

S7-1500\_ET200\_DT1

Program blocks

Main [OB1]

Main Properties

General

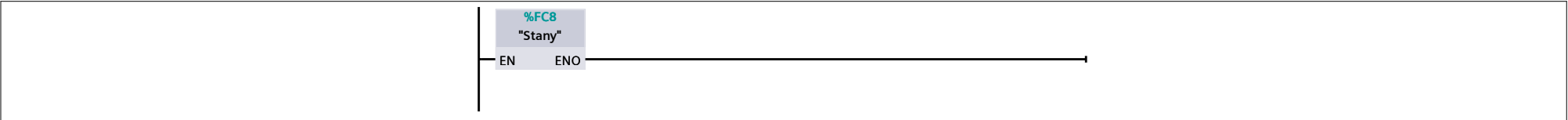
Name	Main	Number	1	Type	OB	Language	LAD
Numbering	Automatic						

Information

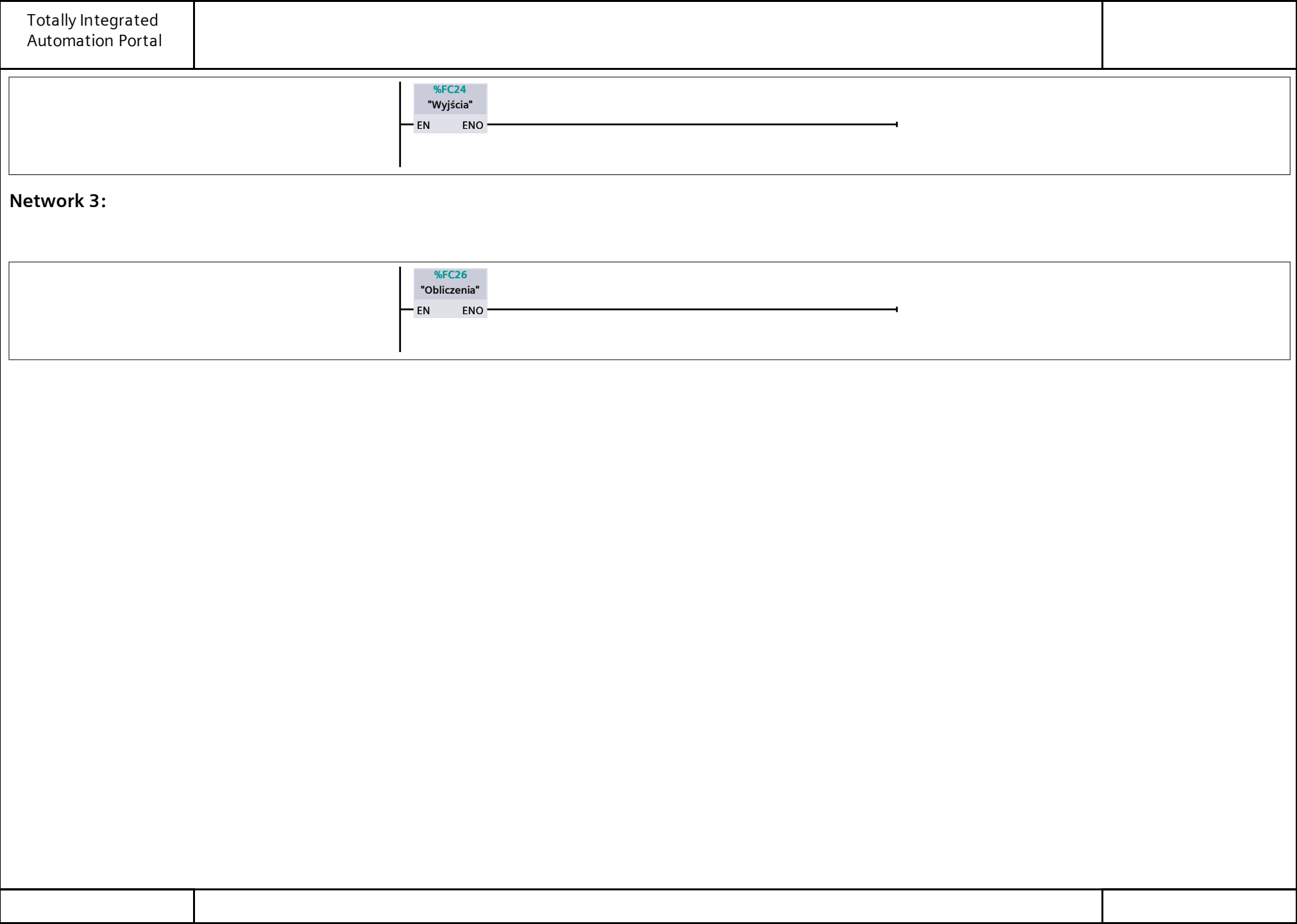
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value
▼ Input		
Initial_Call	Bool	
Remanence	Bool	
▼ Temp		
temperatura	Real	
Constant		

Network 1:



Network 2:



## Program blocks

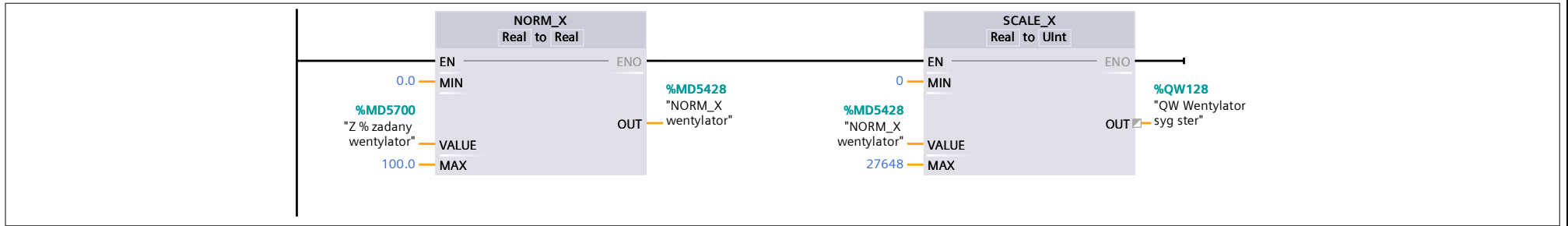
### Obliczenia WENTYLATOR [FC1]

Obliczenia WENTYLATOR Properties							
General							
Name	Obliczenia WENTYLATOR	Number	1	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		
Obliczenia WENTYLATOR	Void	

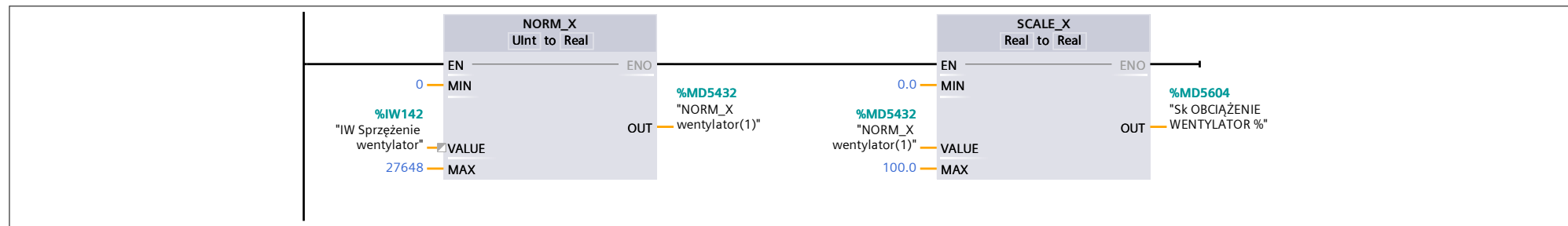
#### Network 1:

wentylator syg sterowania

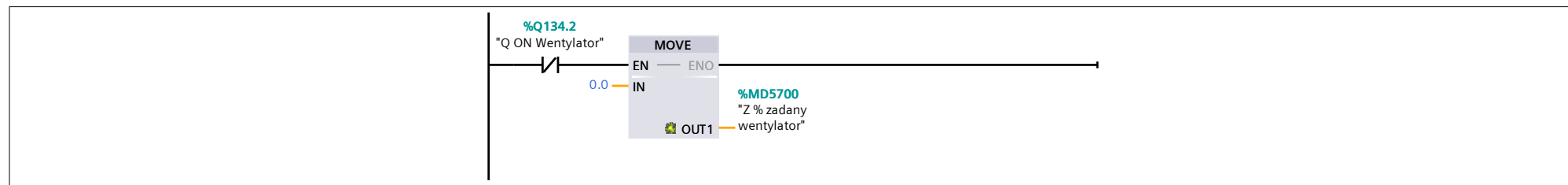


## Network 2: Odczyt wejścia analogowego

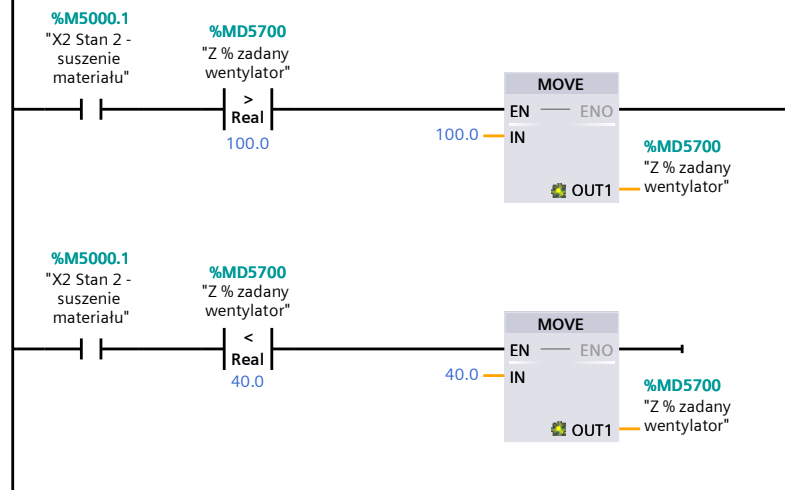
Normalizuję wartość na wejściu rozszerzenia (od 0 do 27648), a następnie przedstawiam ją jako wartość od 0-100 (jako procent obciążenia wentylatora)



