

| Totally Integ Automation | grated Portal | | | | | | | | | |
|-----------------------------|-----------------------------------|-----------------|--------|------------|----|---------------|-------------|-----|--|--|
| Program blocks | | | | | | | | | | |
| Main [OB1 |] | | | | | | | | | |
| Main Propertie | S | | | | | | | | | |
| General | | | | | | | | | | |
| Name | Main | Number | 1 | Type | OB | | Language | LAD | | |
| Numbering | Automatic | | | | | | | | | |
| Information | | | | 1 0 | | | _ •• | | | |
| Title | "Main Program Sweep (Cy- cle)" | Author | | Comment | | | Family | | | |
| Version | 0.1 | User-defined ID | | | | | | | | |
| Name | | | Data t | vne | | Default value | | | | |
| ▼ Input | | | Duta t | ype | | Delaute value | | | | |
| Initial_Ca | .II | | Bool | | | | | | | |
| Remanen | | | Bool | | | | | | | |
| ▼ Temp | | | | | | | | | | |
| temperat | :ura | | Real | | | | | | | |
| Constant | | | | | | | | | | |
| Network 1: | | | | | | | | | | |
| "Stany" — EN ENO | | | | | | | | | | |
| Network 2: | | | | | | | | | | |
| | | | | | | | | | | |

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|---|---|-----------------------------|---|--|
| | | %FC24 "Wyjścia" — EN ENO | • | |
| | Network 3: | | | |
| | | %FC26 "Obliczenia" — EN ENO | 1 | |
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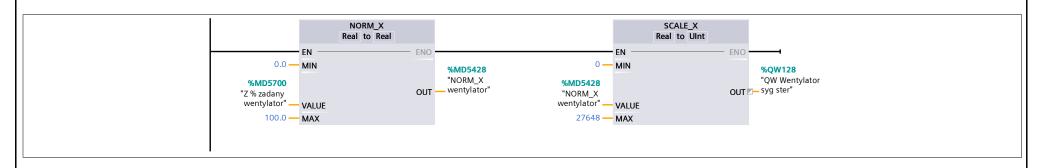
Obliczenia WENTYLATOR [FC1]

| Obliczenia WENTYLATOR Properties | | | | | | | | | | | |
|----------------------------------|--|-----------------|--|---------|---|--------|--|--|--|--|--|
| General | General | | | | | | | | | | |
| Name | Name Obliczenia WENTYLATOR Number 1 Type FC Language LAD | | | | | | | | | | |
| Numbering | umbering Automatic | | | | | | | | | | |
| Information | | | | | | | | | | | |
| Title | | Author | | Comment | | Family | | | | | |
| Version | 0.1 | User-defined ID | | | - | | | | | | |

| Name | Data type | Default value |
|-----------------------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Obliczenia WENTYLATOR | Void | |

Network 1:

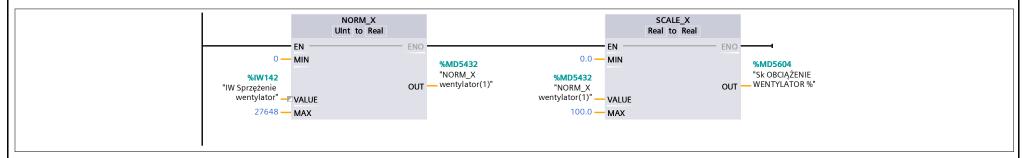
wentylator syg sterowania



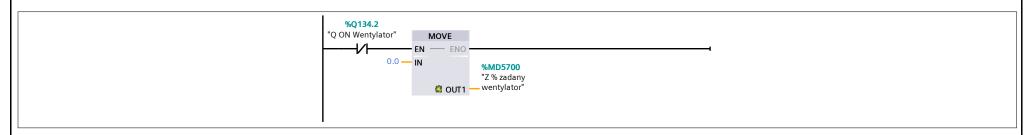
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| Automation | Portal |

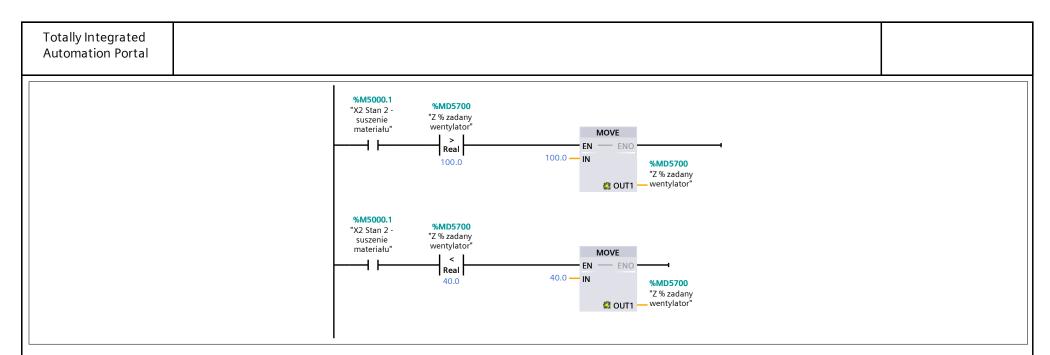
Network 2: Odczyt wejścia analogowego

Normalizuję wartość na wejściu rozszerzenia (od 0 do 27648), a następnie przedstawiam ją jako wartość od 0-100 (jako procent obciążenia wentylatora)

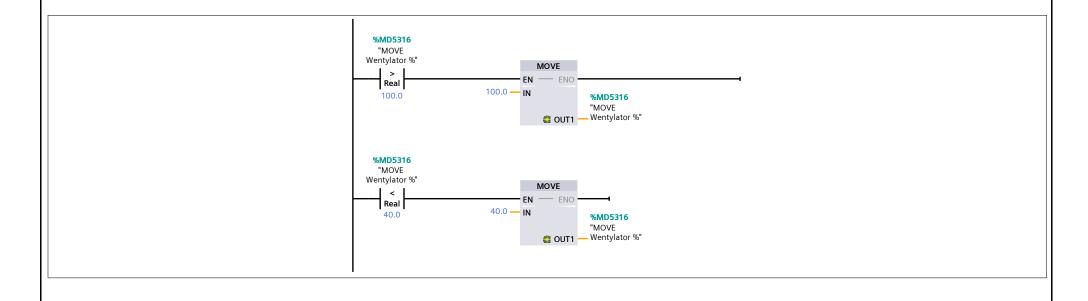


Network 3:





Network 5: Ograniczenia wentylatora

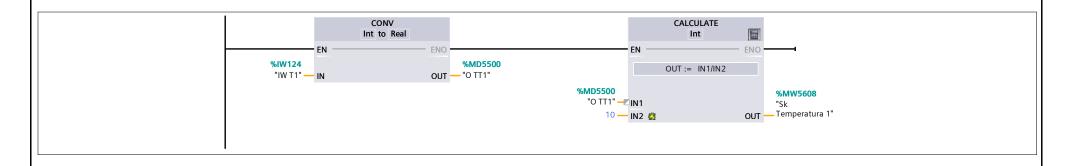


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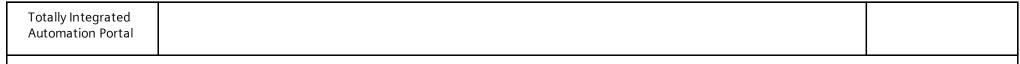
Obliczenia Odczyt temperatury [FC2]

| Obliczenia Odczyt temperatury Properties | | | | | | | | | | |
|--|----------------------|-----------------|--|--|--|--|---|--|--|--|
| General | | | | | | | | | | |
| Name Obliczenia Odczyt tempera- tury PC PC Language LAD | | | | | | | | | | |
| Numbering | Automatic | | | | | | • | | | |
| Information | Information | | | | | | | | | |
| Title | Title Comment Family | | | | | | | | | |
| Version | 0.1 | User-defined ID | | | | | | | | |

| Name | Data type | Default value |
|-------------------------------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Obliczenia Odczyt temperatury | Void | |



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| Network 2: | | |
| | CONV Int to Real EN ENO %IW126 "IW T2"— IN OUT — "O TT2" | CALCULATE Int EN ENO OUT := IN1/IN2 *MD5504 "O TT2" - IN1 10 - IN2 OUT OUT Temperatura 2" |
| Network 3: | · | |
| | CONV Int to Real EN ENO %IW128 "IW T3" IN OUT "O TT3" | CALCULATE Int EN ENO OUT := IN1/IN2 *MMD5508 "O TT3" — IN1 10 — IN2 OUT — Temperatura 3" |
| Network 4: | · | |
| | CONV Int to Real EN ENO *MD551: "IW T4" IN OUT "O TT4" | CALCULATE Int EN ENO OUT := IN1/IN2 *MMD5512 "O TT4" — IN1 10 — IN2 OUT Temperatura 4" |



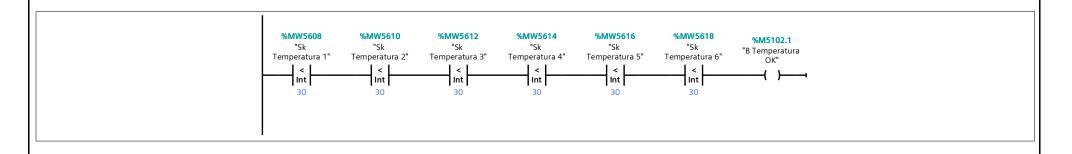
Network 5:

```
CONV
                                                                                    CALCULATE
                   Int to Real
                                                                                       Int
                                 ENO
                                                                                                   ENO -
%IW132
                                        %MD5516
                                                                                  OUT := IN1/IN2
"IW T5" — IN
                                 OUT - "O TT5"
                                                                %MD5516
                                                                                                         %MW5616
                                                                 "O TT5" -ℤ IN1
                                                                                                  OUT — Temperatura 5"
                                                                      10 — IN2 📛
```

Network 6:

```
CONV
                                                                                     CALCULATE
                   Int to Real
                                                                                        Int
         EN
                                 ENO .
                                                                            - EN
                                                                                                    ENO -
%IW134
                                        %MD5520
                                                                                   OUT := IN1/IN2
                                 OUT — "O TT6"
"IW T6" — IN
                                                                 %MD5520
                                                                                                           %MW5618
                                                                  "O TT6" —☑ IN1
                                                                                                          _Temperatura 6"
                                                                       10 — IN2 🎎
```

Network 7: Sprawdzenie temperatury



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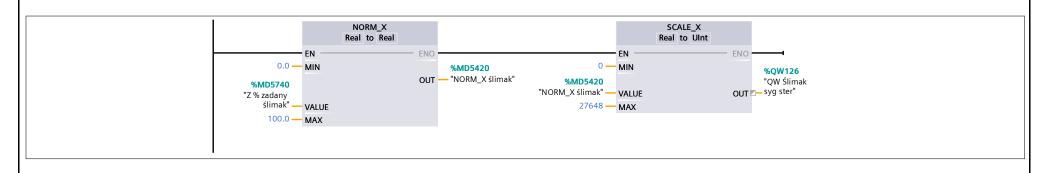
Obliczenia ŚLIMAK FALOWNIK [FC3]

| Obliczenia ŚLIMAK FALOWNIK Properties | | | | | | | | | | |
|---|----------------------|-----------------|--|--|--|--|-----|--|--|--|
| General | | | | | | | | | | |
| Name Obliczenia ŚLIMAK FALOW- Number 3 Type FC Language LAD | | | | | | | LAD | | | |
| Numbering | Automatic | | | | | | | | | |
| Information | Information | | | | | | | | | |
| Title | Title Comment Family | | | | | | | | | |
| Version | 0.1 | User-defined ID | | | | | | | | |

| Name | Data type | Default value |
|----------------------------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Obliczenia ŚLIMAK FALOWNIK | Void | |

Network 1:

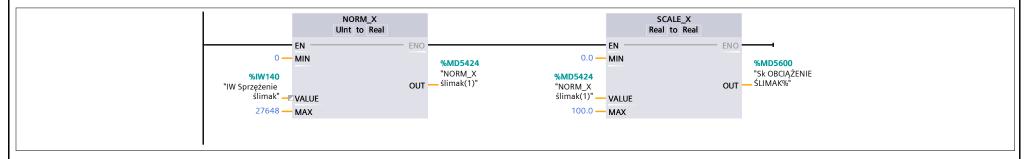
wentylator syg sterowania



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Network 2: Odczyt wejścia analogowego

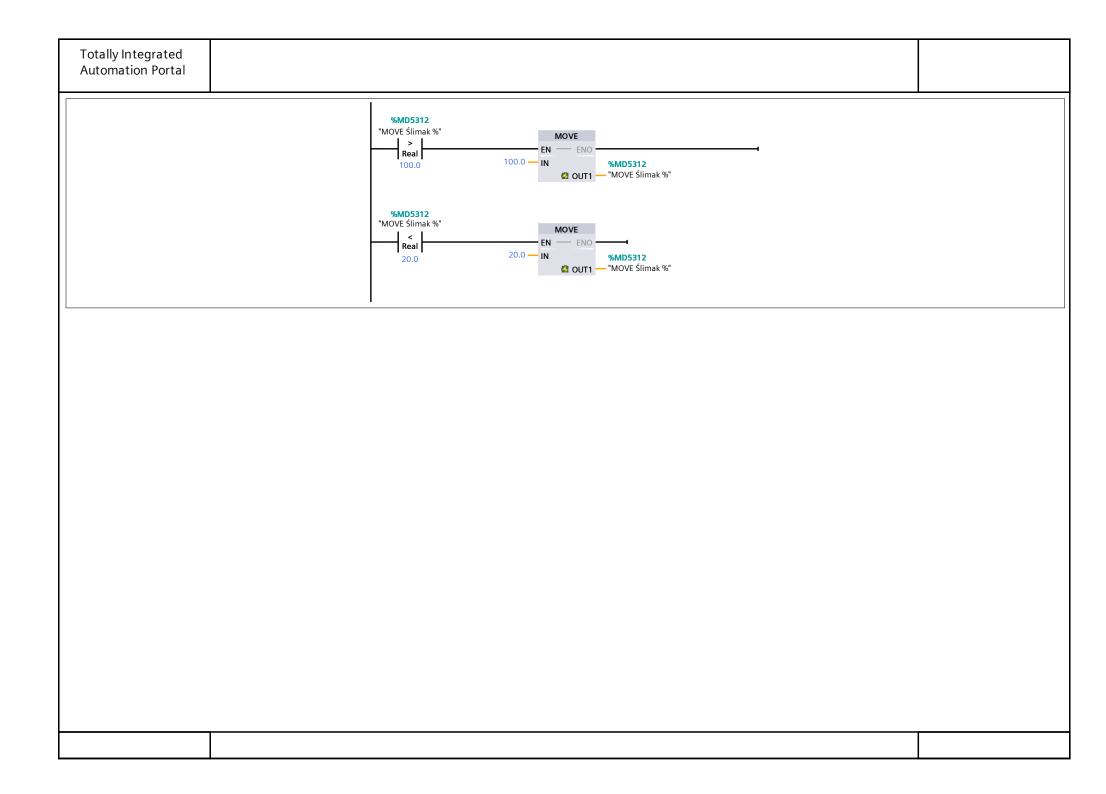
Normalizuję wartość na wejściu rozszerzenia (od 0 do 27648), a następnie przedstawiam ją jako wartość od 0-100 (jako procent obciążenia wentylatora)



Network 3:

Jeśli ślimak jest włączony to wartość zadana znajduje się w przedziale <20;100>

```
%MD5740
                  "Z % zadany
 %M5100.2
                     ślimak"
"B ON ślimak M"
                                                       MOVE
                      Real
                                            100.0 — IN
                     100.0
                                                                   %MD5740
                                                                  "Z % zadany
                                                        OUT1 — ślimak"
                   %M5000.1
                                    %MD5740
                  "X2 Stan 2 -
                                   "Z % zadany
  %M5100.2
                   suszenie
                                     ślimak"
"B ON ślimak M"
                   materiału"
                                                                        MOVE
                                                                     EN.
                                                                           - ENO
                                      Real
                                                              20.0 — IN
                                       20.0
                                                                                    %MD5740
                                                                                    "Z % zadany
                                                                          OUT1 — ślimak"
```



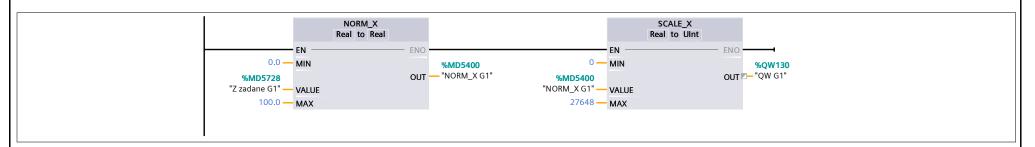
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Obliczenia GRZAŁKI [FC5]

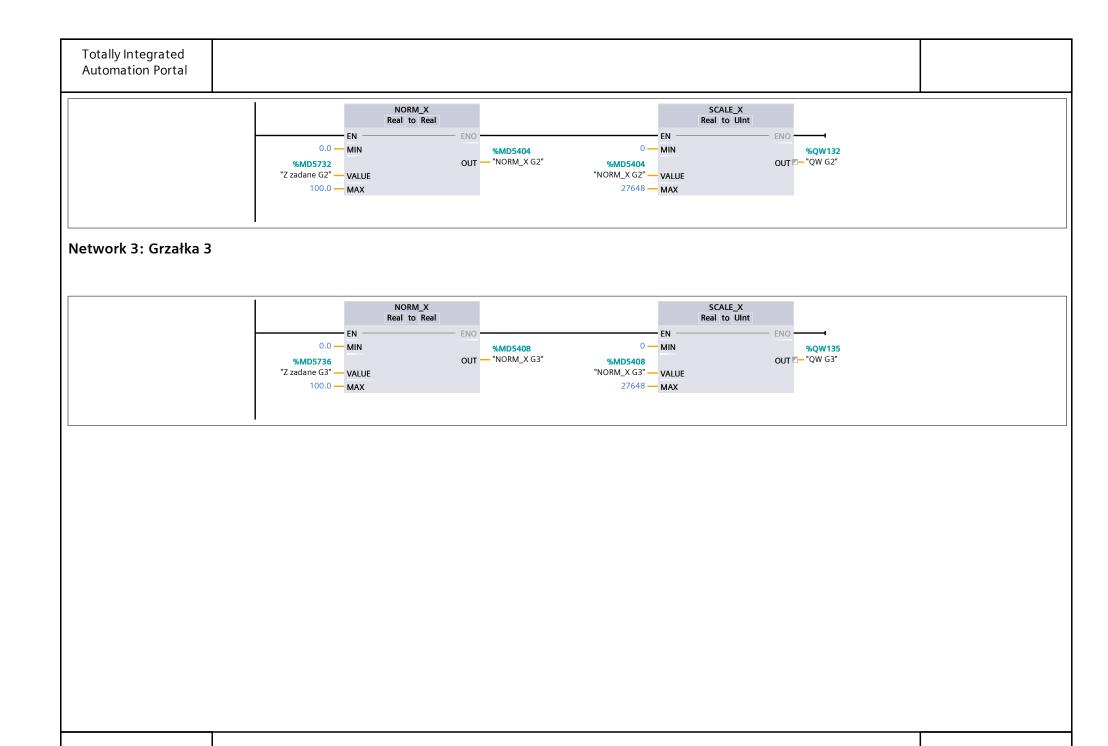
| Obliczenia GR | ZAŁKI Properties | | | | | | |
|---------------|--|-----------------|---|---------|----|----------|-----|
| General | General Control of the Control of th | | | | | | |
| Name | Obliczenia GRZAŁKI | Number | 5 | Туре | FC | Language | LAD |
| Numbering | ing Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID |) | | : | | |

| Name | Data type | Default value |
|--------------------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Obliczenia GRZAŁKI | Void | |

Network 1: Grzałka 1



Network 2: Grzałka 2



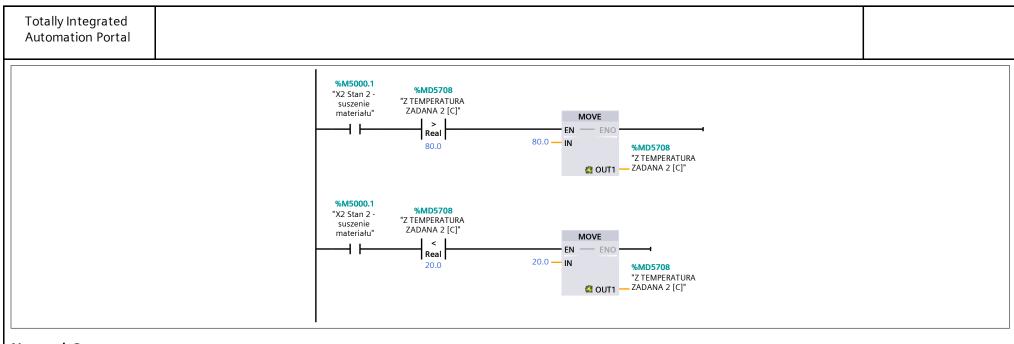
Cyclic interrupt PID 2 [OB30]

| Cyclic interrup | t PID 2 Properties | | | | | | |
|-----------------|------------------------|--------|----|---------|----|----------|-----|
| General | General | | | | | | |
| Name | Cyclic interrupt PID 2 | Number | 30 | Туре | OB | Language | LAD |
| Numbering | ng Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | | | | | | | - |

| | Data type | Default value |
|--------------|-----------|---------------|
| ▼ Input | | |
| Initial_Call | Bool | |
| Event_Count | Int | |
| Temp | | |
| Constant | | |

