

The diagram illustrates the electrical control system for a water pump, featuring a Siemens S7-1200 PLC and various control components.

Top Section (Main Power and Motor Control):

- 24V1** (3) and **0V1** (4) supply the PLC and control circuit.
- The **SIEMENS S7-1200** PLC (Q3.2) is connected to the motor (M) and the **KW21** relay.
- The **KW21** relay (A2/A1) controls the motor.
- The **RF 2** terminal block is connected to the PLC and the motor.
- The **RF 2** terminal block includes:
 - 03.7x..** (1, 65, 66, 67) connected to **WS1/3/1 YSTY 40x1**.
 - 03.8x..** (1, 2, 23) connected to **WS1/3/3 YSTY 25x1**.
 - 01.7x..** (1, 65, 66, 67) connected to **3, 319, 327, 328**.
 - 01.8x..** (1, 2, 23) connected to **1, 2, 322**.

Middle Section (Manual/Automatic Control):

- 24V2** (5) and **0V2** (6) supply the control circuit.
- The **S21** selector switch (RĘCZ. 0, AUT) controls the pump.
- The **KW21** relay (11, 14) controls the pump.
- The **KT21** relay (A2/A1) controls the pump.
- The **KA21** relay (A2/A1) controls the pump.

Bottom Section (Protection and Status Monitoring):

- The **KT21** relay (A2/A1) controls the pump.
- The **KA21** relay (A2/A1) controls the pump.
- The **KT21** relay (A2/A1) controls the pump.
- The **KA21** relay (A2/A1) controls the pump.
- The **KT21** relay (A2/A1) controls the pump.
- The **KA21** relay (A2/A1) controls the pump.

Terminal Block Details:

- RF 2** terminal block:
 - 03.7x..** (1, 65, 66, 67) connected to **WS1/3/1 YSTY 40x1**.
 - 03.8x..** (1, 2, 23) connected to **WS1/3/3 YSTY 25x1**.
 - 01.7x..** (1, 65, 66, 67) connected to **3, 319, 327, 328**.
 - 01.8x..** (1, 2, 23) connected to **1, 2, 322**.
- RF 2** terminal block:
 - 03.7x..** (1, 65, 66, 67) connected to **WS1/3/1 YSTY 40x1**.
 - 03.8x..** (1, 2, 23) connected to **WS1/3/3 YSTY 25x1**.
 - 01.7x..** (1, 65, 66, 67) connected to **3, 319, 327, 328**.
 - 01.8x..** (1, 2, 23) connected to **1, 2, 322**.

WYKONAWCA:				INWESTOR:	
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				OBIĘKT OCZYSZCZALNIA ŚCIEKÓW W KRZESZYCACH działka nr 611/2 (obręb 0010 Krzeszyce)	
BRANŻA:				TYTUŁ RYSUNKU:	
ELEKTRYCZNA				Sterowanie pracą pompy PO24	
OPRACOWAŁ:	mgr inż. Wojciech Staszak			NR RYSUNKU:	
PROJEKTOWAŁ:	mgr inż. Grzegorz Witołowski	Nr. upr. 70/Pw/92		RT/25	