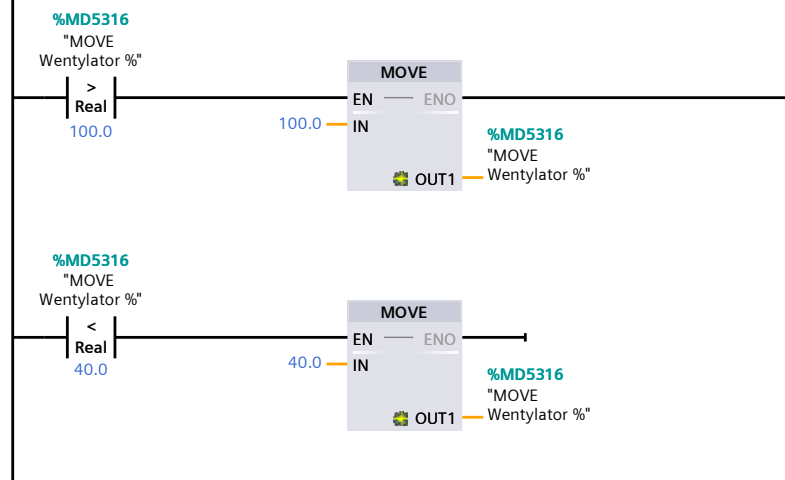
## Network 3:



## Network 4:



## Network 5: Ograniczenia wentylatora

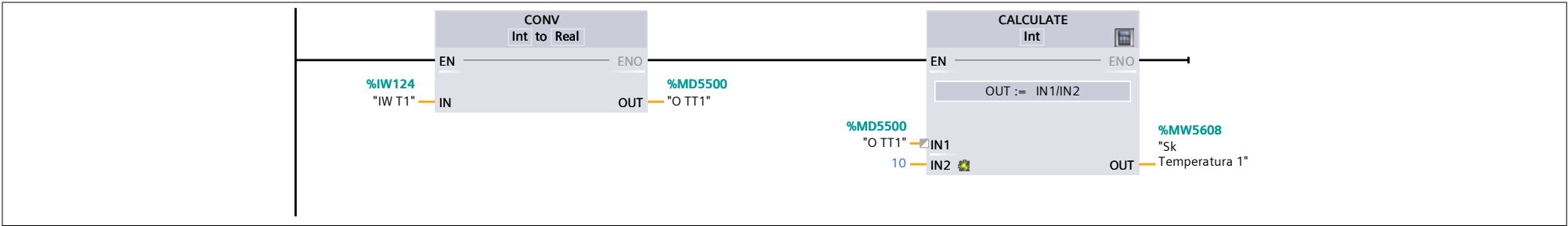


# Program blocks

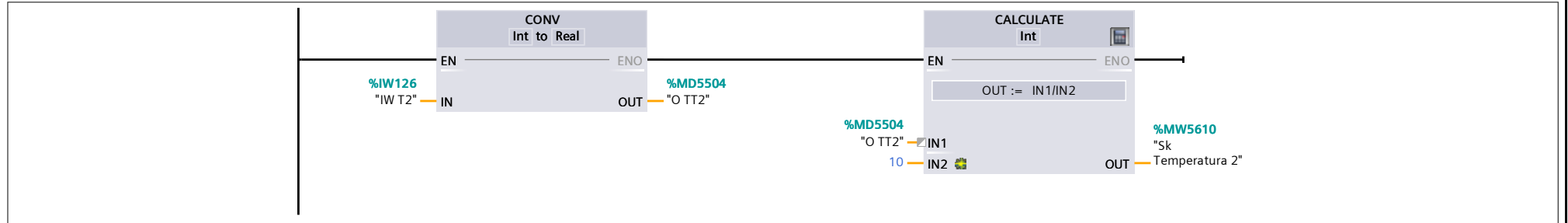
## Obliczenia Odczyt temperatury [FC2]

Obliczenia Odczyt temperatury Properties							
General							
Name	Obliczenia Odczyt tempera- tury	Number	2	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							
Obliczenia Odczyt temperatury			Void				

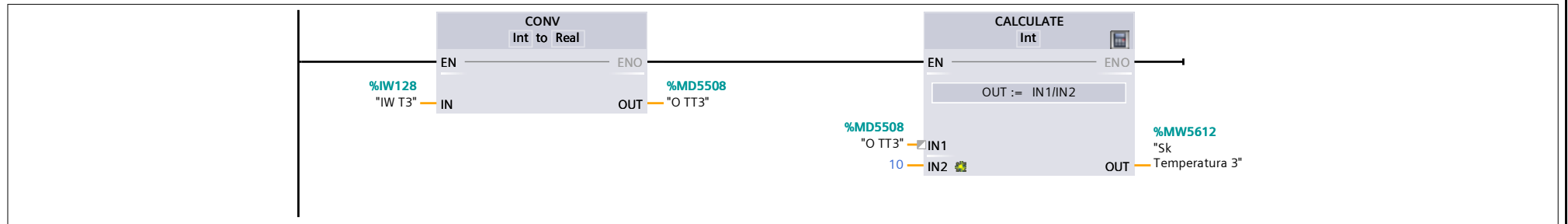
### Network 1:



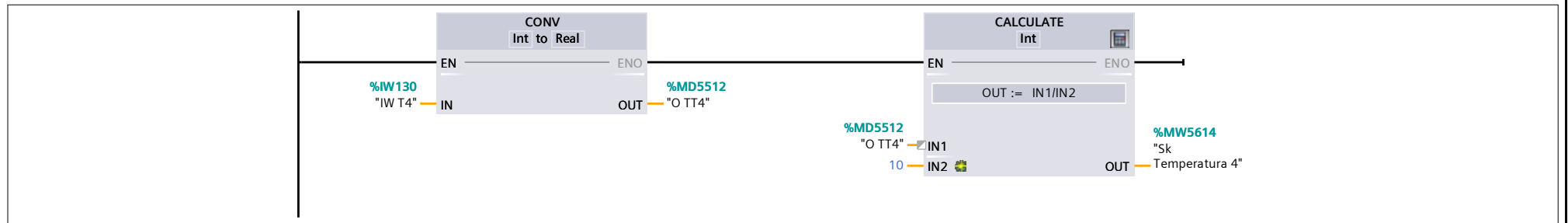
## Network 2:



## Network 3:

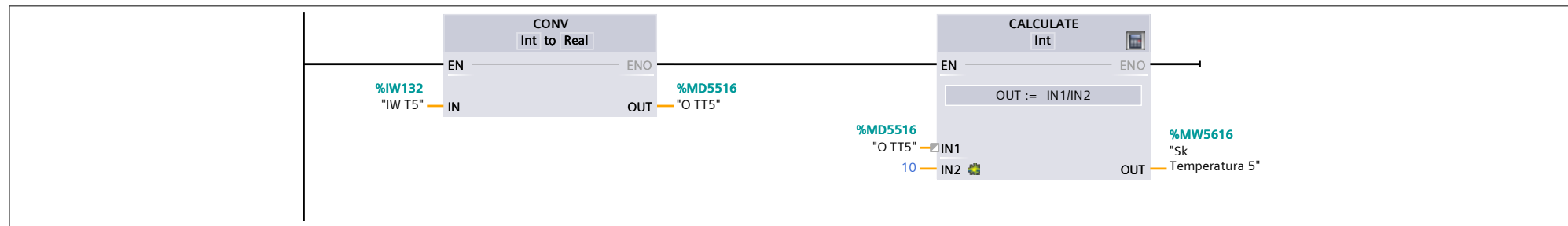


## Network 4:

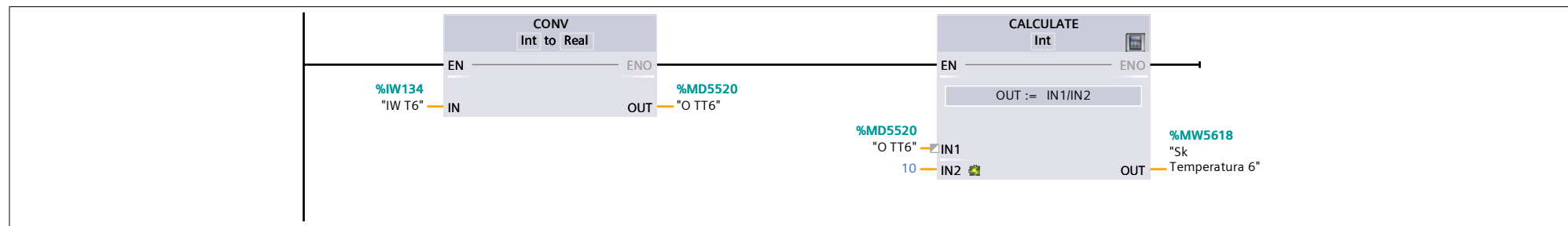




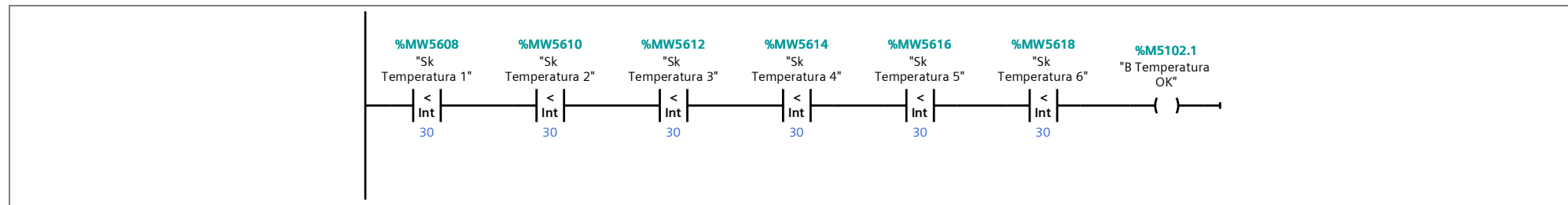
## Network 5:



## Network 6:



## Network 7: Sprawdzenie temperatury



Program blocks

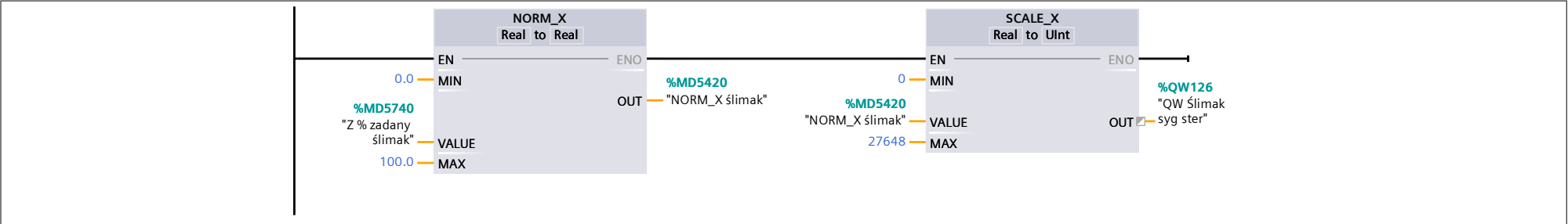
Obliczenia ŚLIMAK FALOWNIK [FC3]

Obliczenia ŚLIMAK FALOWNIK Properties							
General							
Name	Obliczenia ŚLIMAK FALOWNIK	Number	3	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		
Obliczenia ŚLIMAK FALOWNIK	Void	

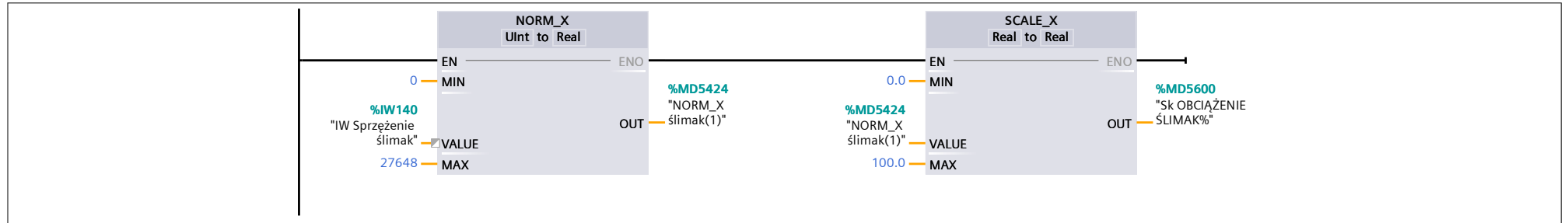
Network 1:

wentylator syg sterowania

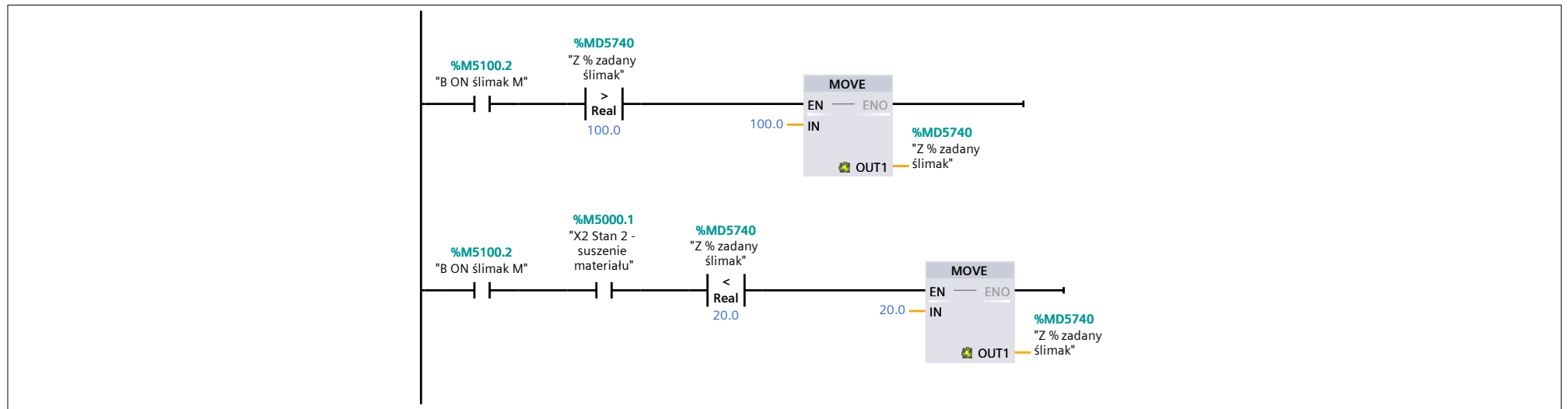


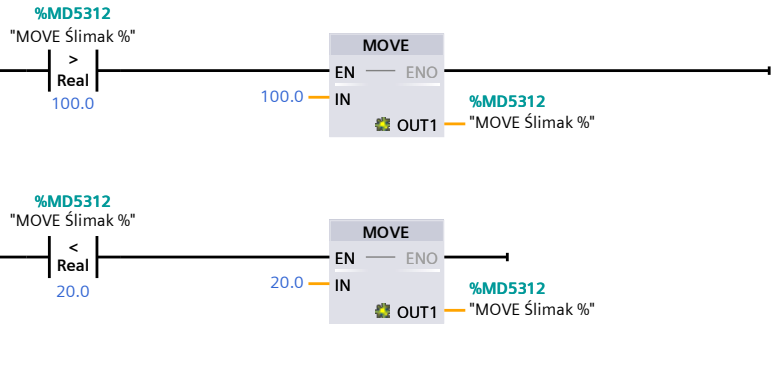
**Network 2: Odczyt wejścia analogowego**

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>

**Network 4:**



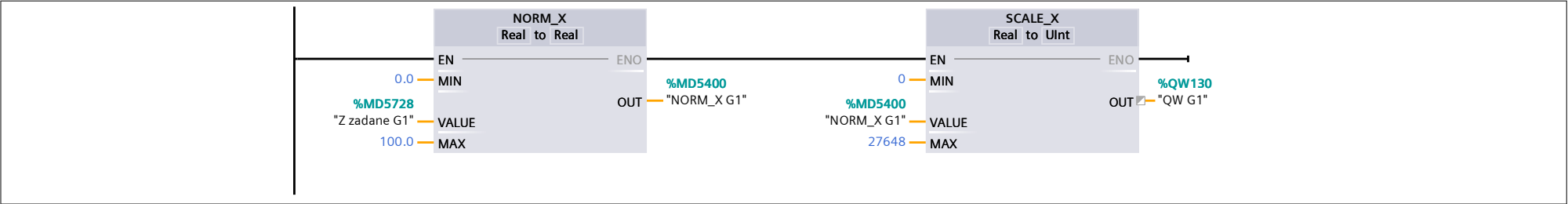
Program blocks

Obliczenia GRZAŁKI [FC5]

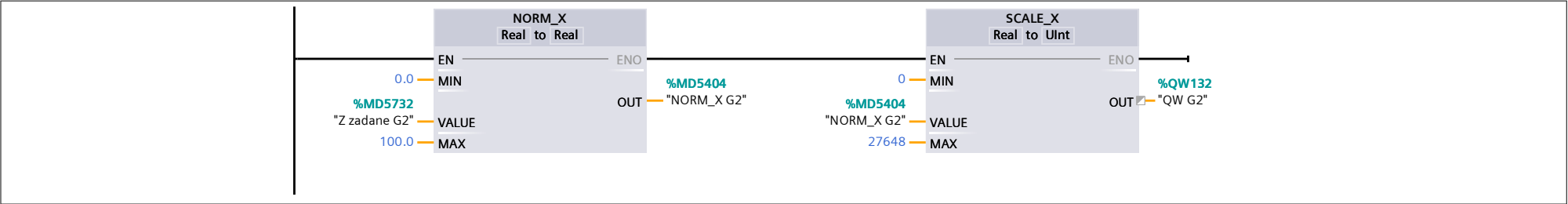
Obliczenia GRZAŁKI Properties							
General							
Name	Obliczenia GRZAŁKI	Number	5	Type	FC	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