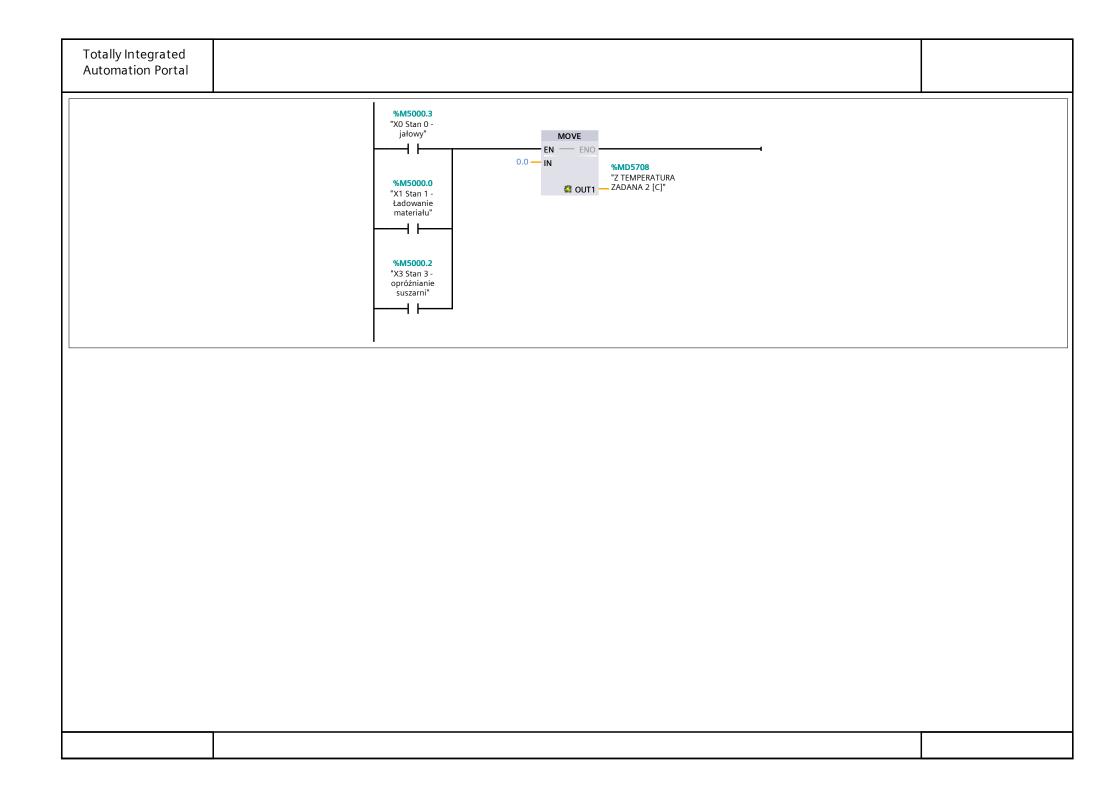
%MD5732 %MD5708 OutputHeat — "Z zadane G2" "Z TEMPERATURA ZADANA 2 [C]" — Setpoint OutputCool — 0.0 OutputHeat_ %MW5610 PER — 0 OutputCool_ Temperatura 2" – Input **PER** — 0 0 — Input_PER OutputHeat_ PWM → false OutputCool_ PWM — false State — 0 Error → false ErrorBits — 16#0 %M5100.6 "B PID 2 ON" MOVE — EN — ENO -0.0 — IN %MD5732 😃 OUT1 — "Z zadane G2"

Network 2:

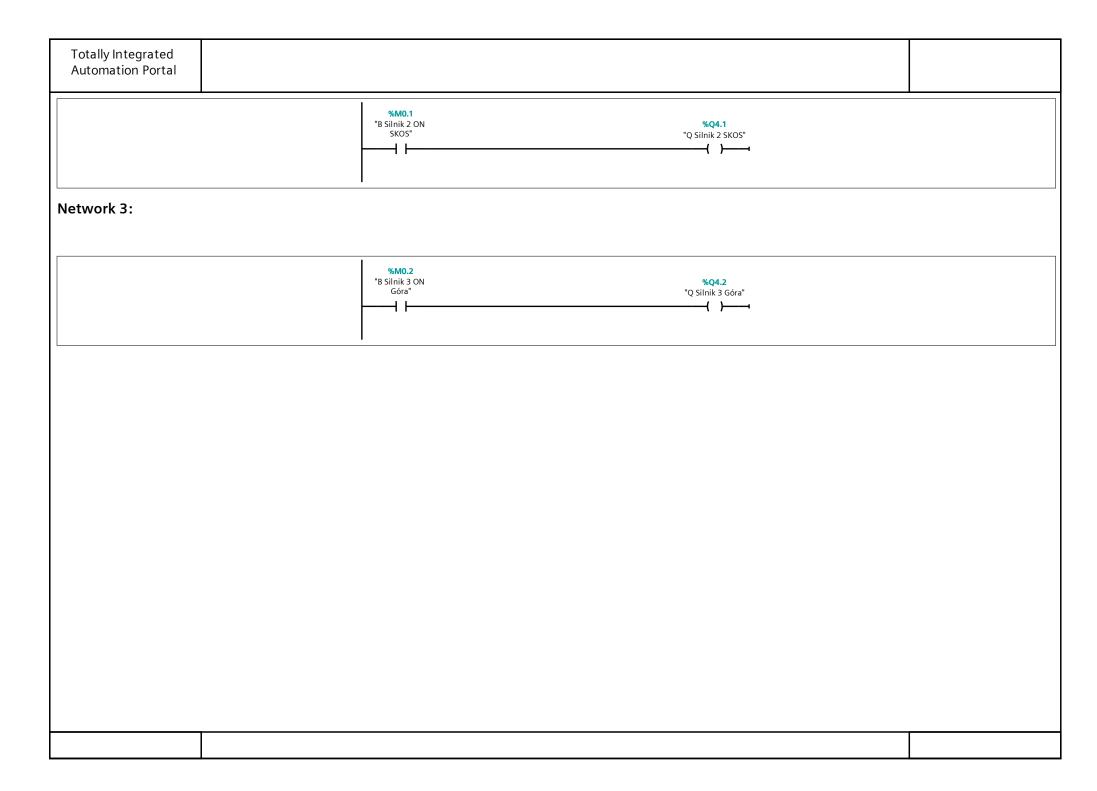


Network 3:

```
%MD5304
"MOVE T2"
                            MOVE
| > |
                         - EN --- ENO -
 Real
                    80.0 — IN
                              %MD5304
 80.0
                             and out1 — "MOVE T2"
%MD5304
"MOVE T2"
                            MOVE
 | < |
                         EN --- ENO ----
 Real
                    20.0 — IN %MD5304
 20.0
                             a out1 — "MOVE T2"
```



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| Program Wyjścia Sil | blocks ników [FC6] | | | | | | | | |
| Wyjścia Silnikó | w Properties | | | | | | | | |
| General | Willoperaes | | | | | | | | |
| Name | Wyjścia Silników | Number | 6 | | Туре | FC | | Language | LAD |
| Numbering | Automatic | | | | -71 | | | | <u></u> |
| Information | | | | | | | | | |
| Title | | Author | | | Comment | | | Family | |
| Version | 0.1 | User-defined ID | | | | | | | |
| Name | | | | Data typ | • | | Default value | | |
| Input | | | | рата тур | e | | Delauit value | | |
| Output | | | | | | | | | |
| InOut | | | | | | | | | |
| - | | | | | | | | | |
| Temp | | | | | | | | | |
| Constant Return | | | | | | | | | |
| | | | | | | | | | |
| Wyjścia S | ilników | | | Void | | | | | |
| Network 1: | | | | | | | | | |
| | | "B Silr | M0.0 nik 1 ON pełek" | | | | %Q4.0 Silnik 1 ubetek" -()——- | | |
| Network 2: | | | | | | | | | |



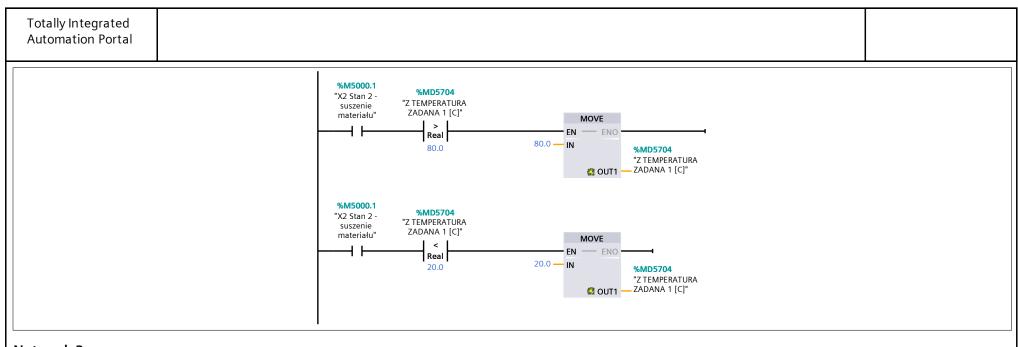
Cyclic interrupt PID 1 [OB31]

| Cyclic interrupt | t PID 1 Properties | | | | | | |
|------------------|------------------------|-----------------|----|---------|----|----------|-----|
| General | | | | | | | |
| Name | Cyclic interrupt PID 1 | Number | 31 | Туре | ОВ | Language | LAD |
| Numbering | pering Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | • |

| Name | Data type | Default value |
|----------------|-----------|---------------|
| ▼ Input | | |
| Initial_Call | Bool | |
| Event_Count | Int | |
| Temp | | |
| Constant | | |

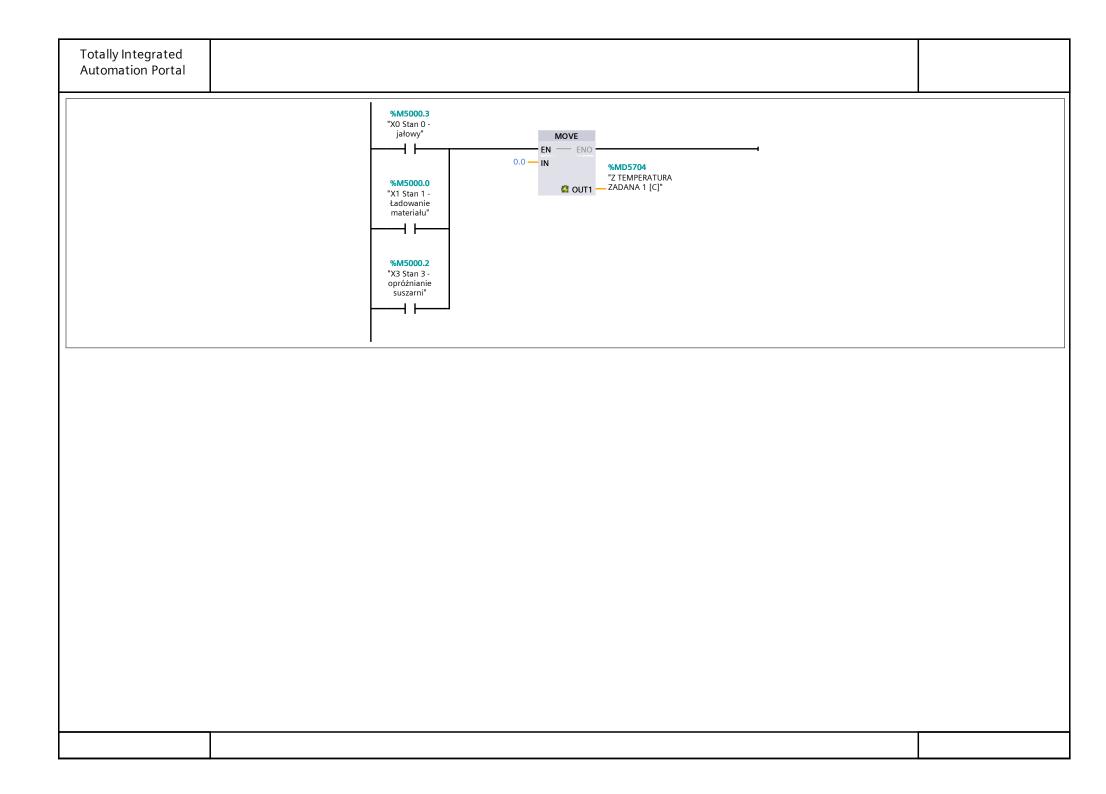
> %MD5728 %MD5704 OutputHeat — "Z zadane G1" "Z TEMPERATURA ZADANA 1 [C]" — Setpoint OutputCool — 0.0 OutputHeat_ %MW5608 PER — 0 OutputCool_ Temperatura 1" – Input **PER** — 0 0 — Input_PER OutputHeat_ PWM → false OutputCool_ PWM — false State — 0 Error → false ErrorBits — 16#0 %M5100.5 "B PID 1 ON" MOVE — EN — ENO -0.0 — IN %MD5728 😃 OUT1 — "Z zadane G1"

Network 2:



Network 3:

```
%MD5300
"MOVE T1"
                            MOVE
>
                         - EN --- ENO -
Real
                    80.0 — IN
 80.0
                                     %MD5300
                             a out1 — "MOVE T1"
%MD5300
"MOVE T1"
                            MOVE
 | < |
                         EN - ENO -
 Real
                    20.0 — IN %MD5300
 20.0
                             and out 1 — "MOVE T1"
```



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Cyclic interrupt PID 3 [OB32]

| Cyclic interrupt PID 3 Properties | | | | | | | |
|-----------------------------------|------------------------|-----------------|----|---------|----|----------|-----|
| General | | | | | | | |
| Name | Cyclic interrupt PID 3 | Number | 32 | Туре | ОВ | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| | Data type | Default value |
|--------------|-----------|---------------|
| ▼ Input | | |
| Initial_Call | Bool | |
| Event_Count | Int | |
| Temp | | |
| Constant | | |

%MD5736

OutputHeat — "Z zadane G3"

OutputCool — 0.0 OutputHeat_

OutputHeat_

OutputCool_

PER — 0
OutputCool_

PER — 0

PWM → false

PWM — false

State — 0

From — false FrorBits — 16#0

M5100.7

PID 3 ON"

EN ENO

0.0 IN

MD5736

OUT1

Z zadane G3"

0 — Input_PER

%MD5712

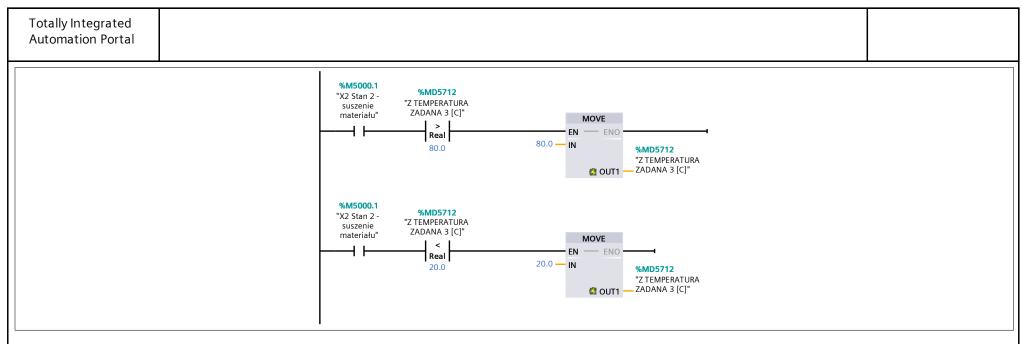
%MW5612

Temperatura 3" – Input

ZADANA 3 [C]" — Setpoint

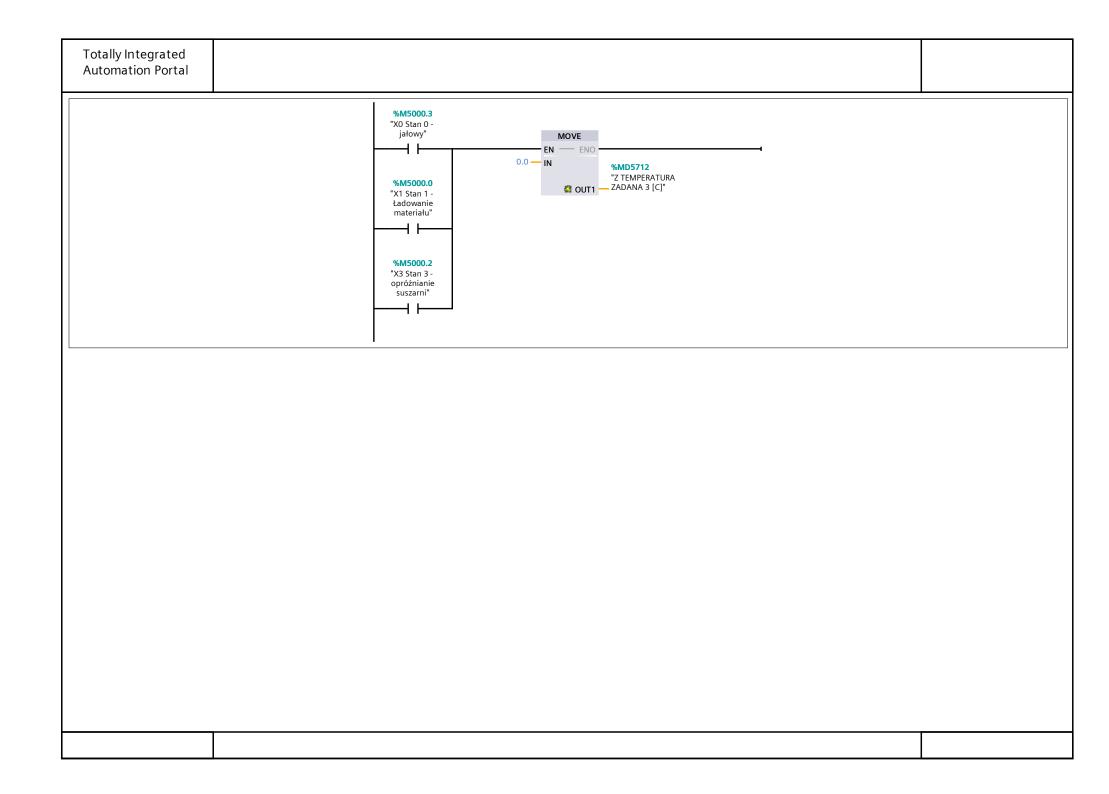
"Z TEMPERATURA

Network 2:



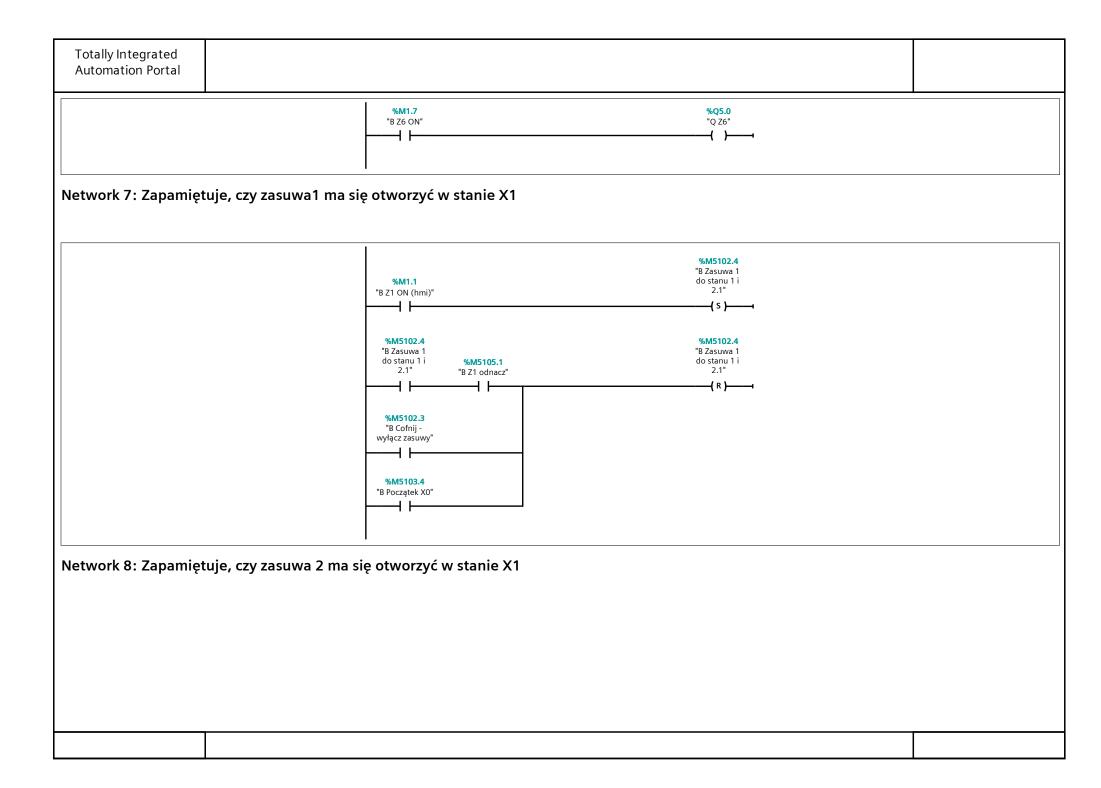
Network 3:

```
%MD5308
"MOVE T3"
                            MOVE
| > |
                         - EN --- ENO -
 Real
                    80.0 — IN
 80.0
                                     %MD5308
                             a out1 — "Move T3"
%MD5308
"MOVE T3"
                            MOVE
 | < |
                         EN - ENO -
 Real
                    20.0 — IN %MD5308
 20.0
                             a out1 — "MOVE T3"
```



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|-----------------------------|------------------|-----------------|--------------|----------|---------|----|---------------------|----------|-----|
| Program | blocks | | | | | | | | · |
| Program | DIOCKS | | | | | | | | |
| Wyjścia Za | suw [FC4] | | | | | | | | |
| Wyjścia Zasuw | Properties | | | | | | | | |
| General | <u> </u> | | | | | | | | |
| Name | Wyjścia Zasuw | Number | 4 | | Туре | FC | | Language | LAD |
| Numbering | Automatic | | | | | | | | ' |
| Information | | | | | | | | | |
| Title | | Author | | | Comment | | | Family | |
| Version | 0.1 | User-defined ID | | | | | | | |
| Name | | | | Data typ | ne . | | Default value | | |
| Input | | | | Data typ | | | Delaute value | | |
| Output | | | | | | | | | |
| InOut | | | | | | | | | |
| Temp | | | | | | | | | |
| Constant | | | | | | | | | |
| ▼ Return | | | | | | | | | |
| Wyjścia 2 | 7251111 | | | Void | | | | | |
| vvyjscia z | Lasuvv | | | VOIG | | | | | |
| Network 1: | | | | | | | | | |
| | | | | | | | | | |
| | | | <i>I</i> 1.0 | | | | %Q4.3 | | |
| | | "B Z | 1 ON" | | | | %Q4.3 "Q Z1" | | |
| | | | | | | | → → | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Network 2: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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|---|--------------------|---|--|
| | %M1.2 "B Z2 ON" | %Q4.4 "Q Z2" ———————————————————————————————————— | |
| Network 3: | · | | |
| | %M1.4 "B Z3 ON" | %Q4.5 "Q Z3" | |
| Network 4: | · | | |
| | %M1.5 "B Z4 ON" | %Q4.6 "Q Z4" | |
| Network 5: | | | |
| | %M1.6 "B Z5 ON" | %Q4.7 "Q Z5" | |
| Network 6: | | | |
| | | | |
| | | | |



Totally Integrated **Automation Portal** %M5102.5 "B Zasuwa 2 do stanu 1 i 2.1" %M1.3 "B Z2 ON (hmi)" -(s)-----%M5102.5 %M5102.5 "B Zasuwa 2 do stanu 1 i 2.1" "B Zasuwa 2 do stanu 1 i 2.1" %M5105.2 "B Z2 odznacz" -(R)-----%M5102.3 "B Cofnij wyłącz zasuwy" %M5103.4 "B Początek X0" Network 9: Zapamiętuje, czy zasuwa Z4 ma się otworzyć w X3

