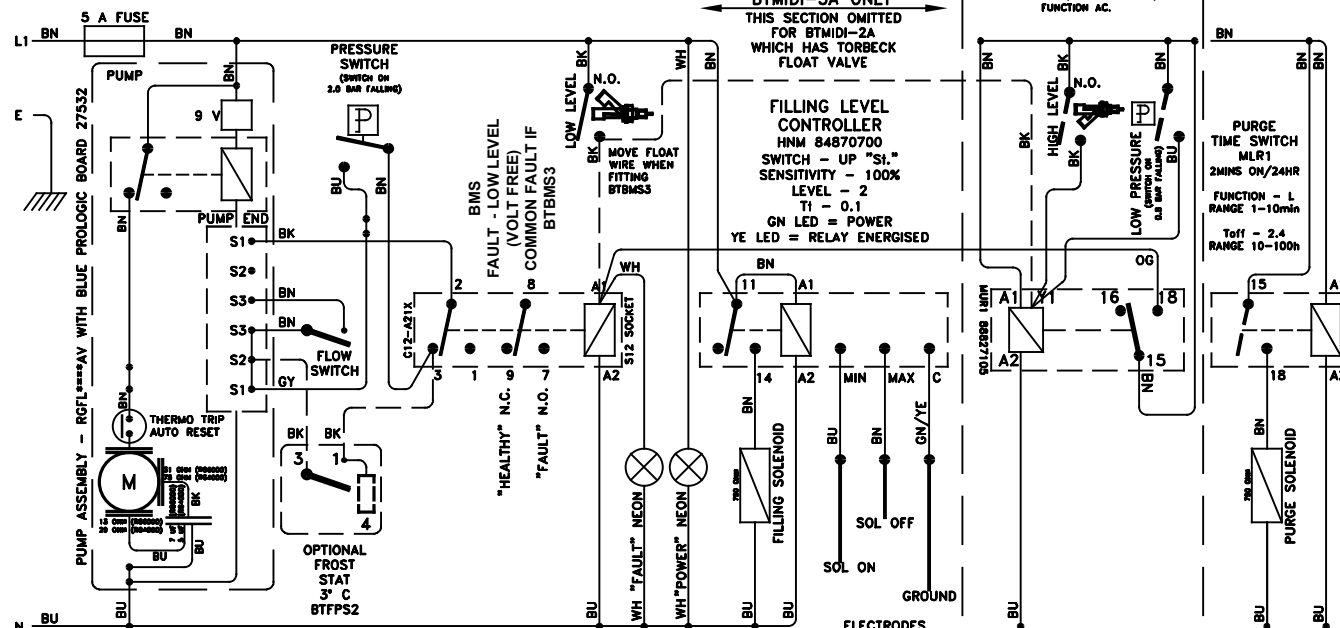


DATE _____
TESTED BY _____

SUPPLY VOLTAGE - 230 V
SUPPLY FUSE - 5 A

POWER P1 -
BTMIDI-3A - 550 W
BTMIDI-2A - 350 W



WIRING DIAGRAM - BTMIDI-3A, BTMIDI-2A

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AM143Q 10/08/20

OPERATION

CISTERN FILLING IS VIA FLOAT VALVE (MODELS BTMIDI-1 & 2A); WHILST MODEL BTMIDI-3A USES A NORMALLY CLOSED SOLENOID VALVE CONTROLLED BY A LEVEL CONTROLLER. THE YELLOW RELAY ENERGISED LED ILLUMINATES WHEN THE SOLENOID IS POWERED. THE SOLENOID OPENS ONCE THE WATER HAS DROPPED BELOW THE "SOL ON" ELECTRODE AND CLOSSES ONCE THE "SOL OFF" ELECTRODE IS SUBMERGED.

THE PUMP IS CONTROLLED BY A PRESSURE SWITCH, FLOW SWITCH & LOW LEVEL FLOAT SWITCH. IF THE LOW LEVEL SWITCH CLOSSES DUE TO LOW LEVEL, THE PUMP WILL NOT START. IF THE PUMP IS RUNNING WHEN LOW LEVEL SWITCH CLOSSES, THE PUMP CONTINUES TO RUN WHILST THE FLOW SWITCH IS CLOSED. ONCE FLOW CEASES, THE PUMP STOPS. THE PUMP RESTARTS ONCE THE LOW LEVEL SWITCH IS OPEN AND THE PRESSURE SWITCH IS CLOSED. ONCE THE PRESSURE VESSEL IS RECHARGED, THE PRESSURE SWITCH OPENS AND THE FLOW SWITCH CONTINUES POWERING THE PUMP UNTIL FLOW CEASES. THE PUMP CIRCUIT BOARD PROVIDES FURTHER DRY RUNNING/SEIZED PUMP PROTECTION BY MONITORING THE FLOW SWITCH. IF THE FLOW SWITCH FAILS TO CLOSE AFTER 1 MINUTE OF POWERING THE PUMP, POWER IS CUT FOR 5 MINUTES. IF AFTER TWO MORE 1 ON/5 OFF MINUTE CYCLES NO FLOW IS DETECTED, POWER TO THE PUMP IS SUSPENDED INDEFINITELY. ONCE PROBLEM RECTIFIED, SWITCHING MAINS POWER OFF FOR 10 SECONDS MIN & THEN BACK ON RESETS THE PUMP SYSTEM.

OPTIONS -

BTBMS3 - ADDITIONAL PRESSURE DETECTING SWITCH, HIGH LEVEL FLOAT SWITCH AND TIME DELAY RELAY WITH VOLT FREE CONTACTS.

BT-OP2 - PURGE OPTION. TO REDUCE RISK OF LEGIONELLA, A TIME SWITCH OPENS A PURGE SOLENOID FOR 2 MINUTES AT 13:00 EVERY 24 HOURS. THE RESULTING PRESSURE DROP WILL CAUSE THE PUMP TO RUN THEREBY PROVIDING DAILY EXERCISE. THE FLOAT VALVE OR INLET SOLENOID WILL ALSO OPERATE DAILY.

BTFPS - FROST PROTECTION SYSTEM (NORMALLY WITH GRP CABINET BTCAB4). THERMOSTAT CLOSSES AT 3° C - RUNS PUMP UNTIL TEMPERATURE WITHIN CABINET OPENS THERMOSTAT.

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TITLE:

BTMIDI-3A, BTMIDI-2A WIRING DIAGRAM

DRN:

RM

CHECKED BY:

DATE:

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MATERIAL: CARD 160 g/sqm

FINISH: LAMINATED

SCALE: 100%

DRG No: AM143Q DATE: 10/08/20