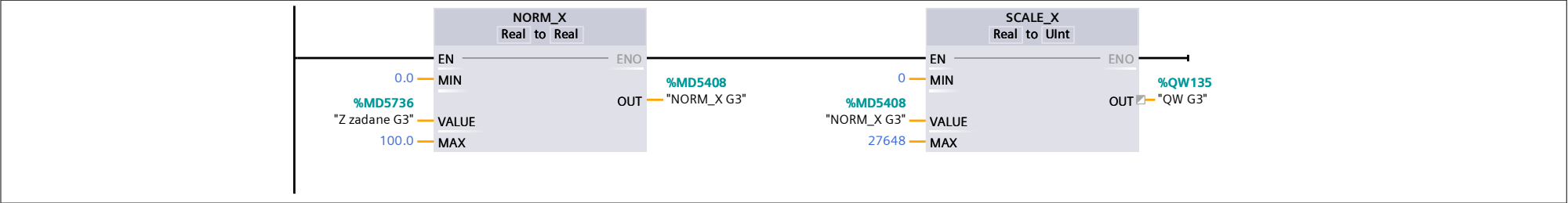
Network 1: Grzałka 1



Network 2: Grzałka 2



Network 3: Grzałka 3



Totally Integrated Automation Portal

Program blocks

Cyclic interrupt PID 2 [OB30]

Cyclic interrupt PID 2 Properties

General

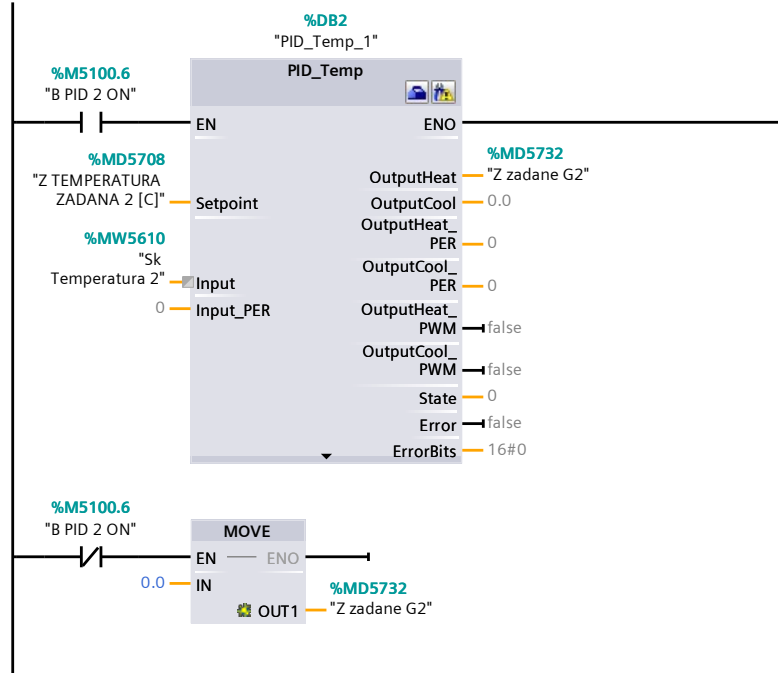
Name	Cyclic interrupt PID 2	Number	30	Type	OB	Language	LAD
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

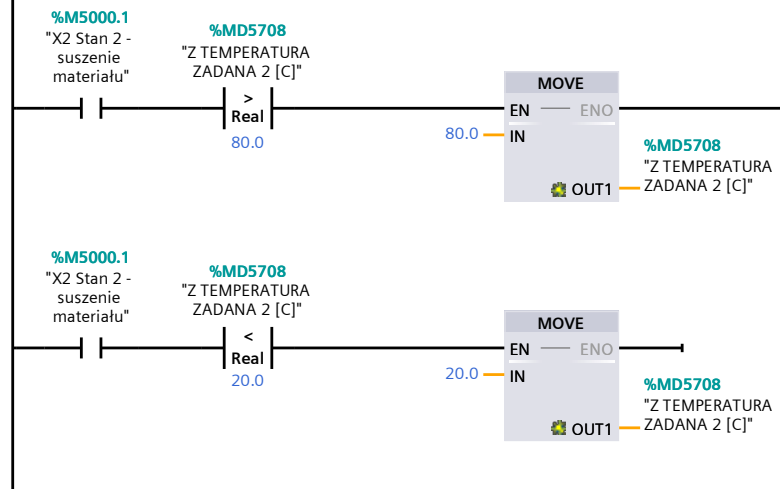
Name	Data type	Default value
▼ Input		
Initial_Call	Bool	
Event_Count	Int	
Temp		
Constant		

Network 1:

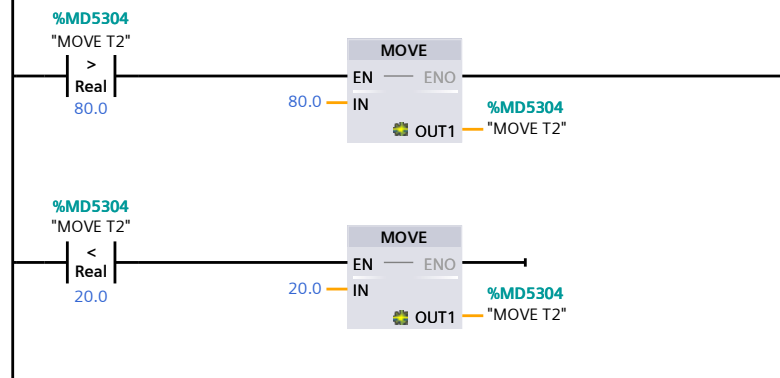


Network 2:

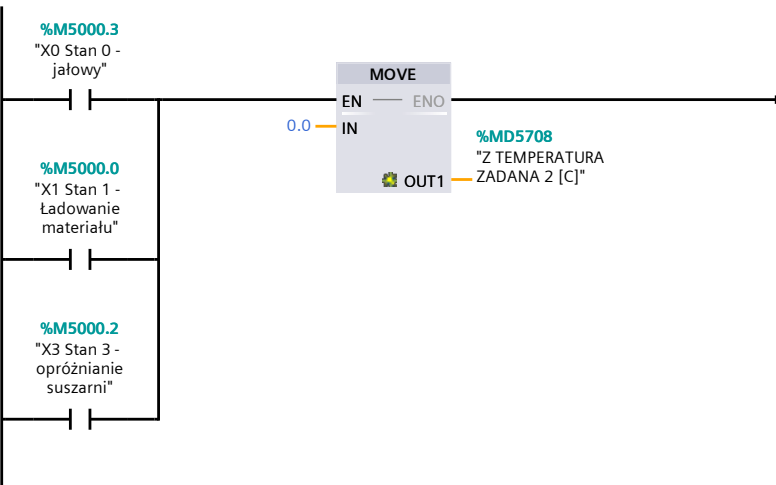




### Network 3:



### Network 4:



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Program blocks

Wyjścia Silników [FC6]

Wyjścia Silników Properties

General

Name	Wyjścia Silników	Number	6	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		
Wyjścia Silników	Void	

Network 1:

%M0.0  
"B Silnik 1 ON  
Kubetek"

%Q4.0  
"Q Silnik 1  
Kubetek"

Network 2:

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Totally Integrated Automation Portal		
	<div><div></div><div><div>%M0.1 "B Silnik 2 ON SKOS"</div><div></div><div>%Q4.1 "Q Silnik 2 SKOS"</div></div></div>	
Network 3:		
	<div><div></div><div><div>%M0.2 "B Silnik 3 ON Góra"</div><div></div><div>%Q4.2 "Q Silnik 3 Góra"</div></div></div>	

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## Program blocks

### Cyclic interrupt PID 1 [OB31]

Cyclic interrupt PID 1 Properties

General

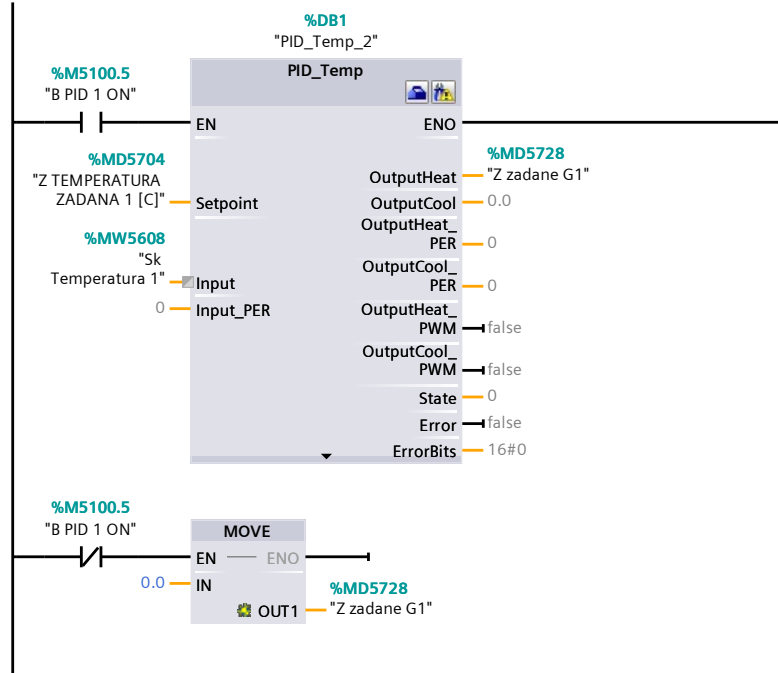
Name	Cyclic interrupt PID 1	Number	31	Type	OB	Language	LAD
Numbering	Automatic						