Totally Integrated Automation Portal %M5103.2 "B Z4 do X3" %M2.0 "B Z4 ON (hmi)" SR %M2.1 "B Z5 ON (hmi)" %M2.2 "B Z6 ON (hmi)" %M5103.4 "B Początek X0" %M5103.1 "B Reset zasuw 456" Network 10: Zapamiętuje, czy zasuwa Z5 ma się otworzyć w X3

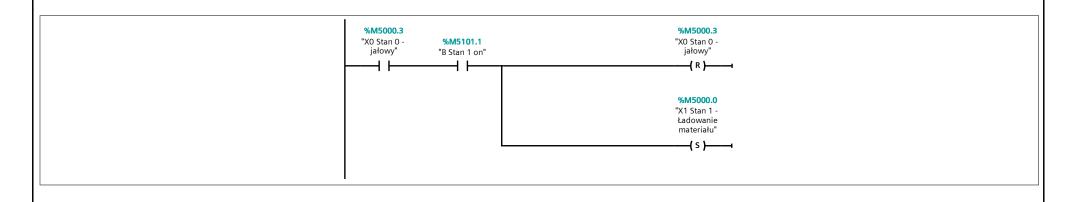
Totally Integrated Automation Portal **%M5103.7** "B Z5 do X3" %M2.1 "B Z5 ON (hmi)" SR %M2.0 "B Z4 ON (hmi)" %M2.2 "B Z6 ON (hmi)" %M5103.4 "B Początek X0" %M5103.1 "B Reset zasuw 456" Network 11: Zapamiętuje, czy zasuwa Z6 ma się otworzyć w X3

Totally Integrated Automation Portal **%M5104.0**"B Z6 do X3" %M2.2 "B Z6 ON (hmi)" SR %M2.0 "B Z4 ON (hmi)" %M2.1 "B Z5 ON (hmi)" %M5103.4 "B Początek X0" %M5103.1 "B Reset zasuw 456"

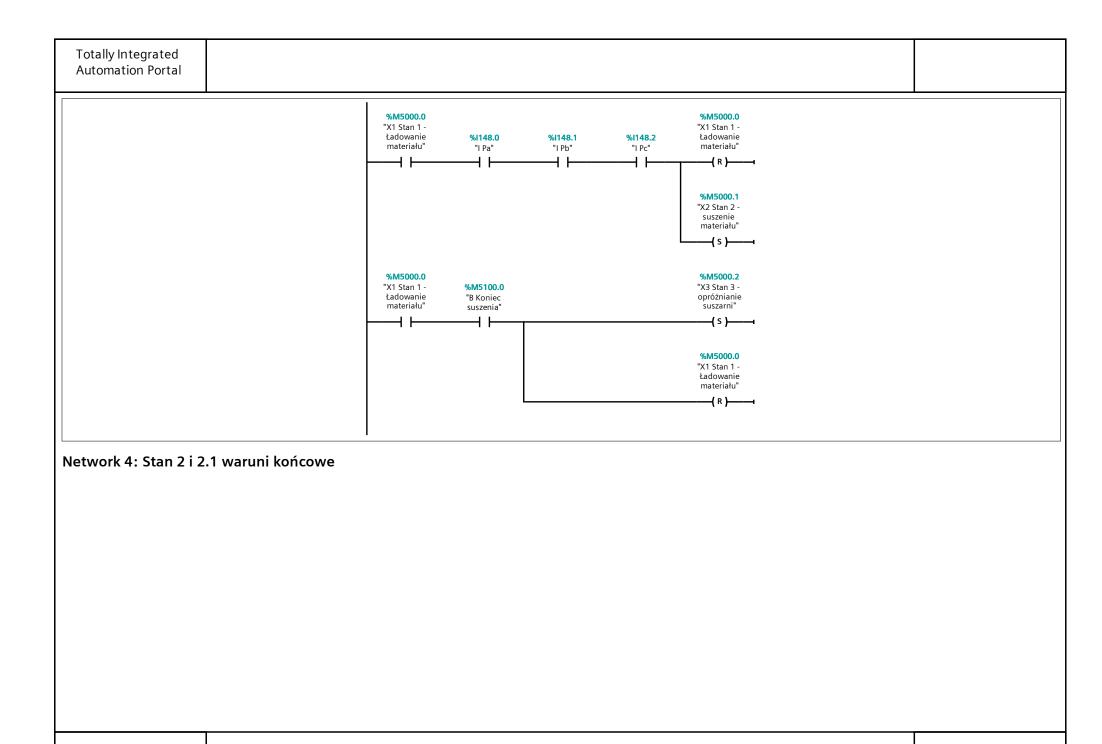
Stany [FC8]

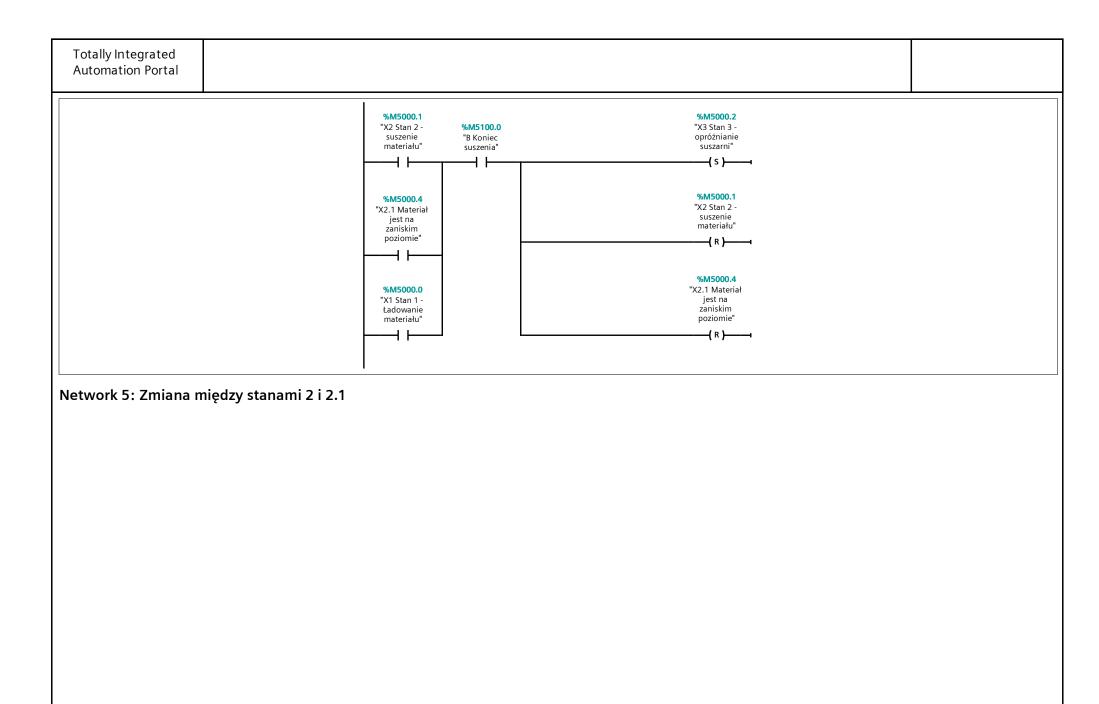
| Stany Properties | | | | | | | |
|------------------|-----------|-----------------|---|---------|----|----------|-----|
| General | | | | | | | |
| Name | Stany | Number | 8 | Туре | FC | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | - | | - |

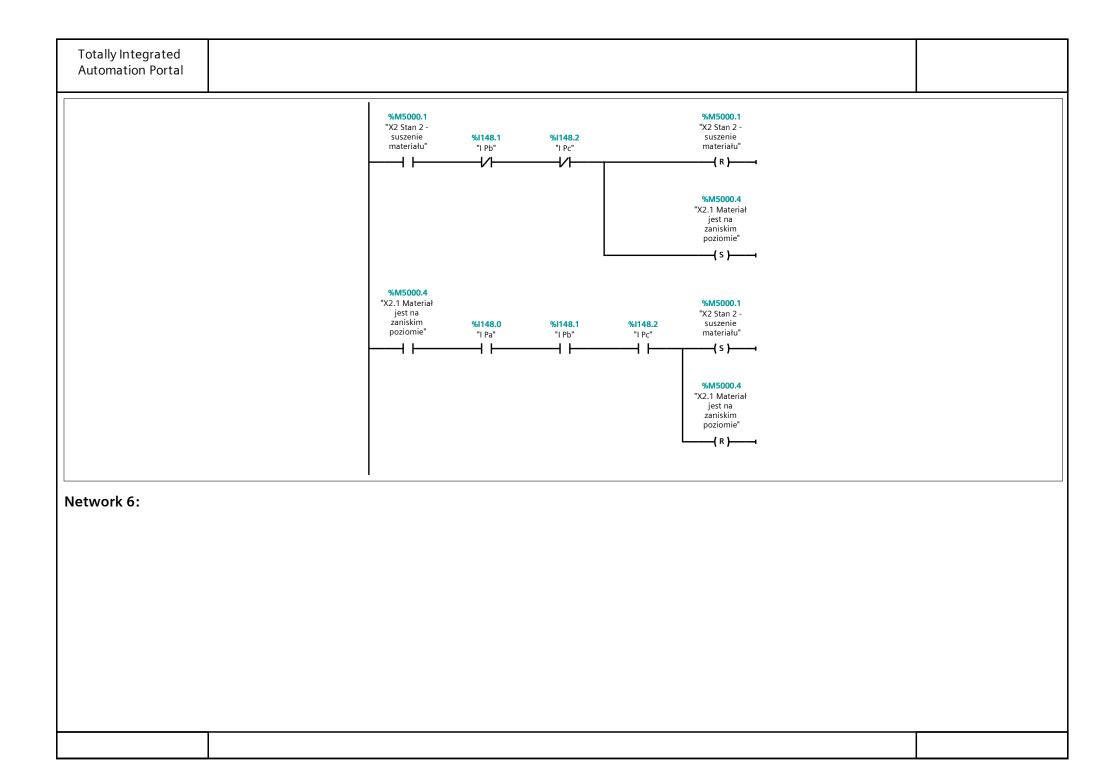
| Name | Data type | Default value |
|----------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Stany | Void | |

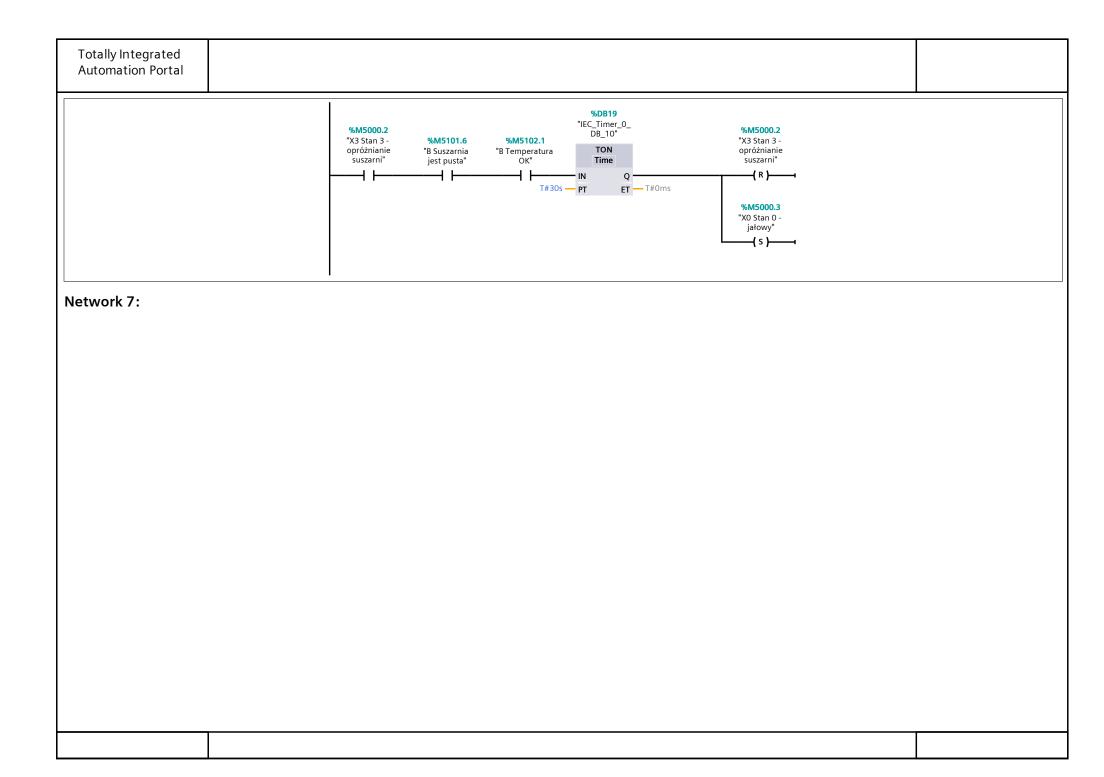


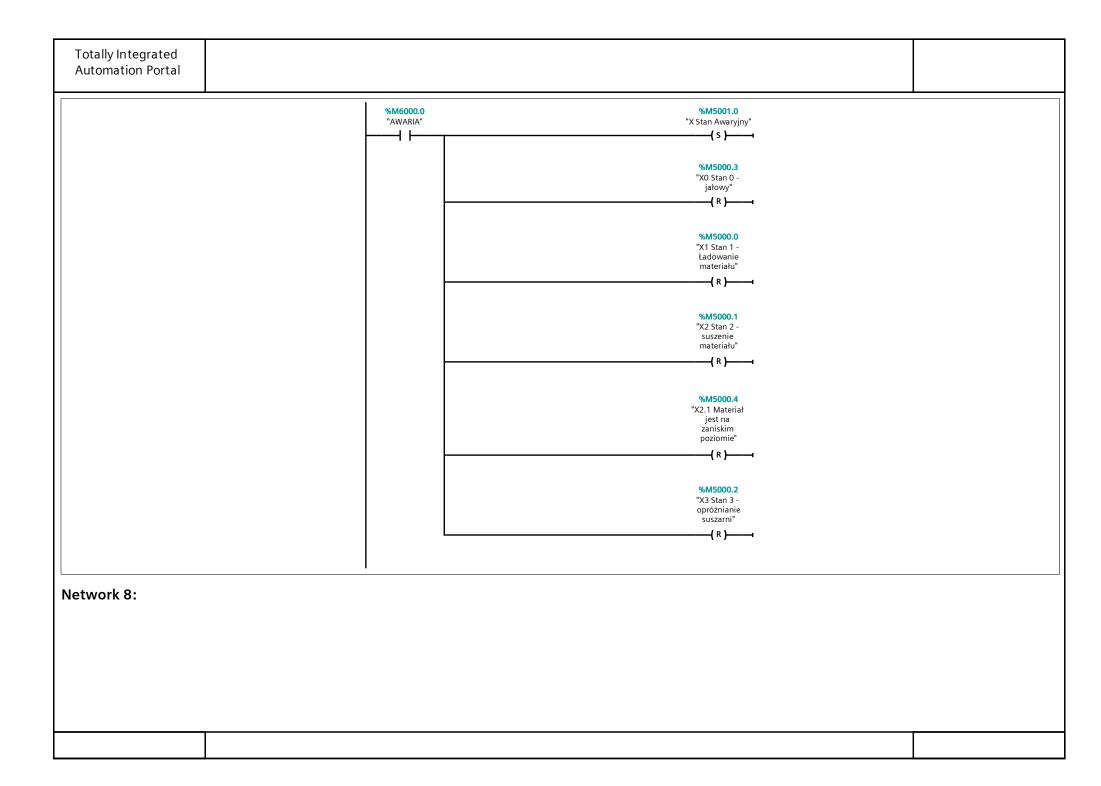
| Totally Integrated Automation Portal | | | |
|---|--|--|---|
| etwork 2: | | | I |
| | %M5000.3 %M1004.1 "X0 Stan 0 - "Włącz stany magazynowe" | %M5000.3 "X0 Stan 0 - | |
| | "Wyłącz stany Magazynowe" magazynowe" | "X0 Stan 0 - jalowy" (5) %M1004.0 "Stany Magazynowe" (R) | |
| etwork 3: | | | |
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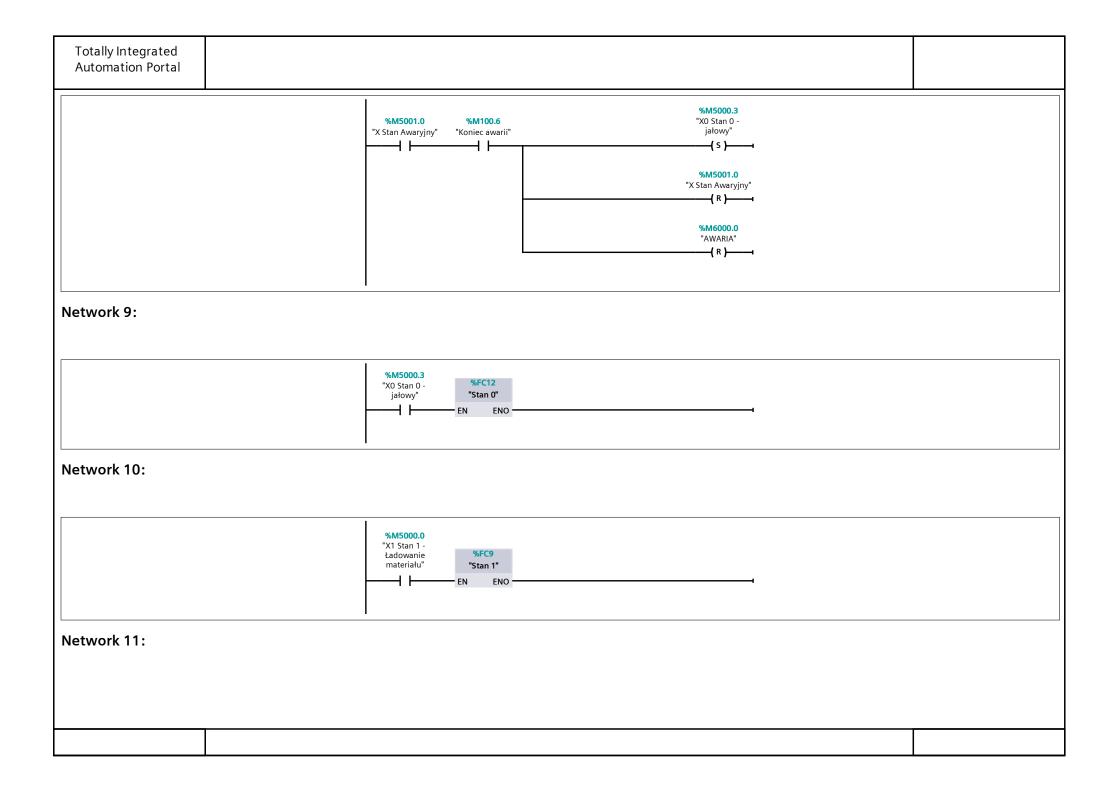


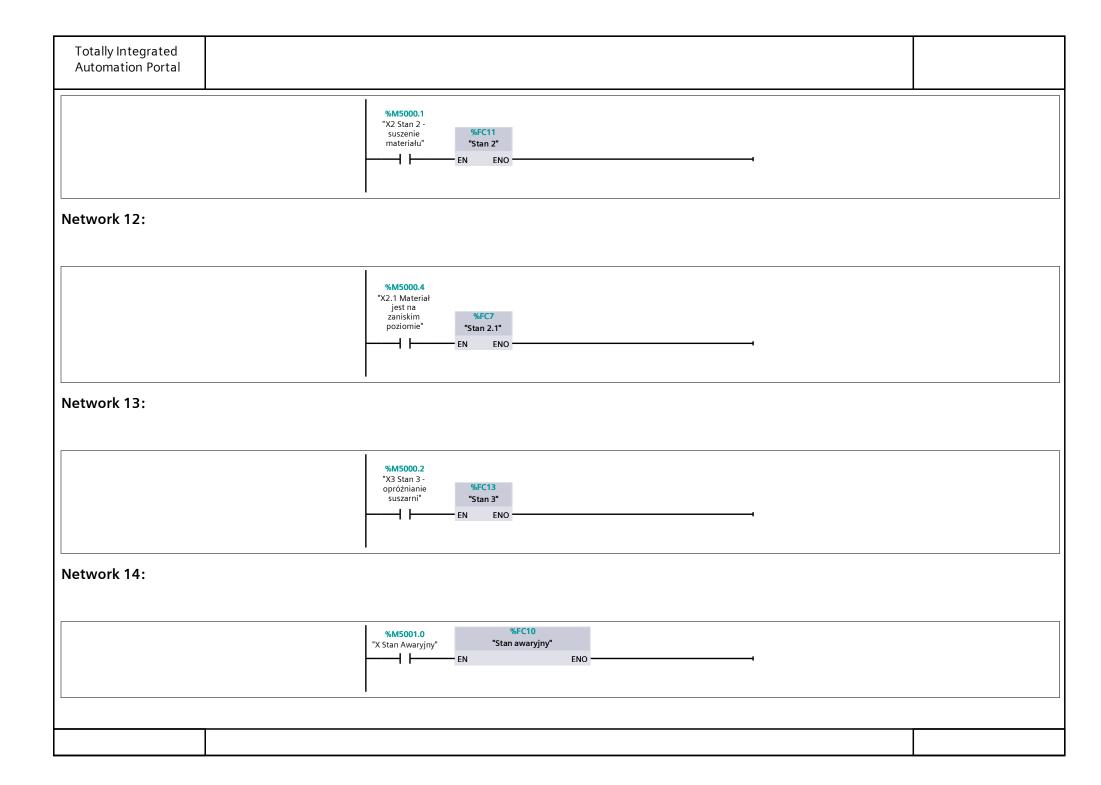












| Totally Integrated Automation Portal | | |
|---|--|--|
| Network 15: | | |
| | *M1004.0 "Stany Magazynowe" EN EN **Stany magazynowania** EN **ENO | |
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| Totally Integrated Automation Portal | |
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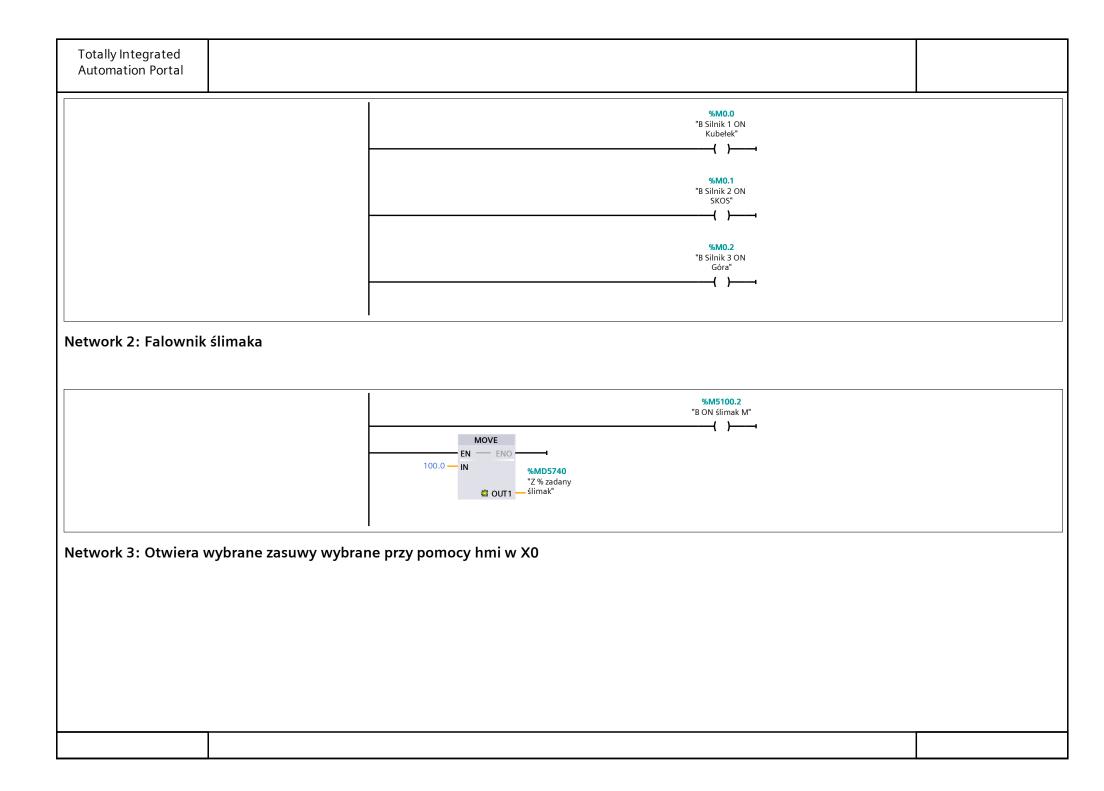
Stan 1 [FC9]

