```
1
       PROGRAM PLC PRG
2
       VAR
3
           power AT %IX0.1: BOOL;
 4
           openSensor AT %IX0.2: BOOL;
 5
           closeSensor AT %IX0.3: BOOL;
 6
           emergencyStop AT %IX0.4: BOOL;
7
           motorUp AT %QX0.1: BOOL;
8
          motorDown AT %QX0.2: BOOL;
9
           up AT %IX0.5: BOOL;
10
           down AT %IX0.6: BOOL;
11
           stop AT %IX0.7: BOOL;
12
13
           SR 0 : SR ;
14
           SR 1 : SR;
15
16
           set: BOOL;
17
           reset : BOOL ;
18
       END_VAR
19
```

```
1
        stop
                                                                                                               reset
     emergencyStop
        power
2
                               emergencyStop
        power
                     stop
                                                                                                                set
                                                           SR_0
                      up
                                  down
                                           openSensor
                                                            SR
                                                                                                             motorUp
         set
                                                        SET1
        reset
                                                        RESET
      motorDown
     openSensor
```