Information

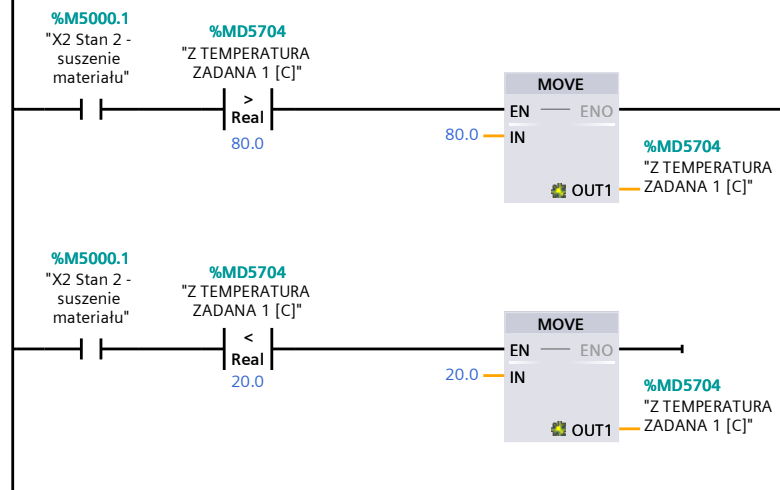
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

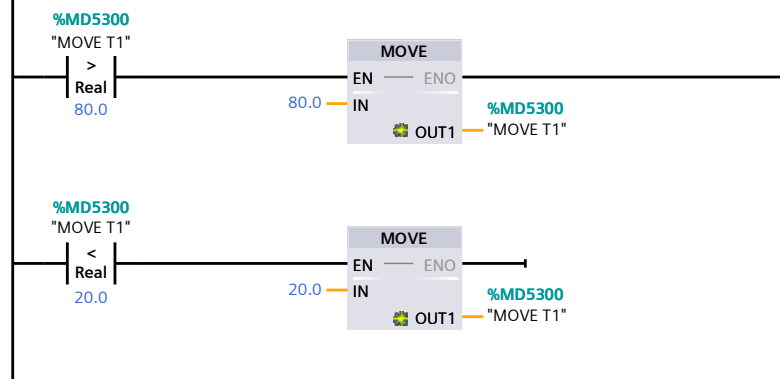
Network 1:



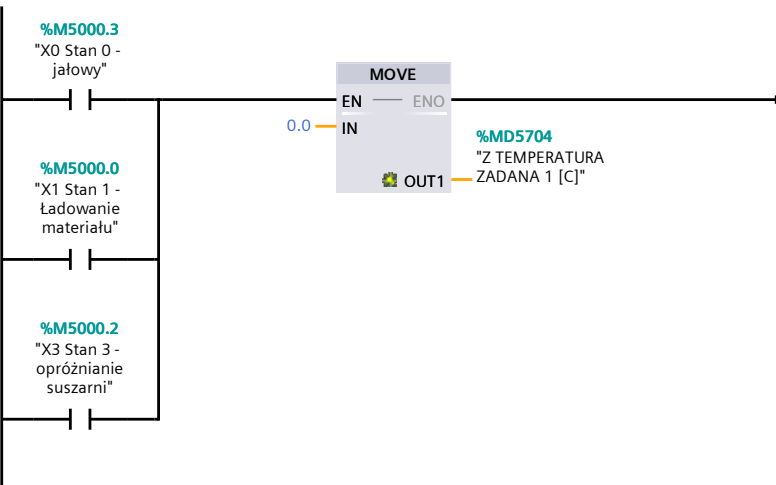
Network 2:



### Network 3:



### Network 4:





Totally Integrated Automation Portal

Program blocks

Cyclic interrupt PID 3 [OB32]

Cyclic interrupt PID 3 Properties

General

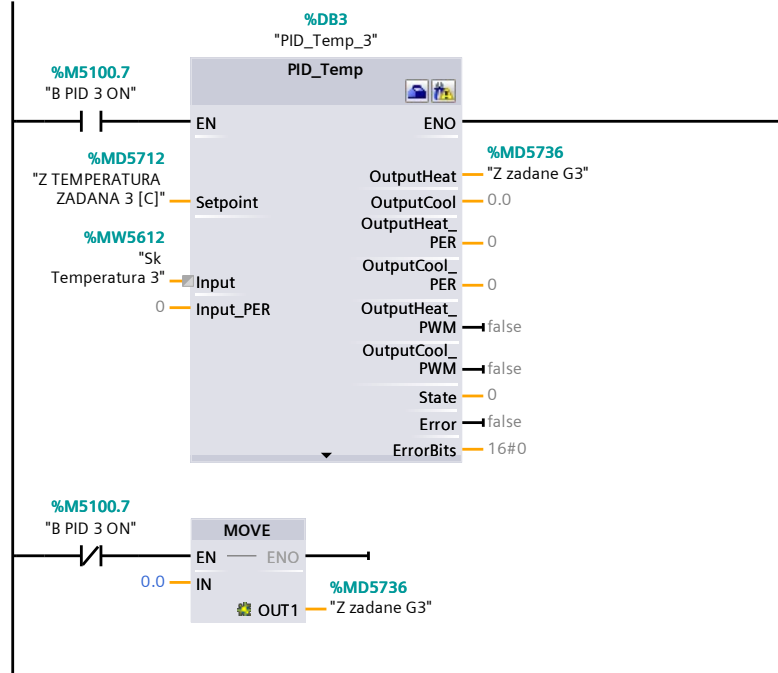
Name	Cyclic interrupt PID 3	Number	32	Type	OB	Language	LAD
Numbering	Automatic						

Information

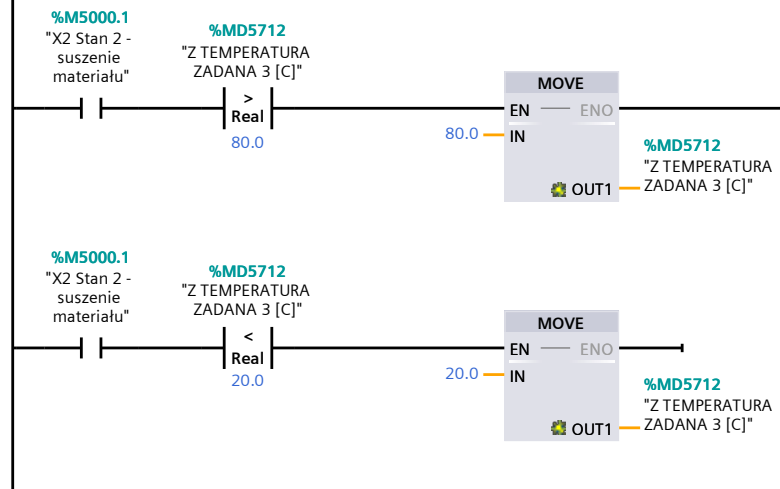
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

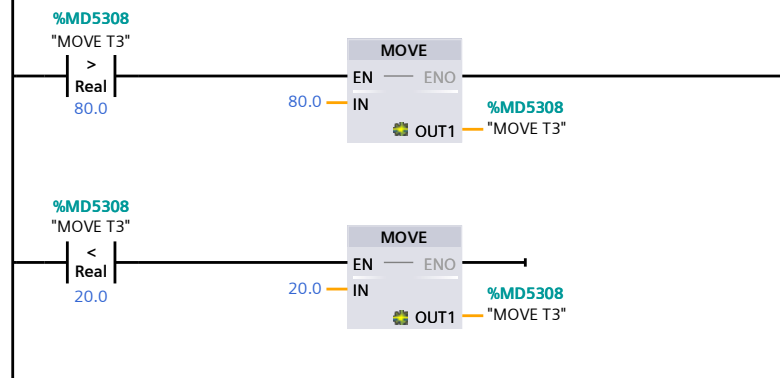
Network 1:



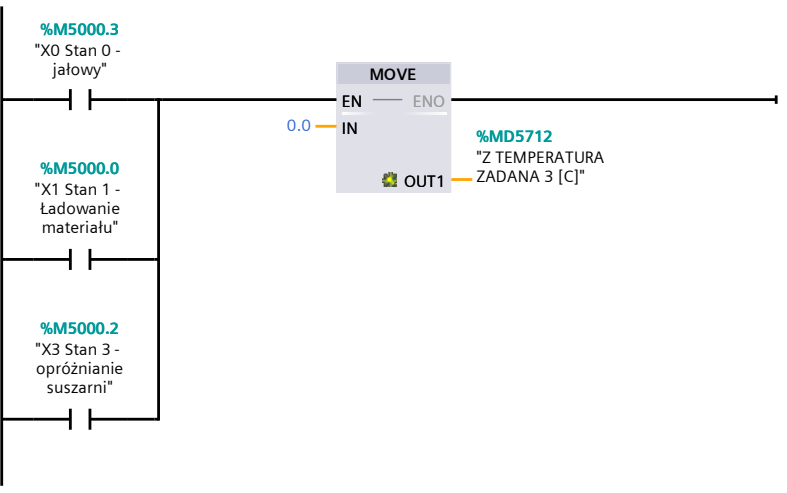
Network 2:



### Network 3:



### Network 4:



Totally Integrated Automation Portal		
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Program blocks

Wyjścia Zasuw [FC4]

Wyjścia Zasuw Properties

General

Name	Wyjścia Zasuw	Number	4	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		
Wyjścia Zasuw	Void	