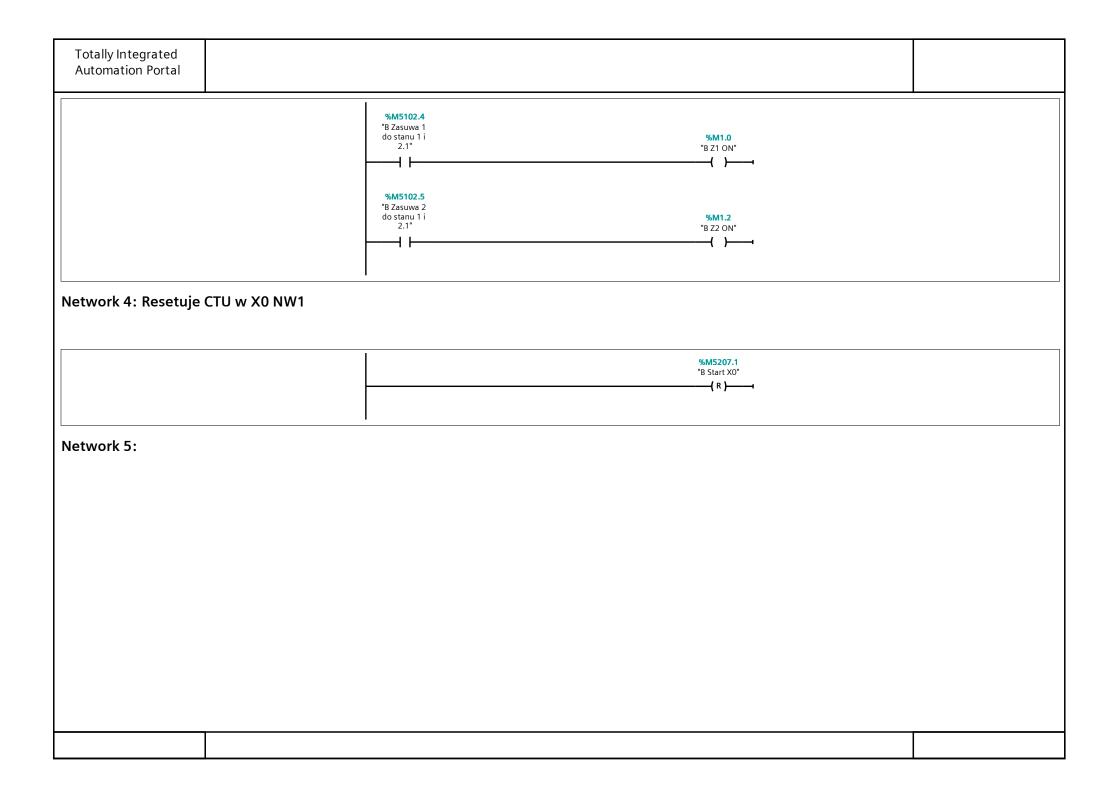
| Stan 1 Propertie | S | | | | | | |
|------------------|-----------|-----------------|---|---------|----|----------|-----|
| General | | | | | | | |
| Name | Stan 1 | Number | 9 | Туре | FC | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | - |

| Name | Data type | Default value |
|----------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Stan 1 | Void | |

Network 1: Silniki

M trzeba usunąć będzie jakk już silniki mogą działać





| Totally Integrated Automation Portal | | |
|---|----------------------|--|
| | %M1.4 "B Z3 ON" | |
| | %M1.5 "B Z4 ON" | |
| | %M1.6 "B Z5 ON" | |
| | %M1.7 "B Z6 ON" (/) | |
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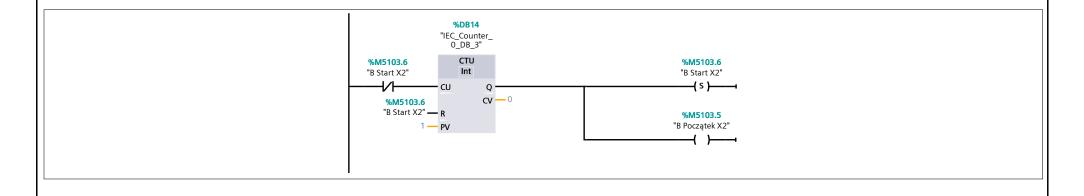
|--|--|

Stan 2 [FC11]

| Stan 2 Properti | es | | | | | | |
|-----------------|-----------|-----------------|----|---------|----|----------|-----|
| General | | | | | | | |
| Name | Stan 2 | Number | 11 | Туре | FC | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| Name | Data type | Default value |
|----------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Stan 2 | Void | |

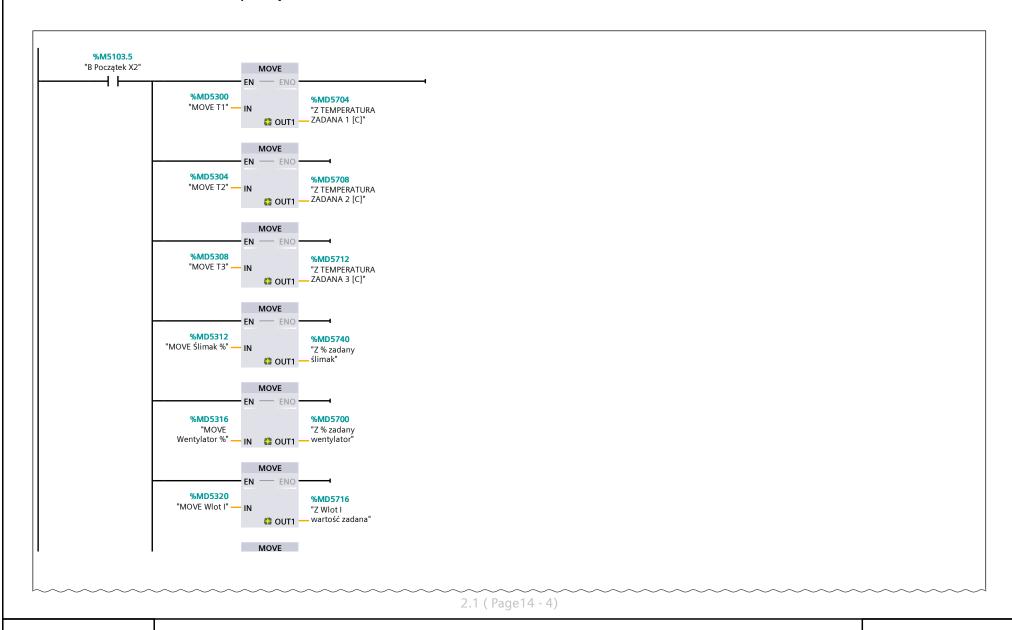
Network 1: Daje napięcie na cewkę B Ustaw X2 tylko raz przy włączeniu stanu X2



| Totally Integrated Automation Portal | | |
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| Network 2: Ustawia | wartości zadane po włączeniu X2 | |
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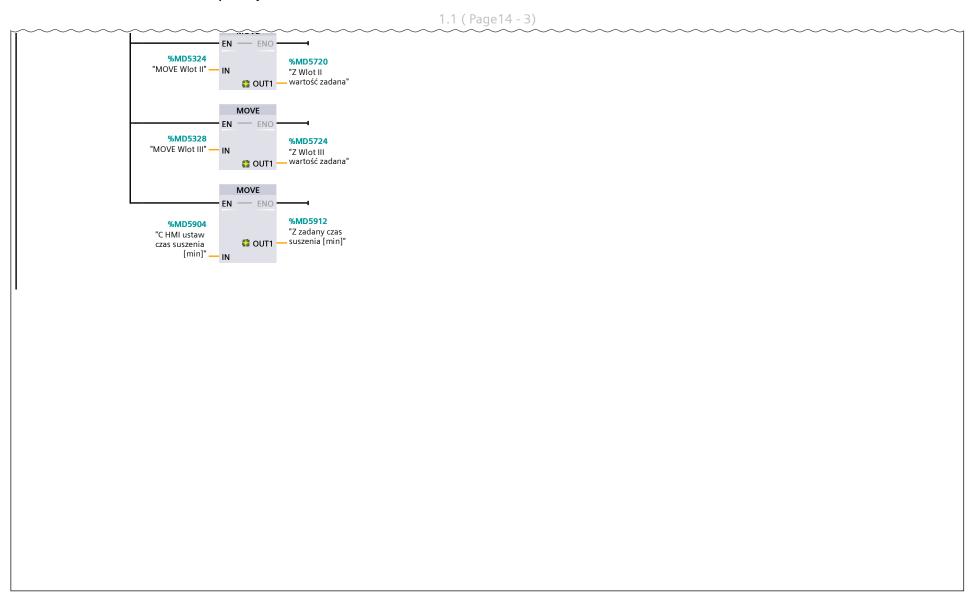
| Totally Integrated |
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| Automation Porta |

Network 2: Ustawia wartości zadane po włączeniu X2 (1.1 / 2.1)



| Totally Integrated |
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| Automation Portal |

Network 2: Ustawia wartości zadane po włączeniu X2 (2.1 / 2.1)



| Totally Integrated Automation Portal | | |
|---|------------------------------------|--|
| Network 3: Ślimak jest włączony | , | |
| | | |
| | %M5100.2 "B ON ślimak M" | |
| Network 4: Silniki | | |
| | | |
| | %M0.0 "B Silnik 1 ON Kubełek" | |
| | %M0.1 "B Silnik 2 ON SKOS" | |
| | *M0.2 "B Silnik 3 ON Góra" () | |
| Network 5: Wentylator | I | |
| | | |
| | %M5100.3 "B ON WENTYLATOR M" () | |
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| Totally Integrated Automation Portal | | |
|---|----------------------------------|----------|
| Network 6: | | <u> </u> |
| | | |
| | %M5104.2 "B Start X2.1.0" | |
| | | |
| | %M5104.4 "B Start X2.1.1" | |
| | | |
| Network 7: | | |
| | | |
| | %M5100.5 "B PID 1 ON" | |
| | | |
| | %M5100.6 "B PID 2 ON" | |
| | ()—- | |
| | %M5100.7 "B PID 3 ON" | |
| | | |
| Network 8: | <u>'</u> | |
| neworks. | | |
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| 921.00 921.00 921.00 921.00 921.00 921.00 921.00 921.00 921.00 921.00 921.00 921.00 921.00 921.00 921.00 921.00 | Totally Integrated Automation Portal | | | |
|--|---|--|---|--|
| %M1.7 "B Z6 ON" | | | %M1.2 "B Z2 ON" (/) %M1.4 "B Z3 ON" () %M1.5 "B Z4 ON" | |
| | | | %M1.7 "B Z6 ON" | |
| | | | | |

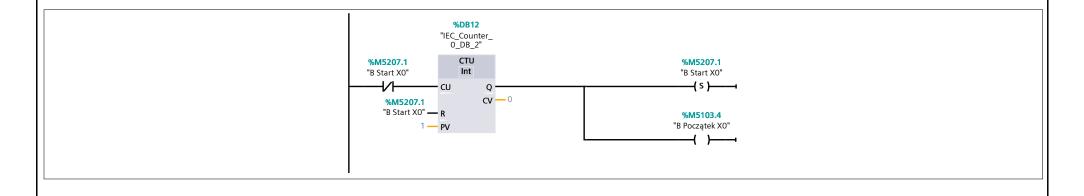
|--|--|

Stan 0 [FC12]

| Stan 0 Properti | Stan O Properties | | | | | | |
|-----------------|-------------------|-----------------|----|---------|----|----------|-----|
| General | | | | | | | |
| Name | Stan 0 | Number | 12 | Туре | FC | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| Name | Data type | Default value |
|----------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Stan 0 | Void | |

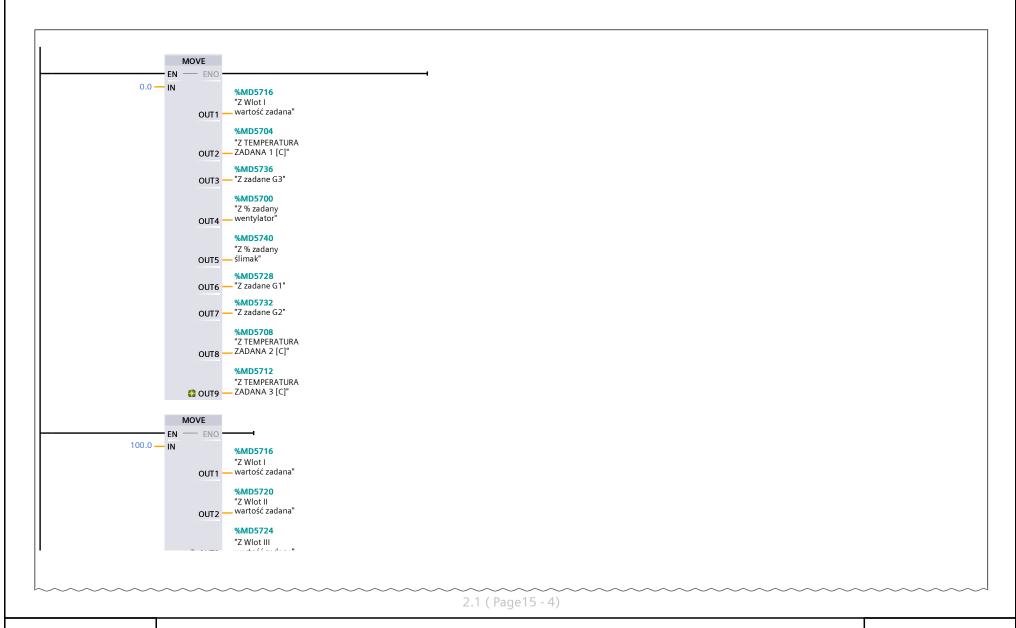
Network 1: Daje napięcie na cewkę B wyczyść move tylko raz przy włączeniu stanu X0



| Totally Integrated Automation Portal | |
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| Network 2: | |
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| Totally Integrated |
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| Automation Portal |

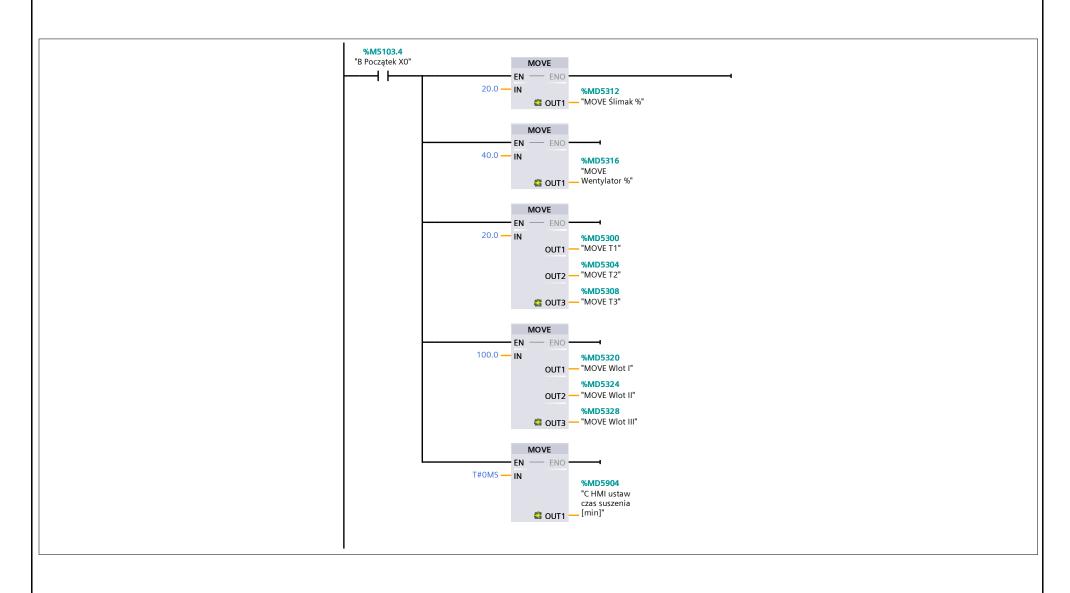
Network 2: (1.1 / 2.1)



| otally Integrated utomation Portal | | | |
|---------------------------------------|--|-------------------|--|
| work 2: (2.1 / 2.1) | | | |
| | | 1.1 (Page15 - 3) | |
| T#0MS - | MOVE EN ENO IN *MD5912 "Z zadany czas OUT1 — suszenia [min]" | | |
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Totally Integrated Automation Portal

Network 3: Wyczyszczenie wartości



| Totally Integrated Automation Portal | | |
|---|--------------------|---|
| letwork 4: zamnąć zasuwy | | - |
| | | |
| | %M1.4 "B Z3 ON" | |
| | %M1.2 "B Z2 ON" | |
| | %M1.0 "B Z1 ON" | |
| | %M1.5 "B Z4 ON" | |
| | %M1.6 "B Z5 ON" | |
| | %M1.7 "B Z6 ON" | |
| letwork 5: Silniki są wyłączone | | |
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| Totally Integrated Automation Portal | | |
|---|---------------------------------|--|
| | %M5100.2 "B ON Ślimak M" | |
| | %M5100.3 "B ON WENTYLATOR M" | |
| | %M0.0 "B Silnik 1 ON Kubelek" | |
| | %M0.1 "B Silnik 2 ON SKOS" (/) | |
| | %M0.2 "B Silnik 3 ON Góra" | |
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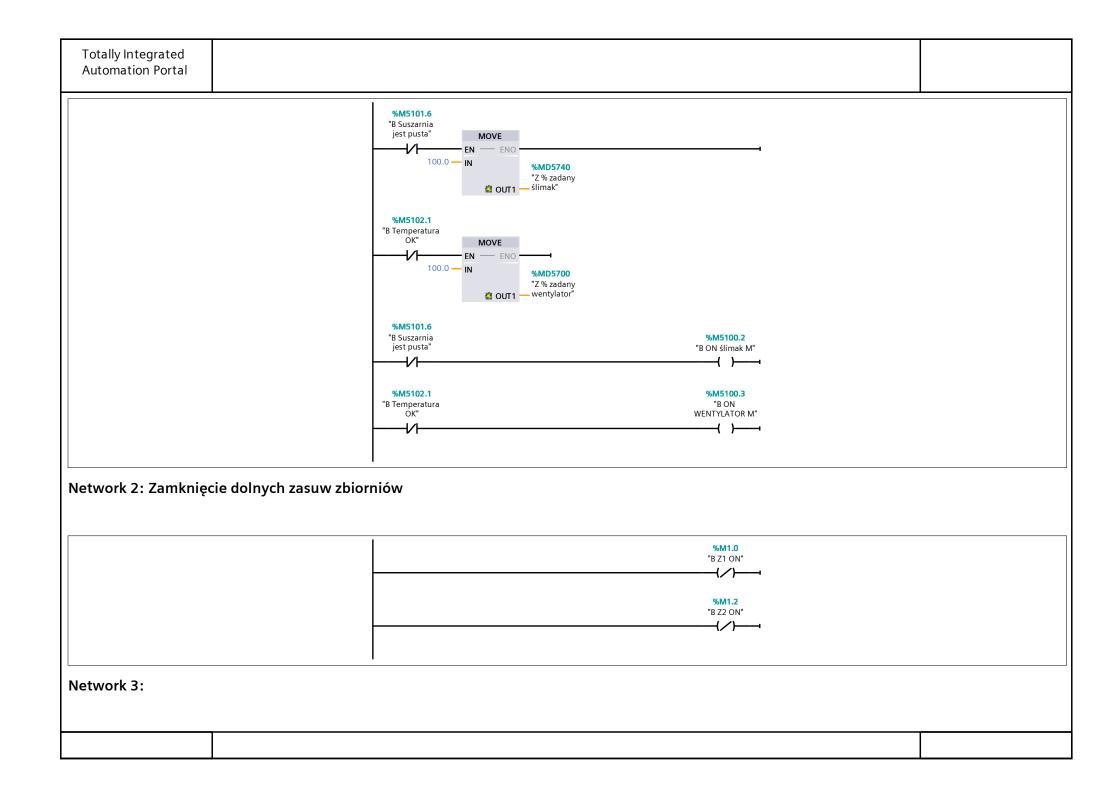
| Totally Integrated Automation Portal | |
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Stan 3 [FC13]

| Stan 3 Propertie | Stan 3 Properties | | | | | | |
|------------------|-------------------|-----------------|----|---------|----|----------|-----|
| General | | | | | | | |
| Name | Stan 3 | Number | 13 | Туре | FC | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| Name | Data type | Default value |
|----------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Stan 3 | Void | |

Network 1: Ustalenie wartości max wentylatora i ślimaka



| Totally Integrated Automation Portal | | | |
|---|----------------------|--------------------------|--|
| | | %M5100.5 "B PID 1 ON" | |
| | | %M5100.6 "B PID 2 ON" | |
| | | %M5100.7 "B PID 3 ON" | |
| N | | | |
| Network 4: Zasuwa s | uszarni jest otwarta | | |
| | | %M1.4 "B Z3 ON" | |
| | | | |
| Network 5: Silniki | | | |
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%M0.0"B Silnik 1 ON Kubełek"

