUMP" CONTROLLER. THE "PUMP" CONTROLLER CUTS POWER TO THE PUMP IF THE CISTERN IS ALMOST EMPTY. THE LED IS ILLUMINATED UNTIL THE "PUMP STOP" ELECTRODE IS EXPOSED - THE PUMP STOPS. THE PUMP RESTARTS ONCE THE "PUMP RESTART" ELECTRODE IS SUBMERGED. ONCE THE PRESSURE VESSEL IS RECHARGED AND NO FLOW IS DETECTED, THE PUMPS RUNS SLOW FOR A PERIOD THEN STOPS. OPTIONAL - PULSE TIMER, OPERATES THE PUMP FOR 1 SEC EVERY 24 HOURS TO AVOID PUMP SEIZURE / HIGH ALARM FLOAT SWITCH / FROST STAT RUNS PUMP / OPTIONAL GRP DRIP TRAY WITH FLOAT SWITCH.

GO TO [www.arrowvalves.co.uk](http://www.arrowvalves.co.uk) FOR FAULT FINDING CHART.



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