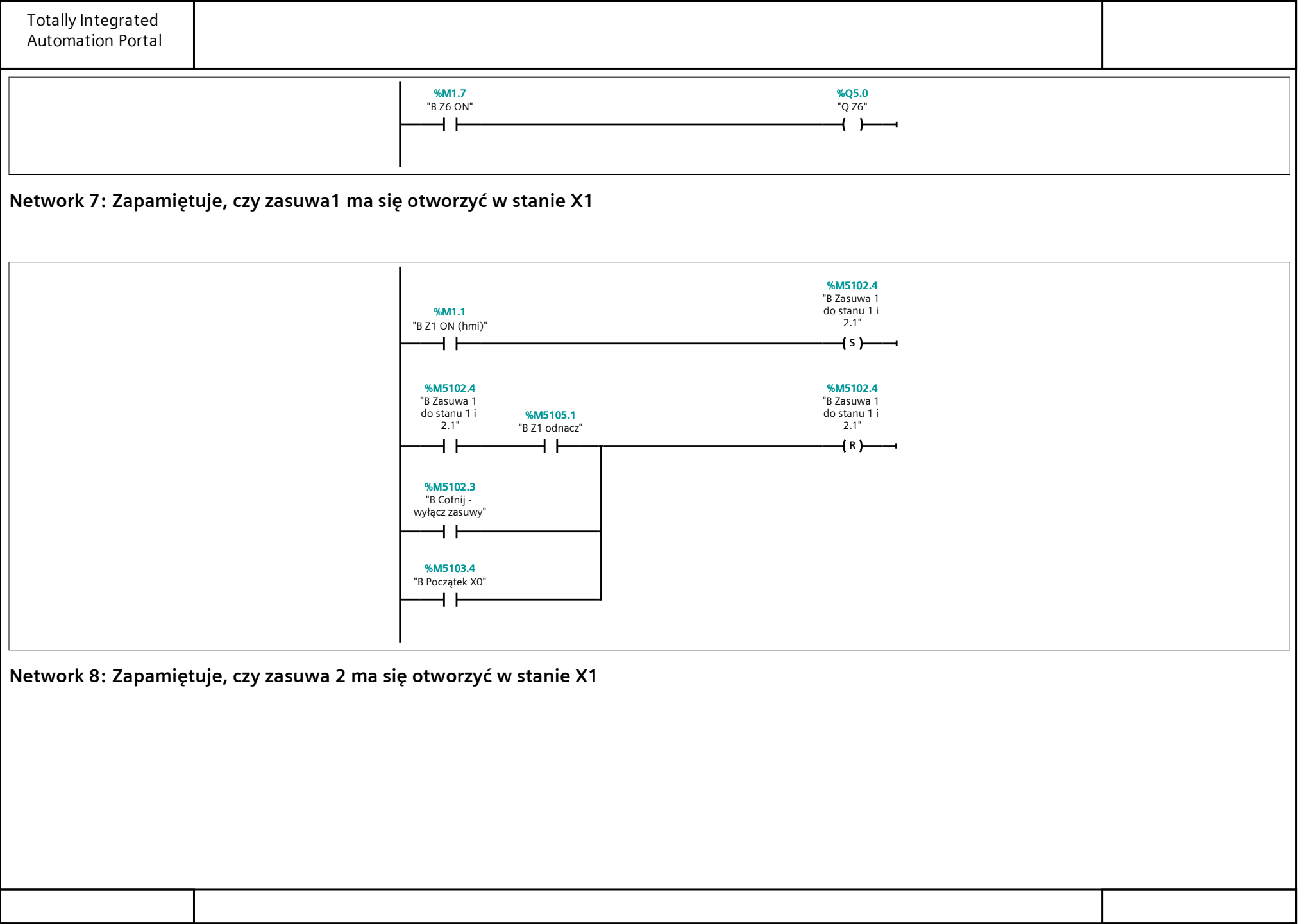
Network 1:

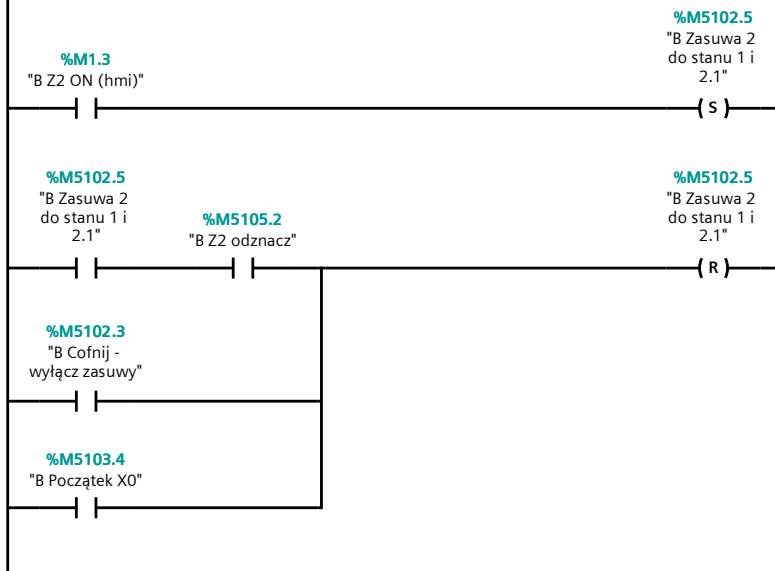
%M1.0  
"B Z1 ON"

%Q4.3  
"Q Z1"

Network 2:

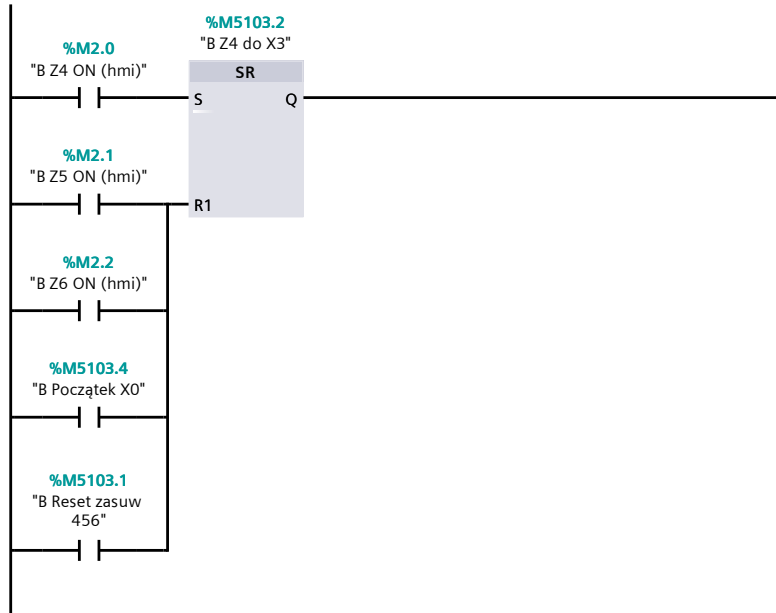
Totally Integrated Automation Portal		
	<div><div></div><div><div>%M1.2 "B Z2 ON"</div><div></div><div>%Q4.4 "Q Z2"</div></div></div>	
Network 3:		
	<div><div></div><div><div>%M1.4 "B Z3 ON"</div><div></div><div>%Q4.5 "Q Z3"</div></div></div>	
Network 4:		
	<div><div></div><div><div>%M1.5 "B Z4 ON"</div><div></div><div>%Q4.6 "Q Z4"</div></div></div>	
Network 5:		
	<div><div></div><div><div>%M1.6 "B Z5 ON"</div><div></div><div>%Q4.7 "Q Z5"</div></div></div>	
Network 6:		