%M0.2"B Silnik 3 ON Góra"

ET — T#0ms

T#30s — PT

Network 6: Zasuwy Z4 Z5 Z6

Network 7:

Resetuje CTU w X2 i X2.1

| Totally Integrated Automation Portal | | | |
|---|--|--|--|
| | | %M5103.6 "B Start X2" (R) %M5104.2 "B Start X2.1.0" (R) | |
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| Totally Integrated Automation Portal | |
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Startup [OB100]

| Startup Propert | Startup Properties | | | | | | |
|-----------------|--------------------|-----------------|-----|---------|----|----------|-----|
| General | | | | | | | |
| Name | Startup | Number | 100 | Туре | ОВ | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | "Complete Restart" | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | • |

| Name | Data type | Default value |
|---------------|-----------|---------------|
| ▼ Input | | |
| LostRetentive | Bool | |
| LostRTC | Bool | |
| Temp | | |
| Constant | | |

Network 1: Stan początkowy

| Totally Integrated Automation Portal | | | |
|---|-------------------|---|--|
| | | %M5000.3 "X0 Stan 0 - jałowy" | |
| | | %M5000.0 "X1 Stan 1 - Ładowanie materiału" | |
| | | *M5000.1 "X2 Stan 2 - suszenie materiału" { R } | |
| | | %M5000.2 "X3 Stan 3 - opróżnianie suszarni" R } | |
| | | %M5001.0 "X Stan Awaryjny" (R) | |
| Network 2: Włączeni | e ekranu głównego | | |
| | | %M5800.0 "HMI do Ekranu głównego" | |
| | | | |
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| Totally Integrated Automation Portal | |
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Obliczenia Wloty powietrza [FC15]

| Obliczenia Wloty | Obliczenia Wloty powietrza Properties | | | | | | |
|------------------|---------------------------------------|-----------------|----|---------|----|----------|-----|
| General | General | | | | | | |
| Name | Obliczenia Wloty powietrza | Number | 15 | Туре | FC | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |

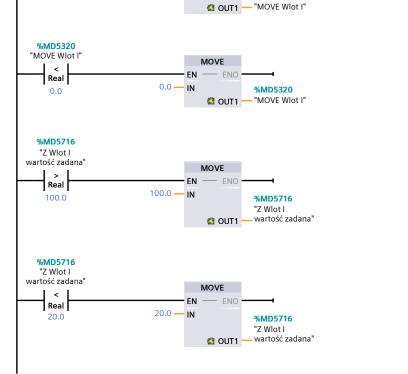
| Name | Data type | Default value |
|----------------------------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Obliczenia Wloty powietrza | Void | |

Network 1:

Ograniczenia wartości zadanej wlotu I

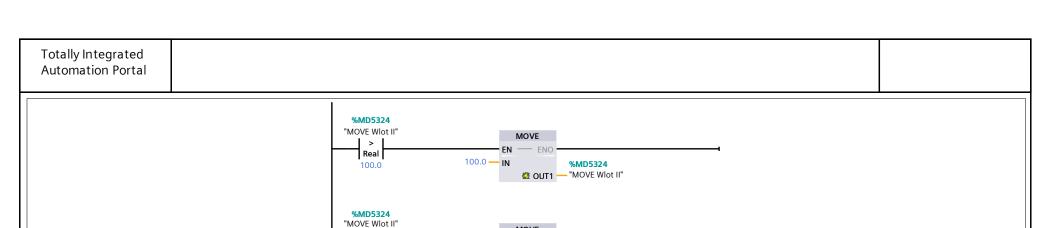
Totally Integrated **Automation Portal** %MD5320 "MOVE Wlot I" MOVE > EN - ENO -Real 100.0 — IN

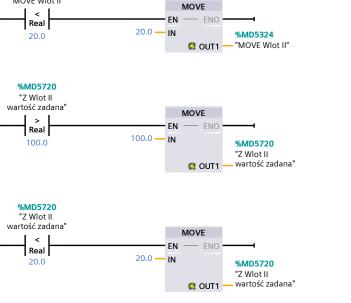
100.0



Network 2:

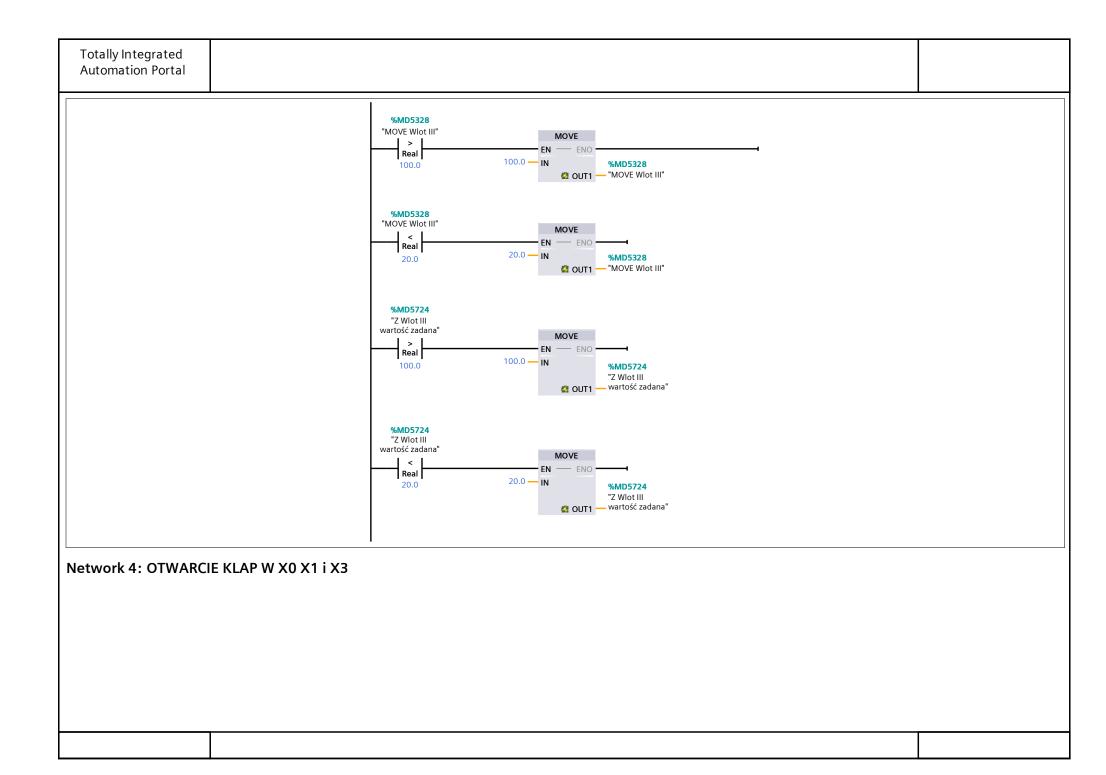
Ograniczenia wartości zadanej wlotu II

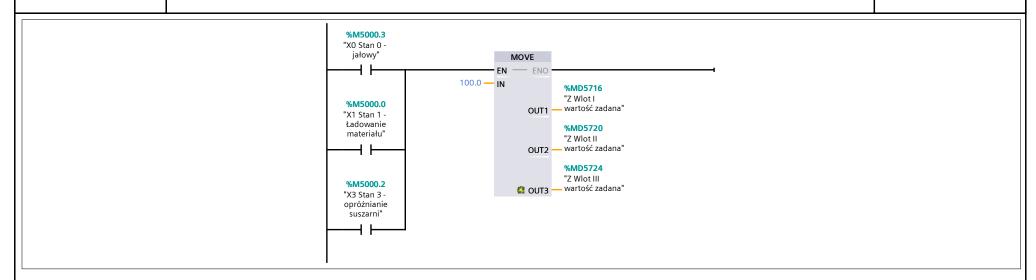




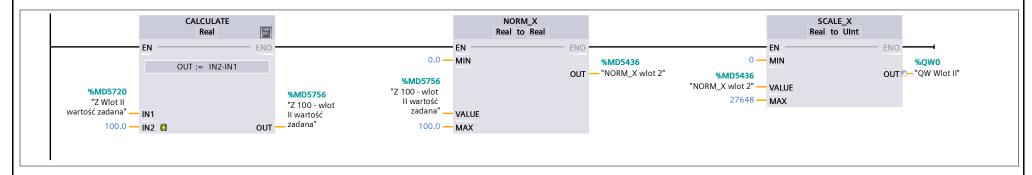
Network 3:

Ograniczenia wartości zadanej wlotu III

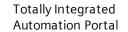


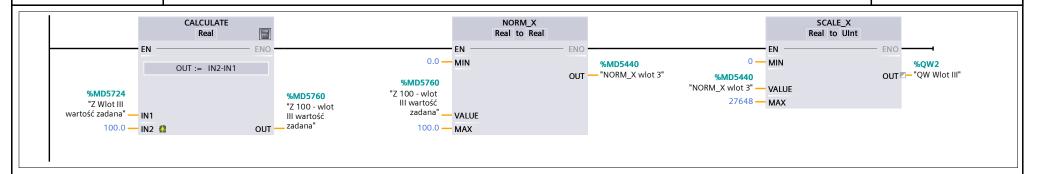


Network 5:

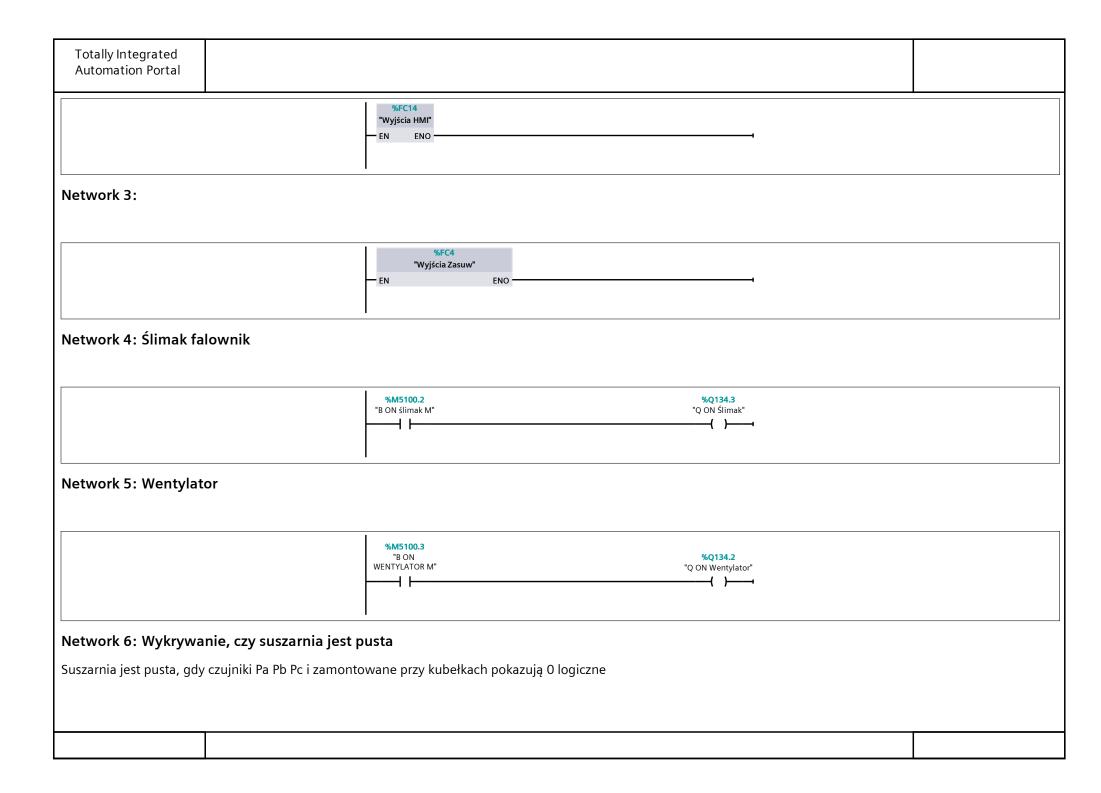


Network 6:





| | | | | | | | | | |
|-----------------------------|-----------------|-----------------|----------------------------|----------|---------|----|---------------|------------|-------------|
| Totally Integ Automation | rated Portal | | | | | | | | |
| Program | | | | | | | | | |
| Wyjścia [F0 | C24] | | | | | | | | |
| Wyjścia Propert | ties | | | | | | | | |
| General | | | | | | | | | |
| Name | Wyjścia | Number | 24 | | Туре | FC | | Language L | AD |
| Numbering | Automatic | | | | | | | | |
| Information | | | | | | | | | |
| Title | | Author | | | Comment | | | Family | |
| Version | 0.1 | User-defined ID | | | | | | | |
| Name | | | | Data typ | ie | | Default value | | |
| Input | | | | | | | | | |
| Output | | | | | | | | | |
| InOut | | | | | | | | | |
| Temp | | | | | | | | | |
| Constant | | | | | | | | | |
| ▼ Return | | | | | | | | | |
| Wyjścia | | | | Void | | | | | |
| | | | | - | | | ! | | |
| Network 1: | | | | | | | | | |
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| | | | %FC6 "Wyjścia Silników" | | | | | | |
| | | — EN | ENC | | | | | | |
| | | | Enc | | | | | | |
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| National 2 | | | | | | | | | |
| Network 2: | | | | | | | | | |
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| Totally Integrated Automation Portal | | | | | | | | |
|---|-------------------|-------------------|--------------------------|-----------------|-----------------|-----------------|-----------------------------------|--|
| | %I148.0 "I Pa" | %I148.1 "I Pb" | %I148.2 "I Pc" | %I11.0 "CP3" | %I11.1 "CP4" | %l11.2 "CP5" | %M5101.6 "B Suszarnia jest pusta" | |
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|-----------------------------|-----------------|-----------------|-------------------------------|----------|---------|----|---------------|--------------------|----|
| Program | | | | | | | | | |
| Obliczenia | [FC26] | | | | | | | | |
| Obliczenia Prop | perties | | | | | | | | |
| General | _ | | | | | | | | |
| Name | Obliczenia | Number | 26 | | Туре | FC | | L anguage l | AD |
| Numbering Information | Automatic | | | | | | | | |
| Title | | Author | | | Comment | | | Family | |
| Version | 0.1 | User-defined ID | | | Comment | | | lailily | |
| | | | | | | | | | |
| Name | | | | Data typ | e | | Default value | | |
| Input | | | | | | | | | |
| Output InOut | | | | | | | | | |
| | | | | | | | | | |
| Temp Constant | | | | | | | | | |
| ▼ Return | | | | | | | | | |
| | | | | Void | | | | | |
| Obliczenia | a | | | void | | | | | |
| Network 1: | | | | | | | | | |
| | | EN | %FC5 "Obliczenia GRZAŁKI" ENC |) ——— | | | | | |
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| Network 2: | | | | | | | | | |
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| Totally Integrated Automation Portal | | |
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| | "Obliczenia Odczyt temperatury" — EN ENO | |
| Network 3: | | |
| | "Obliczenia ŚLIMAK FALOWNIK" EN ENO | |
| Network 4: | | |
| | %FC1 "Obliczenia WENTYLATOR" — EN ENO | |
| Network 5: | | |
| | %FC15 "Obliczenia Wloty powietrza" — EN ENO | |
| Network 6: | | |
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| Totally Integrated Automation Portal | | | | |
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Data_block_1 [DB6]

| Data_block_1 Pr | operties | | | | | | |
|-----------------|--------------|-----------------|---|---------|----|----------|----|
| General | | | | | | | |
| Name | Data_block_1 | Number | 6 | Туре | DB | Language | DB |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| Name | Data type | Start value | Retain |
|--------------------|-----------|-------------|--------|
| ▼ Static | | | |
| hardware intererer | Int | 0 | False |

| Totally Integrated Automation Portal | |
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Stan 2.1 [FC7]

| Stan 2.1 Propert | ies | | | | | | |
|------------------|-----------|-----------------|---|---------|----|----------|-----|
| General | | | | | | | |
| Name | Stan 2.1 | Number | 7 | Туре | FC | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | - |

| Name | Data type | Default value |
|----------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Stan 2.1 | Void | |

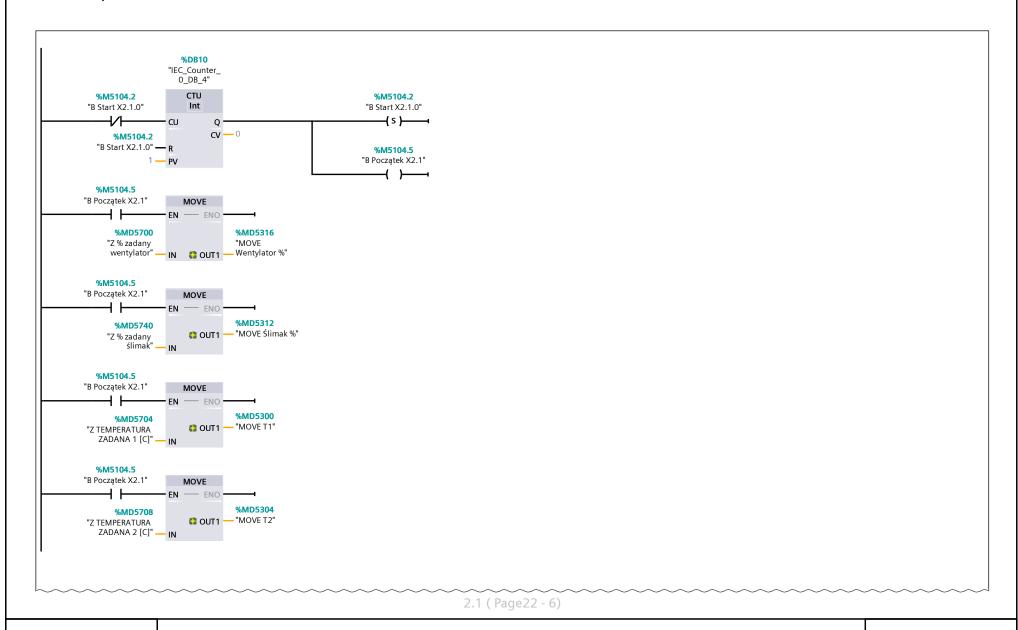
Network 1:

| otally Integrated automation Portal | | |
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| work 1: (1.1 / 2.1) | | |
| | | |
| | %M5103.6 "B Start X2" ——————————————————————————————————— | |
| | %M5100.5 "B PID 1 ON" | |
| | %M5100.6 | |
| | "B PID 2 ON" | |
| | %M5100.7 "B PID 3 ON" | |
| %M5102.5 "B Zasuwa 2 | | |
| "B Zasuwa 2 do stanu 1 i 2.1" | %M1.2 "B Z2 ON" | |
| %M5102.4 "B Zasuwa 1 | | |
| "B Zasuwa 1 do stanu 1 i 2.1" | %M1.0 "B Z1 ON" | |
| | %M1.4 "B Z3 ON" | |
| | %M1.5 "B Z4 ON" | |
| | (/) | |
| | %M1.6 "B Z5 ON" | |
| L | 2.1 (Page22 - 3) | |

| Totally Integrated Automation Portal | | |
|---|---|--|
| Network 1: (2.1 / 2.1) | | |
| ······ | 1.1 (Page22 - 2) | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| | ──────────────────────────────────── | |
| | %M1.7 "B Z6 ON" (/) | |
| | %M0.0 "B Silnik 1 ON Kubełek" | |
| | %M0.1 "B Silnik 2 ON SKOS" | |
| | %M0.2 "B Silnik 3 ON Góra" | |
| | %M5100.2 "B ON ślimak M" () | |
| | %M5100.3 "B ON WENTYLATOR M" () | |
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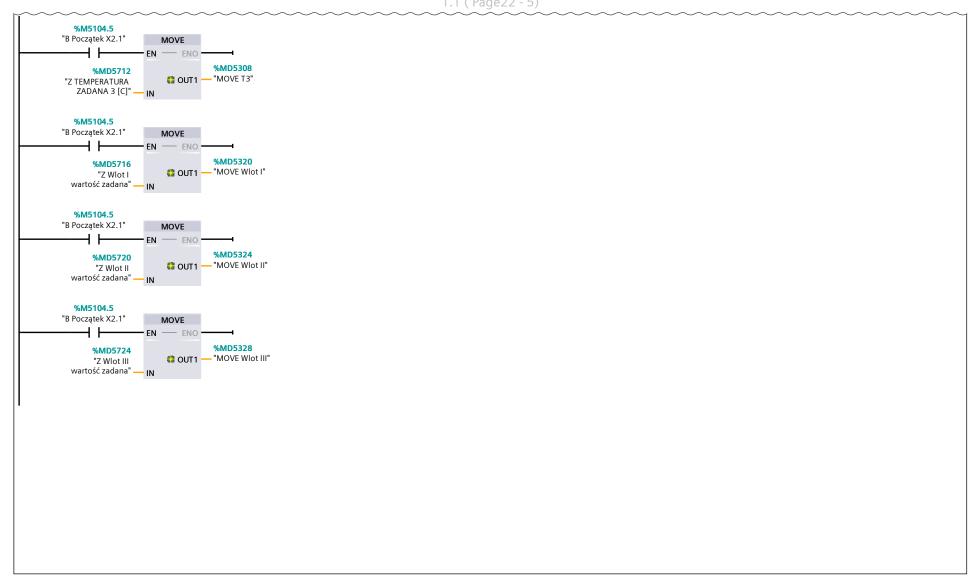
| Totally Integrated Automation Portal | | |
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| Network 2: Zapisanie | wartości | |
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Network 2: Zapisanie wartości (1.1 / 2.1)



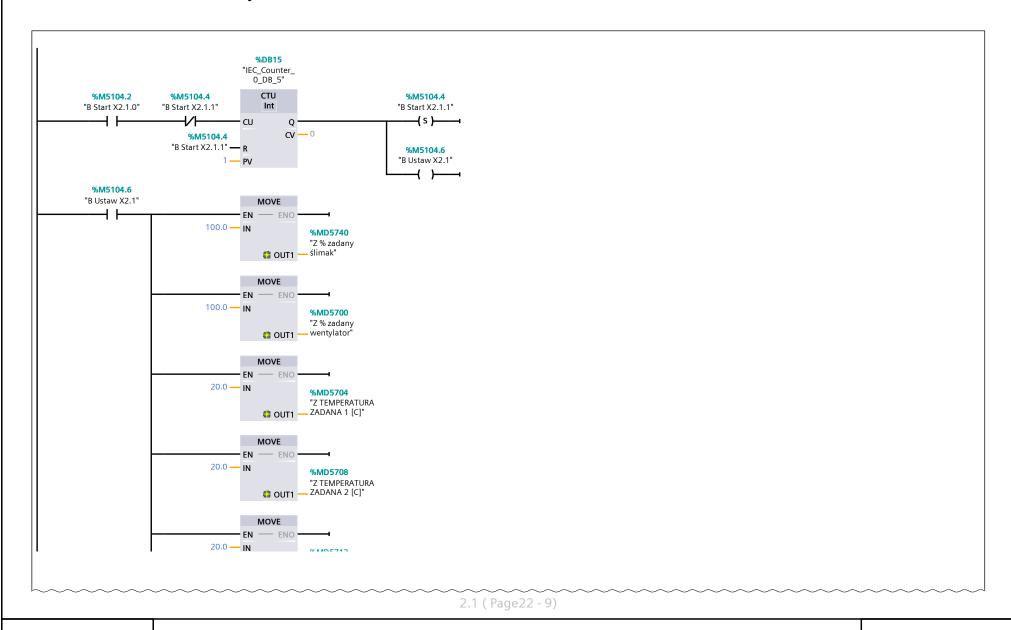
Network 2: Zapisanie wartości (2.1 / 2.1)

1.1 (Page22 - 5)



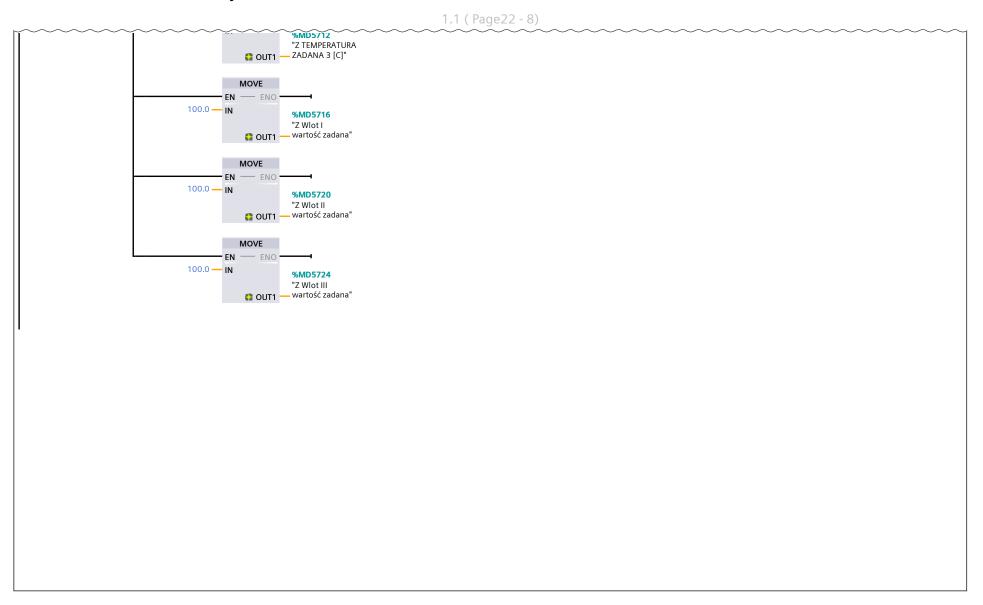
| Totally Integrated Automation Portal | | |
|---|----------------------|--|
| Network 3: Ustawien | ie wartości zadanych | |
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Network 3: Ustawienie wartości zadanych (1.1 / 2.1)



| Totally Integrated |
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| Automation Portal |

Network 3: Ustawienie wartości zadanych (2.1 / 2.1)



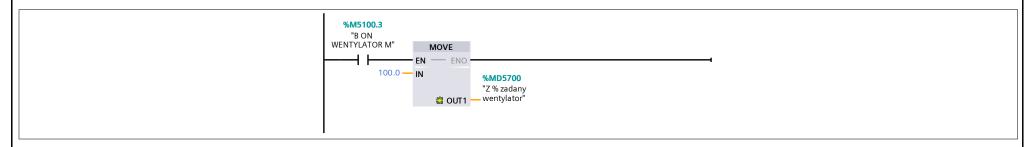
| Totally Integrated |
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| Automation Portal |

Stan awaryjny [FC10]

| Stan awaryjny Properties | | | | | | | | |
|--------------------------|---------------|-----------------|----|---------|----|----------|-----|--|
| General | | | | | | | | |
| Name | Stan awaryjny | Number | 10 | Туре | FC | Language | LAD | |
| Numbering | Automatic | | | | | | | |
| Information | | | | | | | | |
| Title | | Author | | Comment | | Family | | |
| Version | 0.1 | User-defined ID | | | : | | | |

| Name | Data type | Default value |
|---------------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Stan awaryjny | Void | |

Network 1: Temperatura jest za wysoka



Network 2: Wentylator

| Totally Integrated Automation Portal | | | | | |
|---|-----------------------------|-------------------------------------|-------------------------------|--|--|
| | %M5102.1 "B Temperatura OK" | %M5104.7 "B wymuś stop wentylatora" | %M5100.3 "B ON WENTYLATOR M" | | |
| Network 3: | | | | | |
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| Totally Integrated Automation Portal | | | |
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| Network 3: (1.1 / 2.1) | | | • |
| | %M5100.2 "B ON ślimak M" | | |
| | %M5100.5 "B PID 1 ON" | | |
| | %M5100.6 "B PID 2 ON" | | |
| | %M5100.7 "B PID 3 ON" | | |
| | %M0.0 "B Silnik 1 ON Kubelek" | | |
| | %M0.1 "B Silnik 2 ON SKOS" | | |
| | %M0.2 "B Silnik 3 ON Góra" | | |
| MOVE EN ENO 100.0 IN %MD5716 "Z Wlot I wartość zadana" | . , | | |
| MOVE EN — ENO | | | |
| h | 2.1 (Page2 | 3 - 4) | |

| | Portal | | | | |
|------------|-----------------|---|-------------------|---|--------------------|
| work 3: (2 | 2.1 / 2.1) | | | | |
| | ~~~ <u>~</u> ~~ | | 1.1 (Page23 - 3) | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~ ₁ |
| | 100.0 — IN | %MD5720 "Z Wlot II OUT1 — wartość zadana" | | | |
| | MOVE | | | | |
| | 100.0 — IN | **MD5724 "Z Wlot III — wartość zadana" | | | |
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| Totally Integrated Automation Portal | | |
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| Network 4: | | 1 |
| | %M1.0 "B Z1 ON" %M1.2 "B Z2 ON" %M1.4 "B Z3 ON" %M1.5 "B Z4 ON" %M1.6 "B Z5 ON" %M1.7 "B Z6 ON" | |
| Network 5: | | |
| | | |
| | %M5800.4 "HMI do Ekranu Awaria" | |
| | | |
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| Totally Integrated Automation Portal | | |
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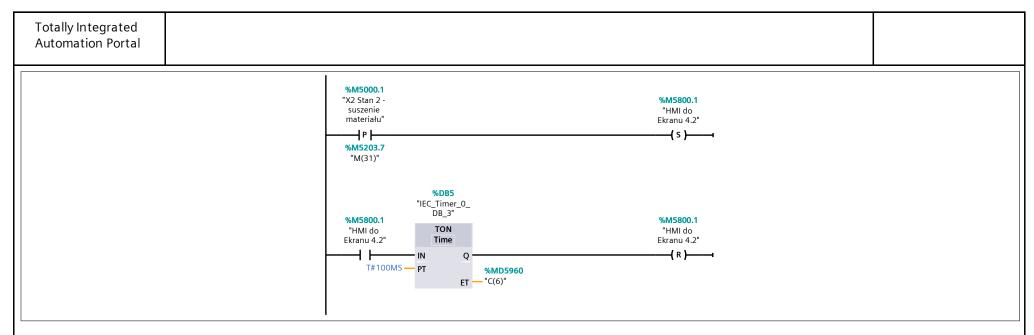
Wyjścia HMI [FC14]

| Wyjścia HMI Pro | operties | | | | | | |
|-----------------|-------------|-----------------|----|---------|----|----------|-----|
| General | | | | | | | |
| Name | Wyjścia HMI | Number | 14 | Туре | FC | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | • | | • |

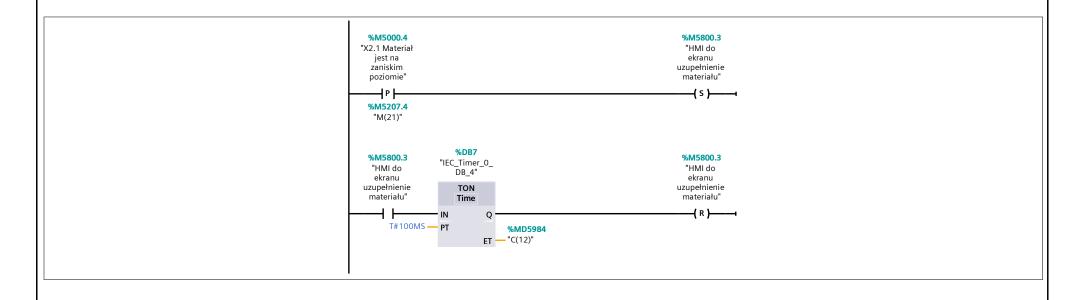
| Name | Data type | Default value |
|-------------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Wyjścia HMI | Void | |

Network 1: Ustaw Ekran główny na hmi

Totally Integrated **Automation Portal** %M5800.0 %M5000.3 "HMI do "X0 Stan 0 -Ekranu głównego" jałowy" —(s)—— \dashv P \vdash %M5202.7 "M(23)" %DB4 %M5800.0 %M5800.0 "IEC_Timer_0_DB" "HMI do "HMI do TON Ekranu Ekranu głównego" Time głównego" -(R)------T#100MS — PT %MD5968 ET - "C(8)" Network 2: %M5000.0 "X1 Stan 1 -%M5800.5 Ładowanie "HMI do materiału" Ekkranu 4.1" \dashv P \vdash _(s }___ %M5208.1 "M(47)" %DB16 "IEC_Timer_0_ DB_7" %M5800.5 %M5800.5 TON "HMI do "HMI do Ekkranu 4.1" Ekkranu 4.1" Time -(R)-------T#100MS — PT **ET** — T#0ms Network 3:



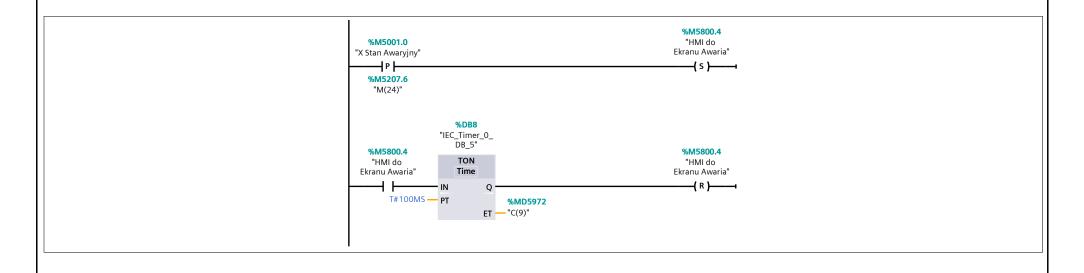
Network 4:



Network 5:

```
%M5000.2
                                                                   %M5800.2
"X3 Stan 3 -
opróżnianie
                                                                   "HMI do
suszarni"
                                                                  Ekranu 5.0"
                                                                    _( s }___
  ᅰ┍┝
%M5208.0
 "M(46)"
                  %DB9
               "IEC_Timer_0_
                  DB_6"
%M5800.2
                                                                   %M5800.2
                   TON
"HMI do
                                                                   "HMI do
Ekranu 5.0"
                  Time
                                                                  Ekranu 5.0"
                                                                    _( R )____
    T#100MS — PT
                             %MD5988
                        ET — "C(13)"
```

Network 6:



| Totally Integrated Automation Portal | | |
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| Network 7: | | |
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| Totally Inte Automation | grated n Portal | | | | | | | | |
|----------------------------|-------------------------------------|-----------------|----|---------|---------|----|---------------|----------|-----|
| Program | blocks | | | | | | | | |
| Cyclic inte | errupt Czas suszenia | [OB33] | | | | | | | |
| Cyclic interrup | ot Czas suszenia Properties | | | | | | | | |
| General | | | | | | | | | |
| Name | Cyclic interrupt Czas susze- nia | Number | 33 | | Туре | ОВ | | Language | LAD |
| Numbering | Automatic | | | | | · | | | |
| Information | | | _ | | | | | | |
| Title | | Author | | | Comment | | | Family | |
| Version | 0.1 | User-defined ID | | | | | | | |
| Name | | | | Data ty | pe | | Default value | | |
| ▼ Input | | | | | - | | | | |
| Initial_C | all | | | Bool | | | | | |
| Event_C | | | | Int | | | | | |
| Temp | | | | | | | | | |
| Constant | | | | | | | | | |
| Constant | Odliczanie do końca sus | | | | | | | | |

Totally Integrated
Automation Portal

**DB11

"IEC_Timer_O_
DB_1"

"IEC_Timer_O_
DB_2"

TON
TON
Time

Time

%MD5928

ET — "C opóźnienie 1"

T#24D — PT

%M5100.0

"B Koniec

suszenia"

%MD5944

"C timer czas

suszenia [ms]"

>= DInt
%MD5908
"Z zadany czas suszenia [ms]"

%MD5944

ET - suszenia [ms]"

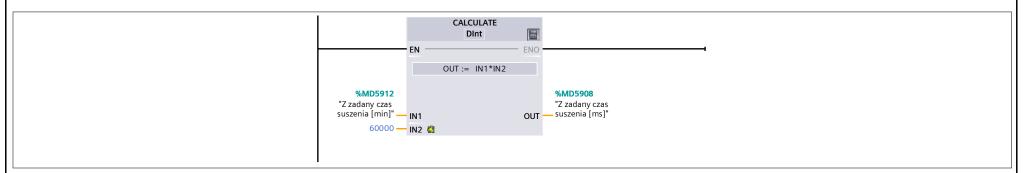
"C timer czas

T#100ms — PT

Network 2: Przeliczenie zadanego czasu suszenia na ms

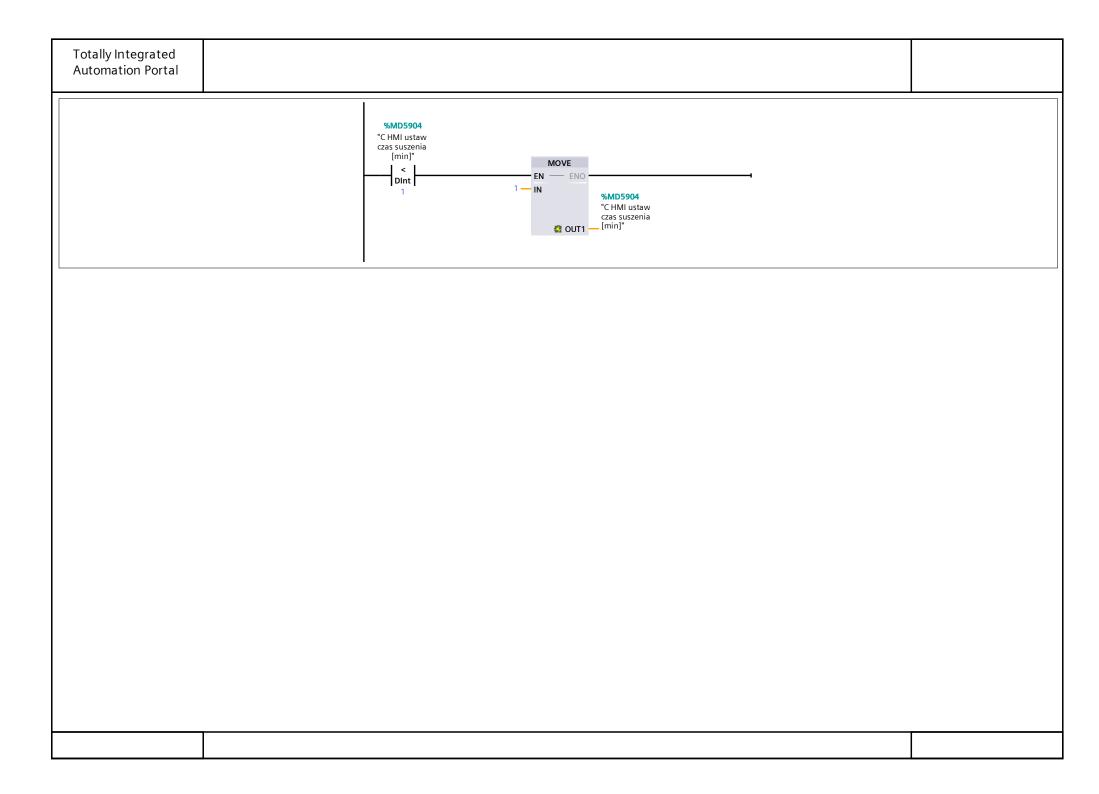
%M5000.4

"X2.1 Materiał jest na zaniskim poziomie"



Network 3: Obliczenie pozostałego czasu suszenia [ms]

Totally Integrated **Automation Portal** CALCULATE DInt OUT := IN1-IN2 %MD5924 %MD5908 "C zad - c OUT — timer [ms]" "Z zadany czas suszenia [ms]" — IN1 %MD5944 "C timer czas suszenia [ms]" — IN2 🎎 Network 4: Pozostały czas suszenia [min] CALCULATE Dint OUT := (IN1/IN2)+IN3 %MD5924 %MD5916 "C zad - c "C pozostały czas suszenia timer [ms]" — IN1 OUT — [min]" 60000 — IN2 1 — IN3 🎎 Network 5: Ograniczenia czasu suszenia



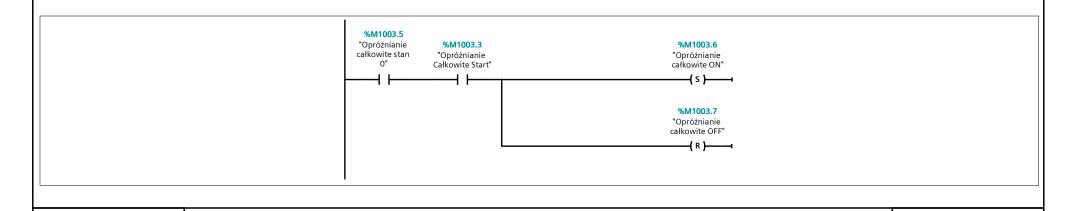
|--|

Opróżnianie Całego stanowiska [FC23]

| Opróżnianie Ca | ałego stanowiska Properties | | | | | | |
|----------------|------------------------------------|-----------------|----|---------|----|----------|-----|
| General | | | | | | | |
| Name | Opróżnianie Całego stano- wiska | Number | 23 | Туре | FC | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| Name | Data type | Default value |
|-------------------------------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Opróżnianie Całego stanowiska | Void | |

Network 1:



| Network 2: *M1003.6 | | |
|---|---|--|
| "Opróżnianie całkowite ON" Całkowite Stop" WM1000.4 %M1001.5 | | |
| %M1003.6 "Opróżnianie całkowite ON" | %M1003.7 "Opróżnianie całkowite OFF" (S) %M1003.6 "Opróżnianie całkowite ON" (R) | |
| "Opróżnianie całkowite ON" | | |
| Network 4: Logika stanu 0 | %M1001.1 "Zbiornik 1 Opróżnianie" () %M1002.2 "Zbiornik 2 Opróżnianie" | |
| | %Q4.7 "Q Z5" | |
| | | |

| Totally Integrated Automation Portal | | | |
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| | %M1002.0 %M1000.7 "Zbiornik 2 "Zbiornik 1 stan 0" stan 0" | %M1003.5 "Opróżnianie całkowite stan 0" (S) | |
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| Totally Integrated Automation Portal | |
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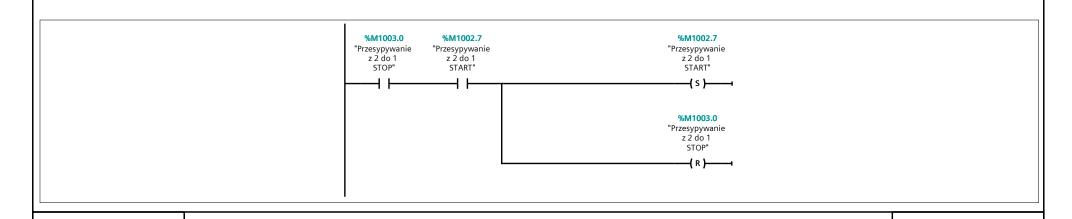
Program blocks

Przesypywanie z 2 do 1 zbiornika [FC21]

| Przesypywanie z 2 do 1 zbiornika Properties | | | | | | | |
|---|-------------------------------------|-----------------|----|---------|----|----------|-----|
| General | | | | | | | |
| Name | Przesypywanie z 2 do 1 zbiornika | Number | 21 | Туре | FC | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| Name | Data type | Default value |
|----------------------------------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Przesypywanie z 2 do 1 zbiornika | Void | |

Network 1:



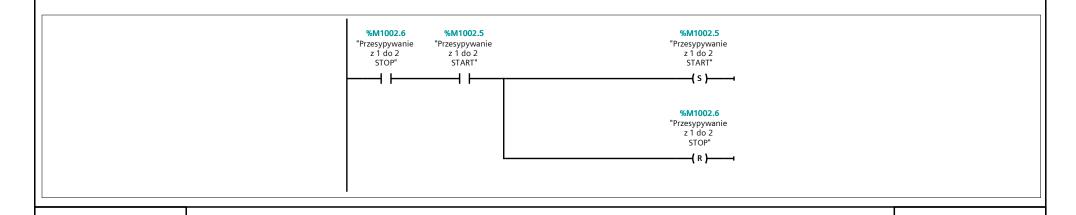
| Totally Integrated Automation Portal | | | |
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| etwork 2: | | | |
| | 1 | | |
| | %M1002.7 "Przesypywanie z 2 do 1 START" "Zbiornik 2 Pusty" | %M1003.0 "Przesypywanie z 2 do 1 STOP" | |
| | START" "Zbiornik 2 Pusty" | (s) | |
| | %M1000.3 "Zbiornik 1 Pełny" | %M1002.7 "Przesypywanie | |
| | | "Przesypywanie z 2 do 1 START" (R)——— | |
| | | | |
| | | | |
| atwork 3. Przycisk startujący n | oces opróżniania | | |
| etwork 3: Przycisk startujący pr | oces opróżniania | | |
| etwork 3: Przycisk startujący pr | | | |
| etwork 3: Przycisk startujący pr | "Przesypywanie z 2 do 1 START" | %M1001.2 "Zbiornik 1 Zasypywanie" | |
| etwork 3: Przycisk startujący pr | %M1002.7 "Przesypywanie z 2 do 1 | %M1001.2 "Zbiornik 1 Zasypywanie" | |
| etwork 3: Przycisk startujący pr | %M1002.7 "Przesypywanie z 2 do 1 | "Zbiornik 1 Zasypywanie" () %M1002.4 "Zbiornik 2 | |
| etwork 3: Przycisk startujący pr | %M1002.7 "Przesypywanie z 2 do 1 | "Zbiornik 1 Zasypywanie" () %M1002.4 | |
| etwork 3: Przycisk startujący pr | %M1002.7 "Przesypywanie z 2 do 1 | "Zbiornik 1 Zasypywanie" | |
| etwork 3: Przycisk startujący pr | %M1002.7 "Przesypywanie z 2 do 1 | "Zbiornik 1 Zasypywanie" | |
| etwork 3: Przycisk startujący pr | %M1002.7 "Przesypywanie z 2 do 1 | "Zbiornik 1 Zasypywanie" | |
| etwork 3: Przycisk startujący pr | %M1002.7 "Przesypywanie z 2 do 1 | "Zbiornik 1 Zasypywanie" | |

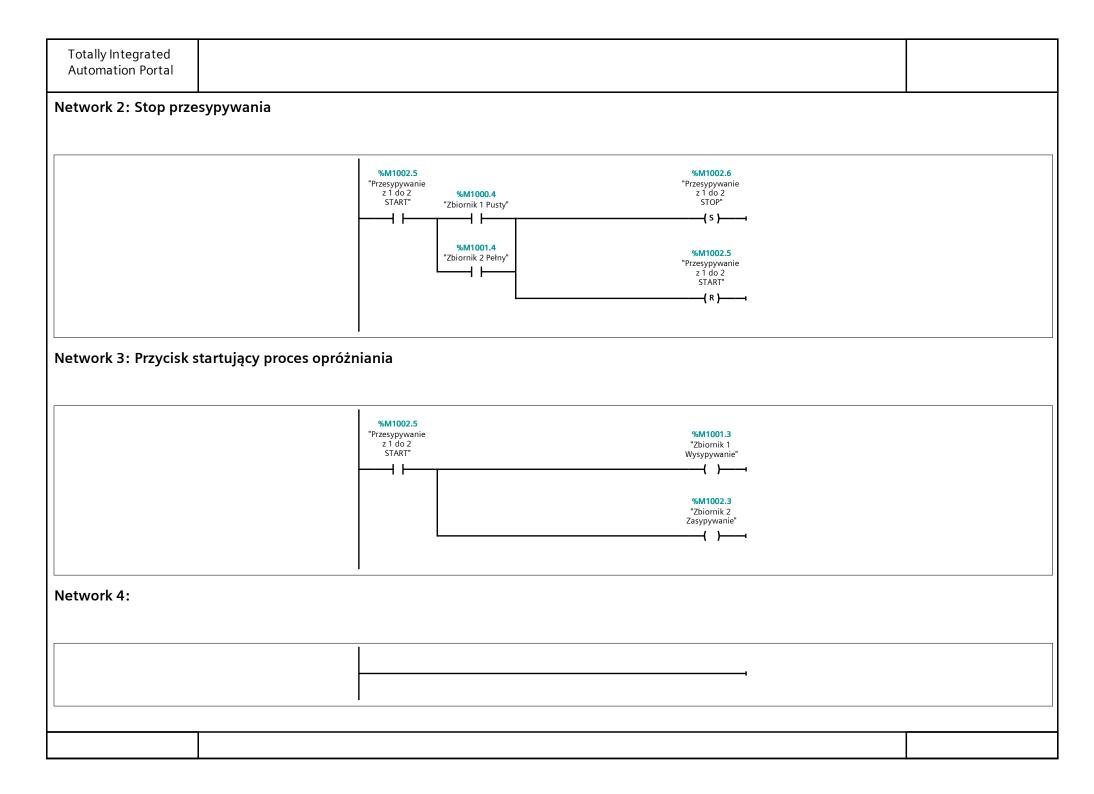
| Program blocks | |
|--|--|
| Przesypywanie z 1 do 2 zbiornika [FC20] Przesypywanie z 1 do 2 zbiornika Properties | |

| Przesypywanie z 1 do 2 zbiornika Properties | | | | | | | | |
|---|----------------------------------|-----------------|----|---------|----|----------|-----|--|
| General | General | | | | | | | |
| Name | Przesypywanie z 1 do 2 zbiornika | Number | 20 | Туре | FC | Language | LAD | |
| Numbering | Automatic | | | | | | | |
| Information | Information | | | | | | | |
| Title | | Author | | Comment | | Family | | |
| Version | 0.1 | User-defined ID | | | | | | |

| Name | Data type | Default value |
|----------------------------------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Przesypywanie z 1 do 2 zbiornika | Void | |

Network 1: Start Przesypywania





| Totally Integrated Automation Portal | Totally Integrated Automation Portal |
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Program blocks

Transport [FC16]

| Transport Properties | | | | | | | |
|----------------------|-------------|-----------------|----|---------|----|----------|-----|
| General | | | | | | | |
| Name | Transport | Number | 16 | Туре | FC | Language | LAD |
| Numbering | Automatic | | | | | | |
| Information | Information | | | | | | |
| Title | | Author | | Comment | | Family | |
| Version | 0.1 | User-defined ID | | | | | |

| Name | Data type | Default value |
|-----------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Transport | Void | |

Network 1:

| Totally Integrated Automation Portal | | |
|---|---|--|
| Network 1: (1.1 / 2.1) | | |
| %M1000.0 "Transport Start" | %M0.0 "B Silnik 1 ON Kubełek" | |
| %M1001.0 "Zbiornik 1 Napełnianie" | %M0.2 "B Silnik 3 ON Góra" () | |
| %M1001.1 "Zbiornik 1 Opróżnianie" | %M0.1 "B Silnik 2 ON SKOS" () | |
| %M1002.1 "Zbiornik 2 Napełnianie" | %M5100.2 "B ON ślimak M" () MOVE EN ENO | |
| %M1002.2 "Zbiornik 2 Opróżnianie" | 100.0 — IN | |
| %M1003.6 "Opróżnianie całkowite ON" | | |
| %M1002.5 "Przesypywanie z 1 do 2 START" | | |
| %M1002.7 | | |

| Totally Integrated Automation Portal | | |
|---|-------------------|--|
| etwork 1: (2.1 / 2.1) | | |
| | 1.1 (Page29 - 2) | |
| Przesypywanie z 2 do 1 START" | | |
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| Totally Integrated Automation Portal | | |
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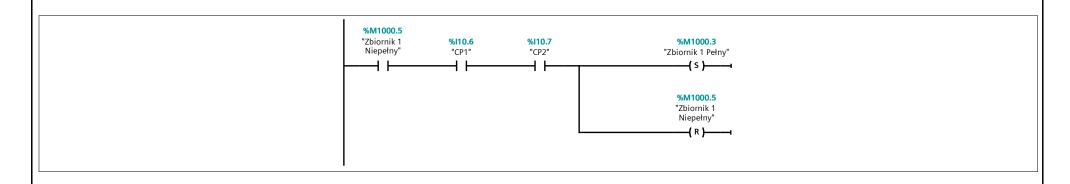
Program blocks

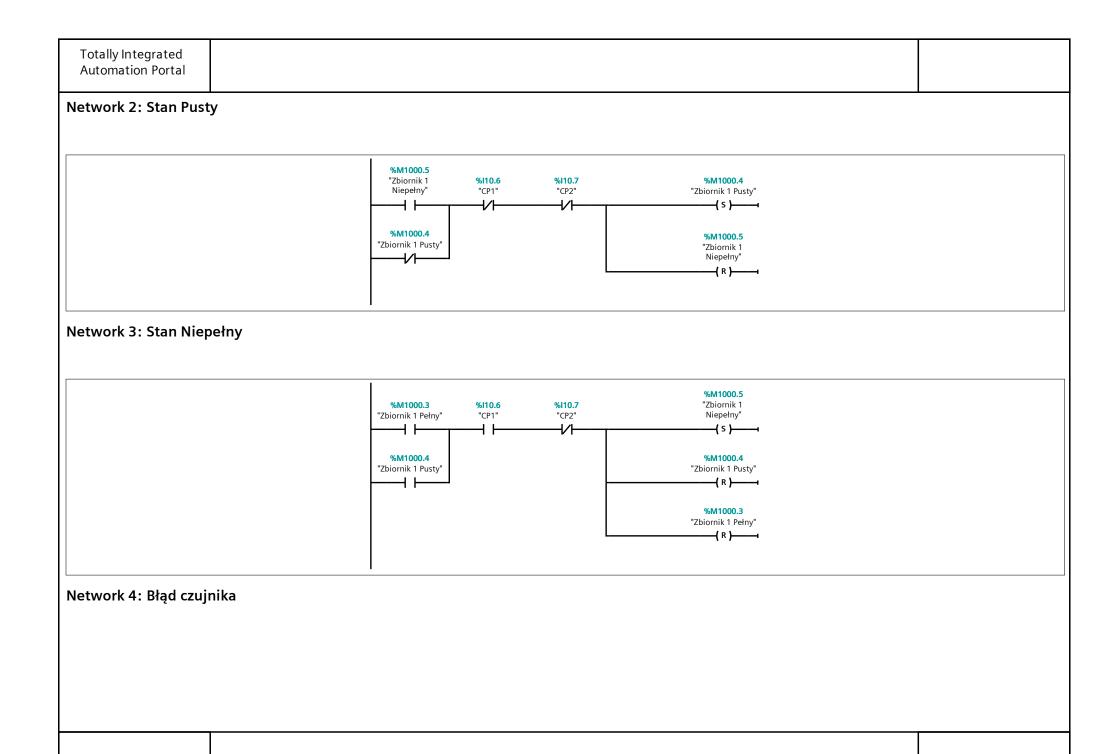
Zbiornik1 - Stany [FC17]

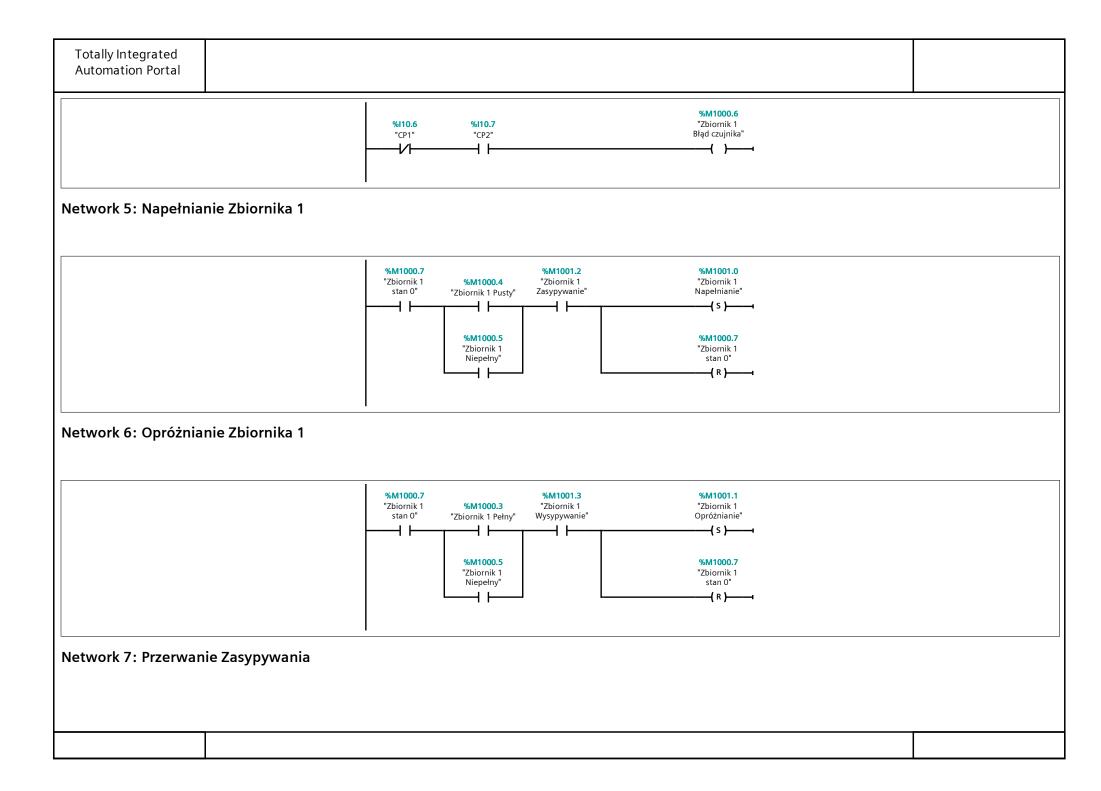
| Zbiornik1 - Stany Properties | | | | | | | | | | | |
|------------------------------|-------------------|-----------------|----|---------|----|----------|-----|--|--|--|--|
| General | | | | | | | | | | | |
| Name | Zbiornik1 - Stany | Number | 17 | Type | FC | Language | LAD | | | | |
| Numbering | Automatic | | | | | | | | | | |
| Information | | | | | | | | | | | |
| Title | | Author | | Comment | | Family | | | | | |
| Version | 0.1 | User-defined ID | | | | | | | | | |

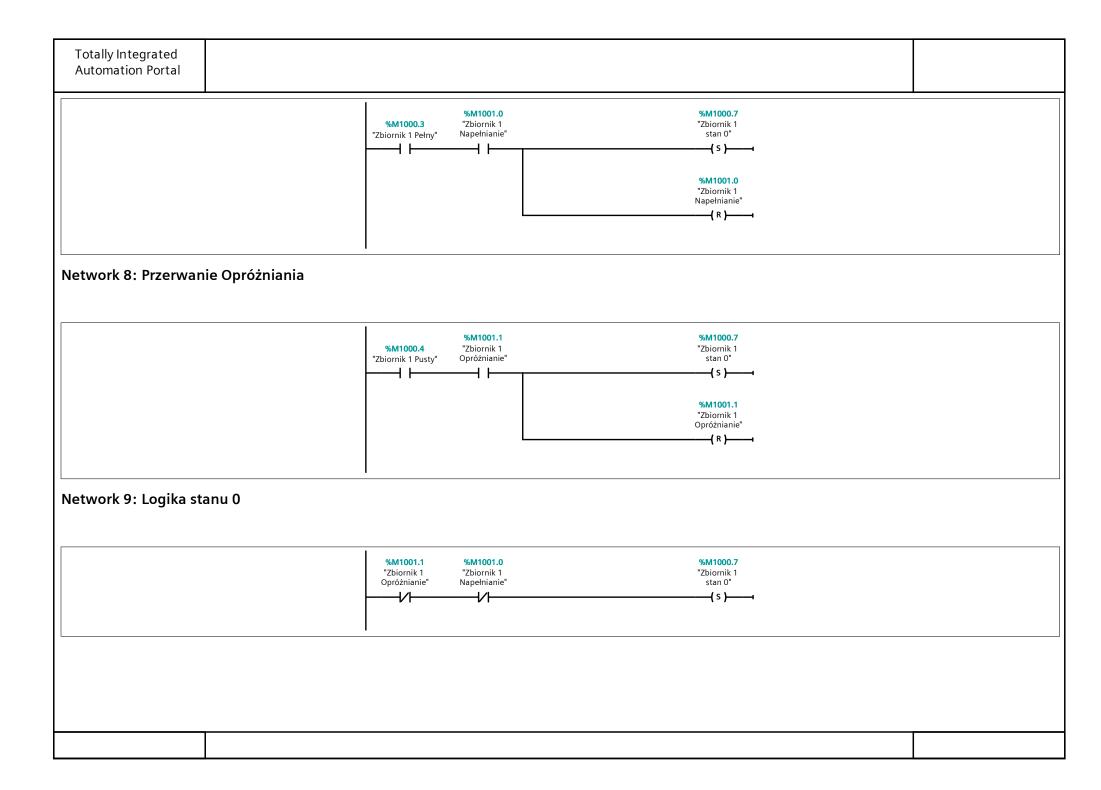
| Name | Data type | Default value |
|-------------------|-----------|---------------|
| Input | | |
| Output | | |
| InOut | | |
| Temp | | |
| Constant | | |
| ▼ Return | | |
| Zbiornik1 - Stany | Void | |

Network 1: Stan Pełny

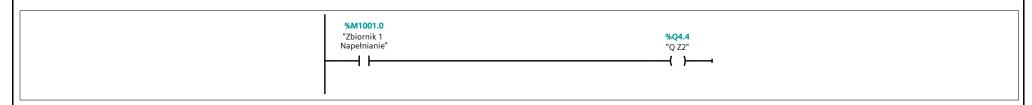








| T.4. II. I.4 | 41 | | | | | | | | |
|------------------|----------------------|-----------------|----|---------|---------|----|---------------|----------|-----|
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| Automatio | TTOITUI | | | | | | | | |
| | | | | | | | | | |
| Program | blocks | | | | | | | | |
| | | | | | | | | | |
| Zbiornik 1 | - Wyjścia [FC19] | | | | | | | | |
| 71 | odfoto Donos codico | | | | | | | | |
| General | yjścia Properties | | | | | | | | |
| Name | Zbiornik 1 - Wyjścia | Number | 19 | | Туре | FC | | Language | LAD |
| Numbering | Automatic | Number | 19 | | Туре | FC | | Language | LAU |
| Information | ratomatic | | | | | | | | |
| Title | | Author | | | Comment | | | Family | |
| Version | 0.1 | User-defined ID | | | | : | | | |
| Name | | | | Data ty | pe | | Default value | | |
| Input | | | | | • | | | | |
| Output | | | | | | | | | |
| InOut | | | | | | | | | |
| | | | | | | | | | |
| Temp | | | | | | | | | |
| Temp Constant | | | | | | | | | |
| | | | | | | | | | |



Network 2:

| Totally Integrated Automation Portal | | | |
|---|-----------------------------------|-----------------|--|
| | %M1001.1 "Zbiornik 1 Opróżnianie" | %Q4.3 "Q Z1" | |
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| Totally Integrated Automation Portal | | |
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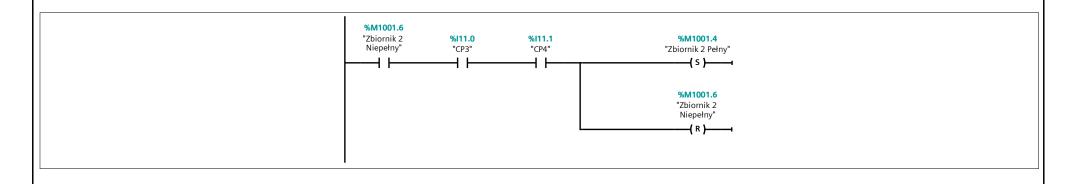
Program blocks

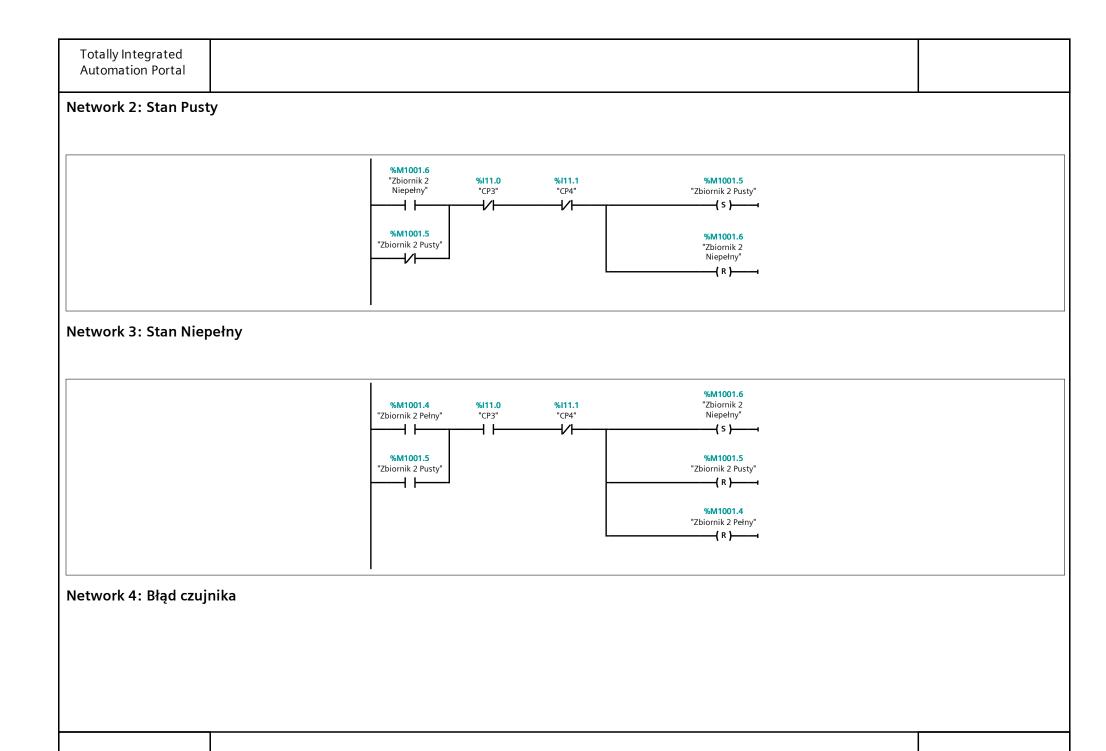
Zbiornik 2 - Stany [FC18]

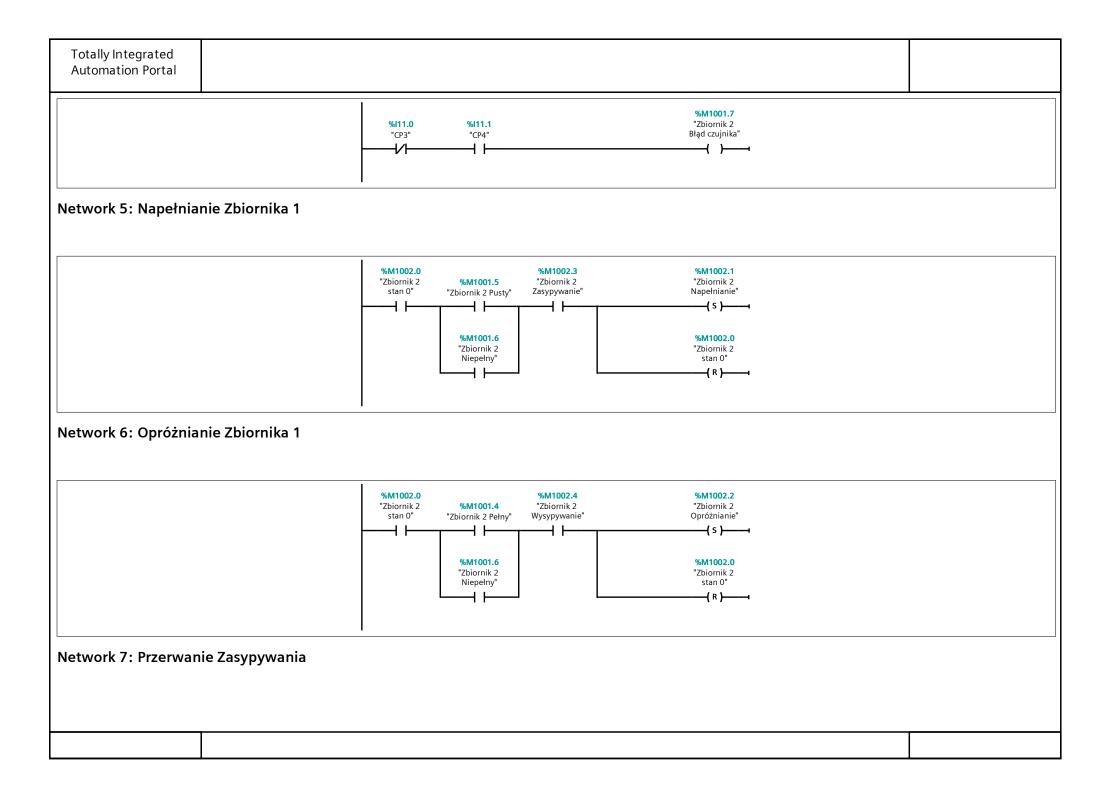
| Zbiornik 2 - Stany Properties | | | | | | | | | | |
|-------------------------------|--------------------|-----------------|----|---------|----|----------|-----|--|--|--|
| General | | | | | | | | | | |
| Name | Zbiornik 2 - Stany | Number | 18 | Туре | FC | Language | LAD | | | |
| Numbering | Automatic | | | | | | | | | |
| Information | | | | | | | | | | |
| Title | | Author | | Comment | | Family | | | | |
| Version | 0.1 | User-defined ID | | | · | | | | | |

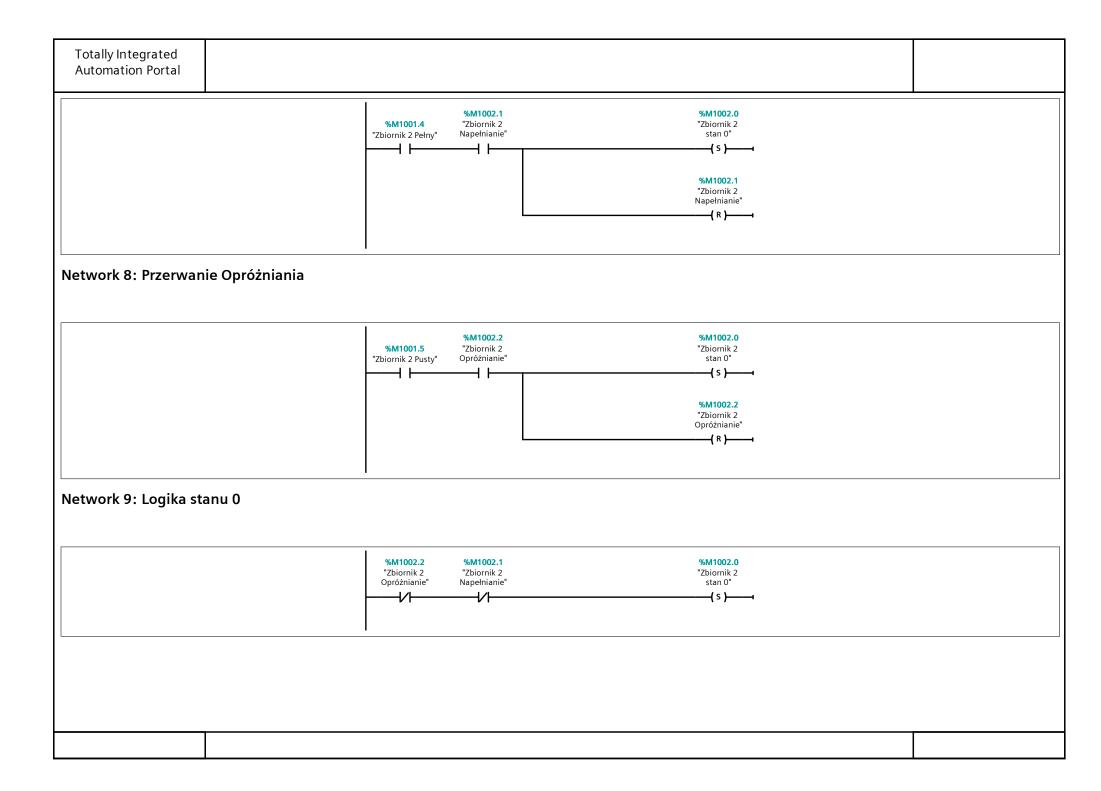
| Name | Data type | Default value | |
|--------------------|-----------|---------------|--|
| Input | | | |
| Output | | | |
| InOut | | | |
| Temp | | | |
| Constant | | | |
| ▼ Return | | | |
| Zbiornik 2 - Stany | Void | | |

Network 1: Stan Pełny









| Totally Integ Automation | | | | | | | | | |
|-----------------------------|----------------------------|-----------------|----------------------------|----------|---------|-----|--------------------------|----------|-----|
| Program Zbiornik 2 | blocks - Wyjścia [FC22] | | | | | | | | |
| | | | | | | | | | |
| Zbiornik 2 - Wy General | iscia Properties | | | | | | | | |
| Name | Zbiornik 2 - Wyjścia | Number | 22 | | Туре | FC | | Language | LAD |
| Numbering | Automatic | Number | 22 | | Туре | ı C | | Language | שו |
| Information | , tatomatic | | | | | | | | |
| Title | | Author | | | Comment | | | Family | |
| Version | 0.1 | User-defined ID | | | | | | | |
| Name | | | | Data typ | • | | Default value | | |
| Input | | | | Data typ | е | | Delauit value | | |
| Output | | | | | | | | | |
| InOut | | | | | | | | | |
| Temp | | | | | | | | | |
| Constant | | | | | | | | | |
| ▼ Return | | | | | | | | | |
| | N 144 * 4 * 1 | | | \ | | | | | |
| Zbiornik z | 2 - Wyjścia | | | Void | | | | | |
| Network 1: | | | | | | | | | |
| | | "Zbio | 002.1 rnik 2 nianie" | | | | %Q4.6 "Q Z4" -{ }1 | | |
| Network 2: | | | | | | | | | |

| Totally Integrated Automation Portal | | | |
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| | %M1002.2 "Zbiornik 2 Opróżnianie" | %Q4.5 "Q Z3" —-{ | |
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| Totally Inte Automatio | egrated n Portal | | | | | | | | |
|---------------------------|---------------------|------------------------|---------------------------------------|---------|----------|----|---------------|-------------|-----|
| Program | blocks | | | | | | | | |
| | gazynowania [FC25 | 5] | | | | | | | |
| Stany magazy | nowania Properties | | | | | | | | |
| General | | | | | | | | | |
| Name | Stany magazynowania | Number | 25 | | Туре | FC | | Language | LAD |
| Numbering | Automatic | | | | | | | | |
| Information | | a a | | | 1 | | | - •• | |
| Title | 0.1 | Author User-defined ID | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | Comment | | | Family | |
| Version | 0.1 | User-defined ID | 1 | | | | | | |
| Name | | | | Data ty | pe | | Default value | | |
| Input | | | | | | | | | |
| Output | | | | | | | | | |
| InOut | | | | | | | | | |
| Temp | | | | | | | | | |
| Constant | | | | | | | | | |
| ▼ Return | | | | | | | | | |
| Stany n | nagazynowania | | | Void | | | | | |
| Network 1: | | | | | | | | | |
| | | | | | | | | | |
| | | | %FC17 "Zbiornik1 - Stany" | | | | | | |
| | | — EN | E | мо ——— | | | | | |
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| Network 2: | | | | | | | | | |
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| Totally Integrated Automation Portal | | |
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| | #FC19 "Zbiornik1 - Wyjścia" — EN ENO | |
| Network 3: | | |
| | "Zbiornik 2 - Stany" — EN ENO | |
| Network 4: | | |
| | %FC22 "Zbiornik 2 - Wyjścia" — EN ENO | |
| Network 5: | | |
| | %FC16 "Transport" — EN ENO | |
| Network 6: | | |
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| Totally Integrated Automation Portal | | |
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| Automation Fortal | | |
| | #Przesypywanie z 1 do 2 zbiornika" EN EN | |
| Network 7: | | |
| | %FC21 "Przesypywanie z 2 do 1 zbiornika" — EN ENO | |
| Network 8: | | |
| | %FC23 "Opróżnianie Całego stanowiska" — EN ENO | |
| | | |
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| Automation Program Hardware | | | | | | | | | |
|-----------------------------|--------------------|-----------------|----|-----------|---------|----|---------------|----------|-----|
| Hardware inter | rupt Properties | | | | | | | | |
| General | | | | | | | | | |
| Name | Hardware interrupt | Number | 40 | - | Гуре | ОВ | | Language | LAD |
| Numbering | Automatic | | | | | | | | |
| Information | | | | | | | | | |
| Title | | Author | | | Comment | | | Family | |
| Version | 0.1 | User-defined ID | | | | | | | |
| Name | | | | Data type | | | Default value | | |
| ▼ Input | | | | | | | | | |
| LADDR | | | L | HW_IO | | | | | |
| USI | | | | Word | | | | | |
| IChannel | | | | USInt | | | | | |
| EventTyp | | | | Byte | | | | | |
| PointAdd | | | | DWord | | | | | |
| Temp | I | | | DVVOIG | | | | | |
| | | | | | | | | | |
| Constant Network 1: | | | | | | | | | |
| | | | | | | | | | |
| %M600.0 "AWARIA" | | | | | | | | | |
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PID_Temp [FB1132]

| PID_Temp Prope | ID_Temp Properties | | | | | | |
|----------------|---|-----------------|----------|---------|----|----------|---------|
| General | | | | | | | |
| Name | PID_Temp | Number | 1132 | Туре | FB | Language | SCL |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | Compact Temperature Controller with Self-Tuning | Author | SIMATIC | Comment | | Family | COMPPID |
| Version | 1.1 | User-defined ID | PID_Temp | | | | |

| Name | Data type | Default value | Retain |
|-----------------|-----------|---------------|------------|
| ▼ Input | | | |
| Setpoint | Real | 0.0 | Non-retain |
| Input | Real | 0.0 | Non-retain |
| Input_PER | Int | 0 | Non-retain |
| Disturbance | Real | 0.0 | Non-retain |
| ManualEnable | Bool | false | Non-retain |
| ManualValue | Real | 0.0 | Non-retain |
| ErrorAck | Bool | false | Non-retain |
| Reset | Bool | false | Non-retain |
| ModeActivate | Bool | false | Non-retain |
| ▼ Output | | | |
| ScaledInput | Real | 0.0 | Non-retain |
| OutputHeat | Real | 0.0 | Non-retain |
| OutputCool | Real | 0.0 | Non-retain |
| OutputHeat_PER | Int | 0 | Non-retain |
| OutputCool_PER | Int | 0 | Non-retain |
| OutputHeat_PWM | Bool | false | Non-retain |
| OutputCool_PWM | Bool | false | Non-retain |
| SetpointLimit_H | Bool | false | Non-retain |
| SetpointLimit_L | Bool | false | Non-retain |
| InputWarning_H | Bool | false | Non-retain |

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| <u> </u> | | | • |
|-----------------------------|-----------|----------------|------------|
| Name | Data type | Default value | Retain |
| InputWarning_L | Bool | false | Non-retain |
| State | Int | 0 | Non-retain |
| Error | Bool | false | Non-retain |
| ErrorBits | DWord | 16#0 | Retain |
| ▼ InOut | | | |
| Mode | Int | 4 | Retain |
| Master | DWord | 16#0 | Non-retain |
| Slave | DWord | 16#0 | Non-retain |
| ▼ Static | | | |
| Internal Diagnostic | DWord | 0 | Non-retain |
| Internal Version | DWord | DW#16#02010003 | Non-retain |
| InternalRTVersion | DWord | 0 | Non-retain |
| IntegralResetMode | Int | 4 | Non-retain |
| OverwriteInitialOutputValue | Real | 0.0 | Non-retain |
| RunModeByStartup | Bool | true | Non-retain |
| LoadBackUp | Bool | false | Non-retain |
| SetSubstituteOutput | Bool | true | Non-retain |
| PhysicalUnit | Int | 0 | Non-retain |
| PhysicalQuantity | Int | 1 | Non-retain |
| ActivateRecoverMode | Bool | true | Non-retain |
| Warning | DWord | 16#0 | Retain |
| WarningInternal | DWord | 16#0 | Retain |
| Progress | Real | 0.0 | Non-retain |
| CurrentSetpoint | Real | 0.0 | Non-retain |
| CancelTuningLevel | Real | 10.0 | Non-retain |
| SubstituteOutput | Real | 0.0 | Non-retain |
| PidOutputSum | Real | 0.0 | Non-retain |
| PidOutputOffsetHeat | Real | 0.0 | Non-retain |
| PidOutputOffsetCool | Real | 0.0 | Non-retain |
| SubstituteSetpointOn | Bool | false | Non-retain |
| SubstituteSetpoint | Real | 0.0 | Non-retain |
| DisableCooling | Bool | false | Non-retain |
| AllSlaveAutomaticState | Bool | true | Non-retain |

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| Automation Portal |

| Name | Data type De | efault value | Retain |
|---------------------------|------------------------------------|--------------|------------|
| NoSlaveSubstituteSetpoint | Bool tru | ie | Non-retain |
| Heat | PID_TempBasicOutputData | | Non-retain |
| Cool | PID_TempBasicOutputData | | Non-retain |
| Config | PID_TempConfig | | Non-retain |
| CycleTime | PID_CycleTime | | Non-retain |
| CtrlParamsBackUp | PID_TempControlParam- sHeatCool | | Non-retain |
| PIDSelfTune | PID_TempSelfTune | | Non-retain |
| PIDCtrl | PID_TempControl | | Non-retain |
| Retain | PID_TempRetain | | Retain |

| | | Totally Integrated Automation Portal | |
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IEC_Timer_0_DB_1 [DB11]

| IEC_Timer_0_D | EC_Timer_0_DB_1 Properties | | | | | | | |
|---------------|----------------------------|-----------------|---------|---------|----|----------|-----|--|
| General | | | | | | | | |
| Name | IEC_Timer_0_DB_1 | Number | 11 | Type | DB | Language | DB | |
| Numbering | Automatic | | | | | | | |
| Information | Information | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC | |
| Version | 1.0 | User-defined ID | IEC TMR | | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| PT | Time | T#0ms | False |
| ET | Time | T#0ms | False |
| IN | Bool | false | False |
| Q | Bool | false | False |

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IEC_Timer_0_DB_2 [DB13]

| IEC_Timer_0_DB_2 Properties | | | | | | | | | |
|-----------------------------|------------------|-----------------|---------|---------|----|----------|-----|--|--|
| General | | | | | | | | | |
| Name | IEC_Timer_0_DB_2 | Number | 13 | Туре | DB | Language | DB | | |
| Numbering | Automatic | | | | | | | | |
| Information | Information | | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC | | |
| Version | 1.0 | User-defined ID | IEC_TMR | | | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| PT | Time | T#0ms | False |
| ET | Time | T#0ms | False |
| IN | Bool | false | False |
| Q | Bool | false | False |

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IEC_Counter_0_DB_2 [DB12]

| IEC_Counter_0 | IEC_Counter_0_DB_2 Properties | | | | | | | | | |
|---------------|-------------------------------|-----------------|---------|---------|----|----------|-----|--|--|--|
| General | General | | | | | | | | | |
| Name | IEC_Counter_0_DB_2 | Number | 12 | Туре | DB | Language | DB | | | |
| Numbering | Automatic | | | | | | | | | |
| Information | Information | | | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC | | | |
| Version | 1.0 | User-defined ID | CNTR | | | | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| CU | Bool | false | True |
| CD | Bool | false | True |
| R | Bool | false | True |
| LD | Bool | false | True |
| QU | Bool | false | True |
| QD | Bool | false | True |
| PV | Int | 0 | True |
| CV | Int | 0 | True |

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IEC_Counter_0_DB_3 [DB14]

| IEC_Counter_0 | IEC_Counter_0_DB_3 Properties | | | | | | | | | |
|---------------|-------------------------------|-----------------|---------|---------|----|----------|-----|--|--|--|
| General | General | | | | | | | | | |
| Name | IEC_Counter_0_DB_3 | Number | 14 | Туре | DB | Language | DB | | | |
| Numbering | Automatic | | | | | | | | | |
| Information | Information | | | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC | | | |
| Version | 1.0 | User-defined ID | CNTR | | | | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| CU | Bool | false | True |
| CD | Bool | false | True |
| R | Bool | false | True |
| LD | Bool | false | True |
| QU | Bool | false | True |
| QD | Bool | false | True |
| PV | Int | 0 | True |
| CV | Int | 0 | True |

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IEC_Counter_0_DB_4 [DB10]

| IEC_Counter_0 | IEC_Counter_0_DB_4 Properties | | | | | | | | | |
|---------------|-------------------------------|-----------------|---------|---------|----|----------|-----|--|--|--|
| General | General | | | | | | | | | |
| Name | IEC_Counter_0_DB_4 | Number | 10 | Type | DB | Language | DB | | | |
| Numbering | Automatic | | | | | | | | | |
| Information | Information | | | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC | | | |
| Version | 1.0 | User-defined ID | CNTR | | | | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| CU | Bool | false | True |
| CD | Bool | false | True |
| R | Bool | false | True |
| LD | Bool | false | True |
| QU | Bool | false | True |
| QD | Bool | false | True |
| PV | Int | 0 | True |
| CV | Int | 0 | True |

IEC_Counter_0_DB_5 [DB15]

| IEC_Counter_0_DB_5 Properties | | | | | | | |
|-------------------------------|--------------------|-----------------|---------|---------|----|----------|-----|
| General | | | | | | | |
| Name | IEC_Counter_0_DB_5 | Number | 15 | Туре | DB | Language | DB |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC |
| Version | 1.0 | User-defined ID | CNTR | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| CU | Bool | false | True |
| CD | Bool | false | True |
| R | Bool | false | True |
| LD | Bool | false | True |
| QU | Bool | false | True |
| QD | Bool | false | True |
| PV | Int | 0 | True |
| CV | Int | 0 | True |

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IEC_Timer_0_DB [DB4]

| IEC_Timer_0_DB Properties | | | | | | | |
|---------------------------|----------------|-----------------|---------|---------|----|----------|-----|
| General | | | | | | | |
| Name | IEC_Timer_0_DB | Number | 4 | Type | DB | Language | DB |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC |
| Version | 1.0 | User-defined ID | IEC TMR | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| PT | Time | T#0ms | False |
| ET | Time | T#0ms | False |
| IN | Bool | false | False |
| Q | Bool | false | False |

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IEC_Timer_0_DB_3 [DB5]

| IEC_Timer_0_DB_3 Properties | | | | | | | |
|-----------------------------|------------------|-----------------|---------|---------|----|----------|-----|
| General | | | | | | | |
| Name | IEC_Timer_0_DB_3 | Number | 5 | Туре | DB | Language | DB |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC |
| Version | 1.0 | User-defined ID | IEC_TMR | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| PT | Time | T#0ms | False |
| ET | Time | T#0ms | False |
| IN | Bool | false | False |
| Q | Bool | false | False |

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IEC_Timer_0_DB_4 [DB7]

| IEC_Timer_0_DB | IEC_Timer_0_DB_4 Properties | | | | | | |
|----------------|-----------------------------|-----------------|---------|---------|----|----------|-----|
| General | | | | | | | |
| Name | IEC_Timer_0_DB_4 | Number | 7 | Туре | DB | Language | DB |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC |
| Version | 1.0 | User-defined ID | IEC_TMR | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| PT | Time | T#0ms | False |
| ET | Time | T#0ms | False |
| IN | Bool | false | False |
| Q | Bool | false | False |

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IEC_Timer_0_DB_5 [DB8]

| IEC_Timer_0_D | EC_Timer_0_DB_5 Properties | | | | | | |
|---------------|----------------------------|-----------------|---------|---------|----|----------|-----|
| General | | | | | | | |
| Name | IEC_Timer_0_DB_5 | Number | 8 | Туре | DB | Language | DB |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC |
| Version | 1.0 | User-defined ID | IEC_TMR | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| PT | Time | T#0ms | False |
| ET | Time | T#0ms | False |
| IN | Bool | false | False |
| Q | Bool | false | False |

| | Totally Integrated Automation Portal | tion Portal | |
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IEC_Timer_0_DB_6 [DB9]

| IEC_Timer_0_D | EC_Timer_0_DB_6 Properties | | | | | | |
|---------------|----------------------------|-----------------|---------|---------|----|----------|-----|
| General | | | | | | | |
| Name | IEC_Timer_0_DB_6 | Number | 9 | Type | DB | Language | DB |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC |
| Version | 1.0 | User-defined ID | IEC_TMR | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| PT | Time | T#0ms | False |
| ET | Time | T#0ms | False |
| IN | Bool | false | False |
| Q | Bool | false | False |

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IEC_Timer_0_DB_7 [DB16]

| IEC_Timer_0_DB | _O_DB_7 Properties | | | | | | |
|----------------|--|-----------------|---------|---------|----|----------|-----|
| General | General Control of the Control of th | | | | | | |
| Name | IEC_Timer_0_DB_7 | Number | 16 | Туре | DB | Language | DB |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC |
| Version | 1.0 | User-defined ID | IEC_TMR | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| PT | Time | T#0ms | False |
| ET | Time | T#0ms | False |
| IN | Bool | false | False |
| Q | Bool | false | False |

| | Totally Integrated Automation Portal | tion Portal | |
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IEC_Timer_0_DB_8 [DB17]

| IEC_Timer_0_D | EC_Timer_0_DB_8 Properties | | | | | | |
|---------------|----------------------------|-----------------|---------|---------|----|----------|-----|
| General | | | | | | | |
| Name | IEC_Timer_0_DB_8 | Number | 17 | Туре | DB | Language | DB |
| Numbering | Automatic | | | | | | |
| Information | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC |
| Version | 1.0 | User-defined ID | IEC_TMR | | - | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| PT | Time | T#0ms | False |
| ET | Time | T#0ms | False |
| IN | Bool | false | False |
| Q | Bool | false | False |

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IEC_Timer_0_DB_10 [DB19]

| IEC_Timer_0_DB_10 Properties | | | | | | | | |
|------------------------------|-------------------|-----------------|---------|---------|----|----------|-----|--|
| General | | | | | | | | |
| Name | IEC_Timer_0_DB_10 | Number | 19 | Туре | DB | Language | DB | |
| Numbering | Automatic | | | | | | | |
| Information | | | | | | | | |
| Title | | Author | Simatic | Comment | | Family | IEC | |
| Version | 1.0 | User-defined ID | IEC TMR | | | | | |

| Name | Data type | Start value | Retain |
|----------|-----------|-------------|--------|
| ▼ Static | | | |
| PT | Time | T#0ms | False |
| ET | Time | T#0ms | False |
| IN | Bool | false | False |
| Q | Bool | false | False |