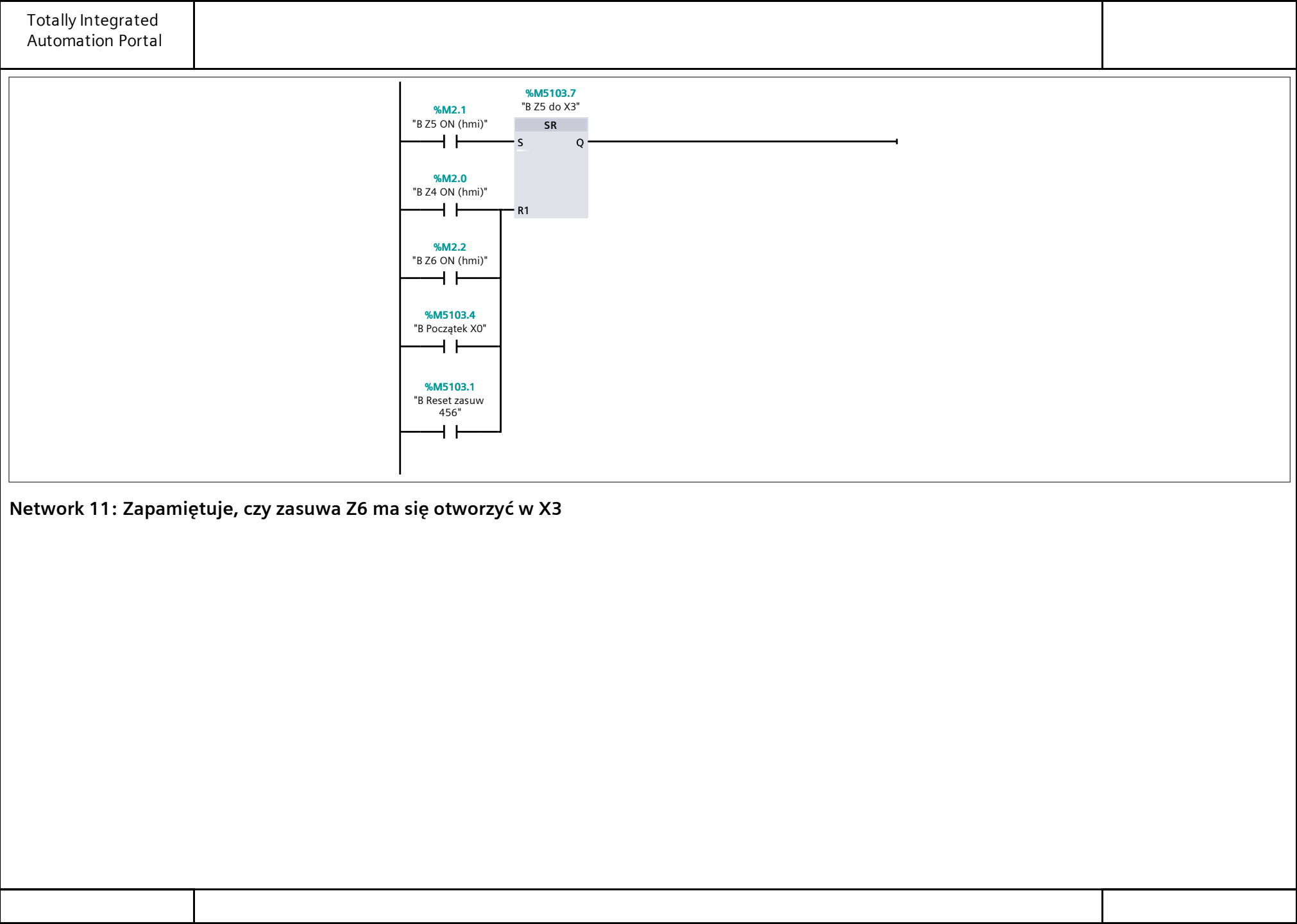


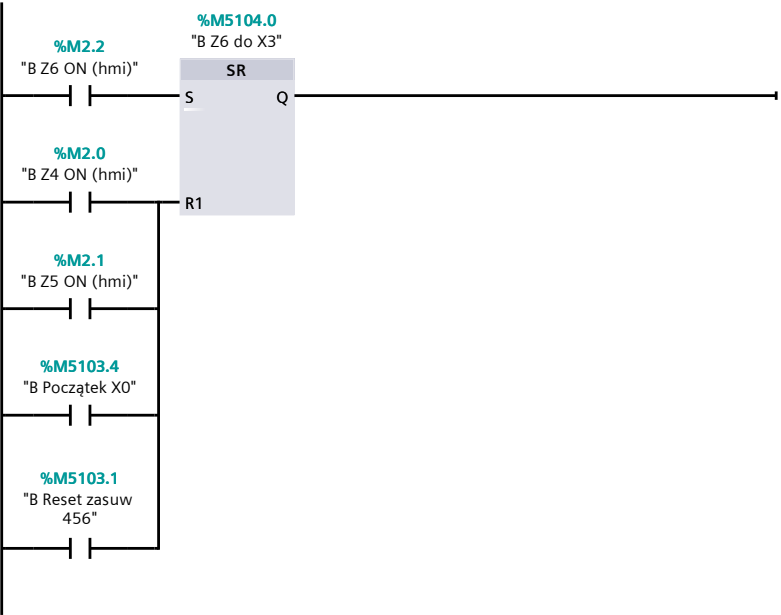
**Network 9: Zapamiętuje, czy zasuwą Z4 ma się otworzyć w X3**





**Network 10: Zapamiętuje, czy zasuw Z5 ma się otworzyć w X3**





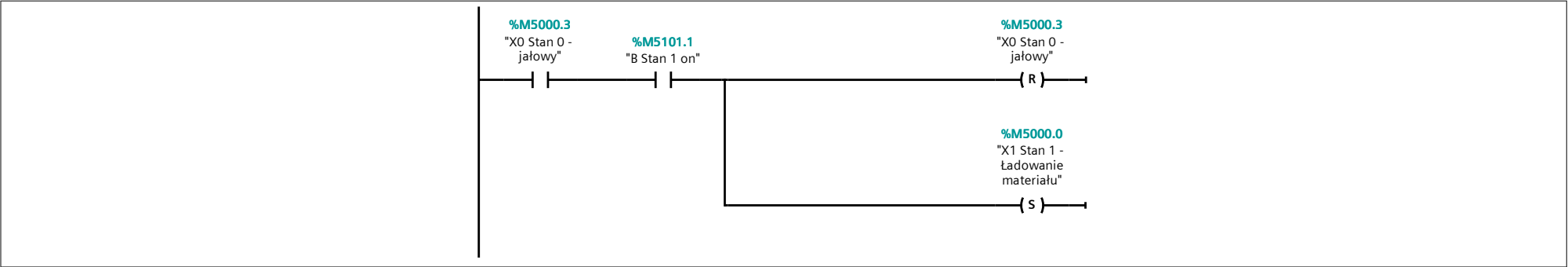
Program blocks

Stany [FC8]

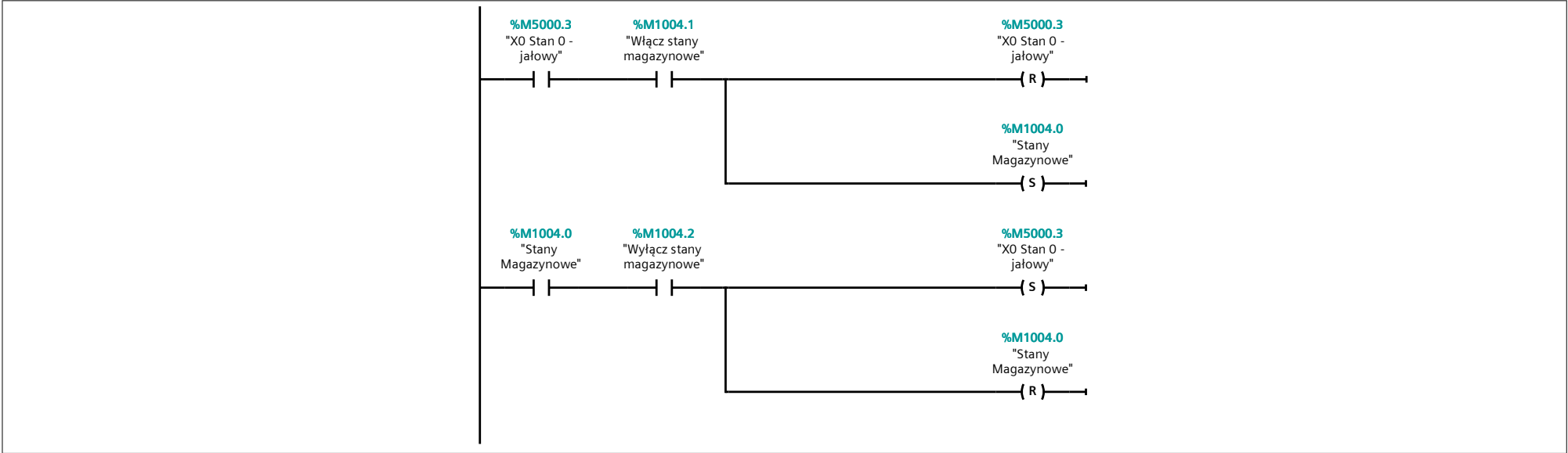
Stany Properties							
General							
Name	Stany	Number	8	Type	FC	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

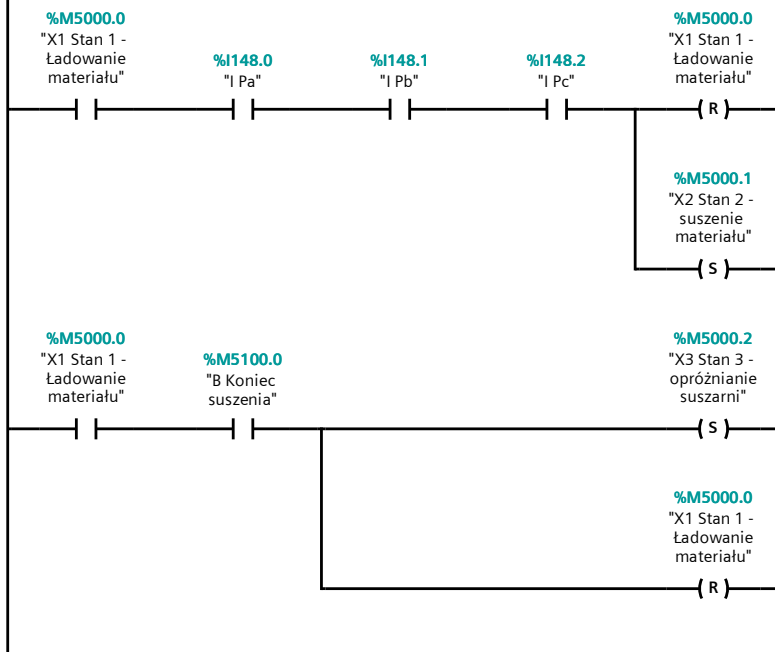
Network 1:



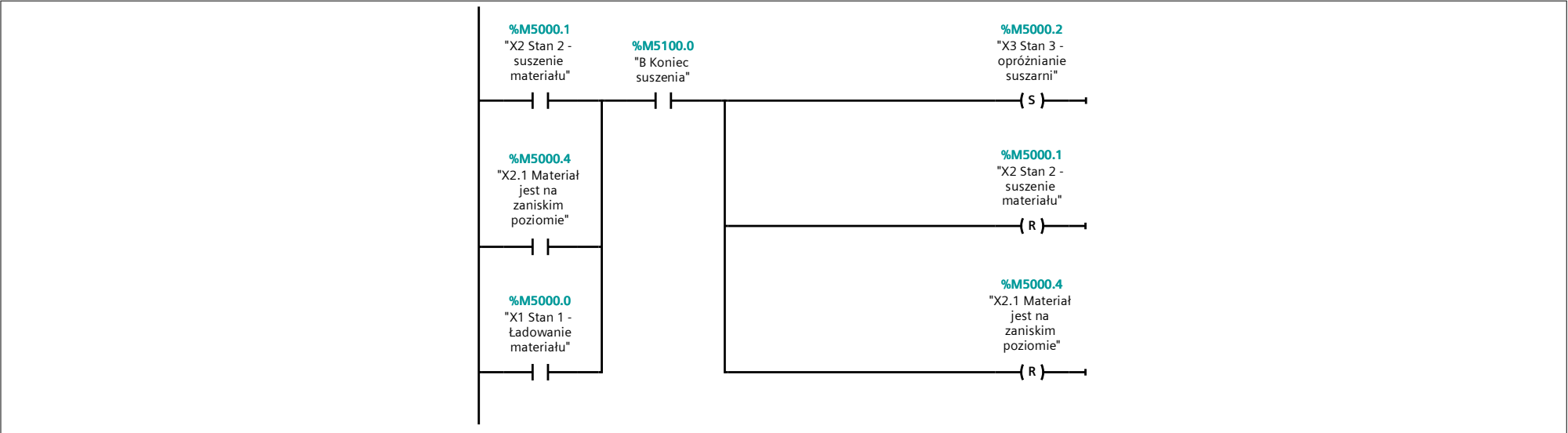
Network 2:



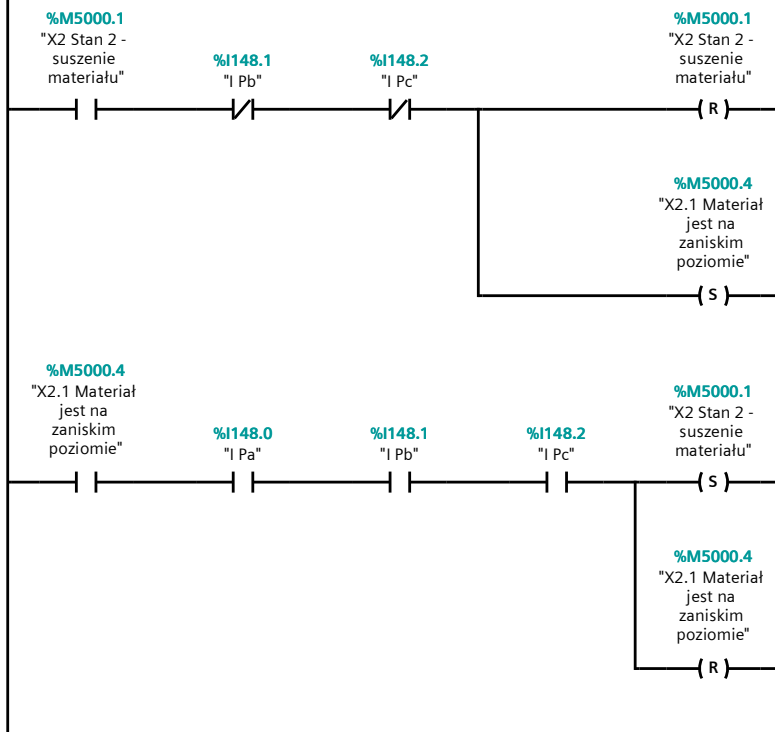
Network 3:



Network 4: Stan 2 i 2.1 warunki końcowe

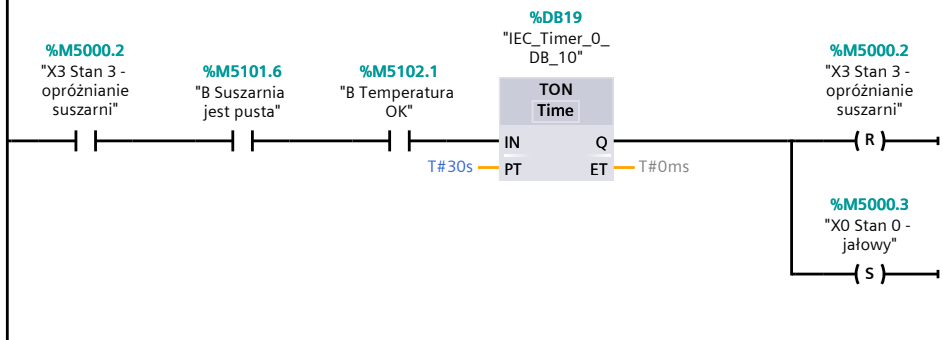


## Network 5: Zmiana między stanami 2 i 2.1

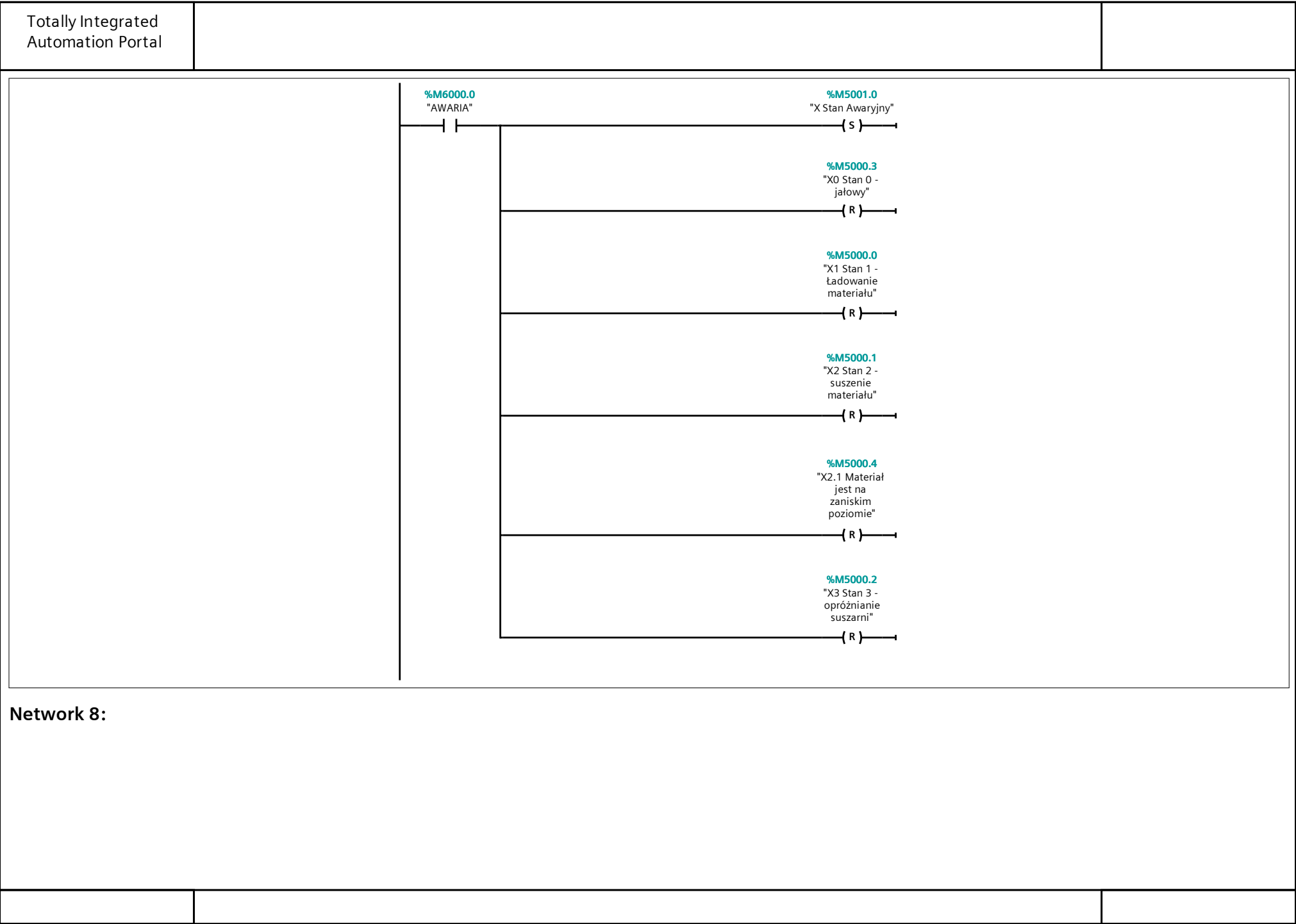


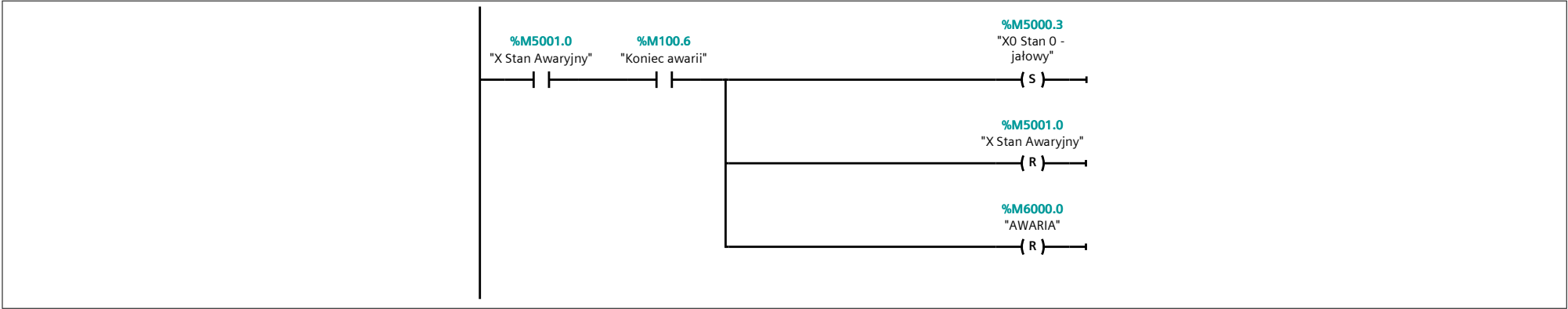
Network 6:





Network 7:

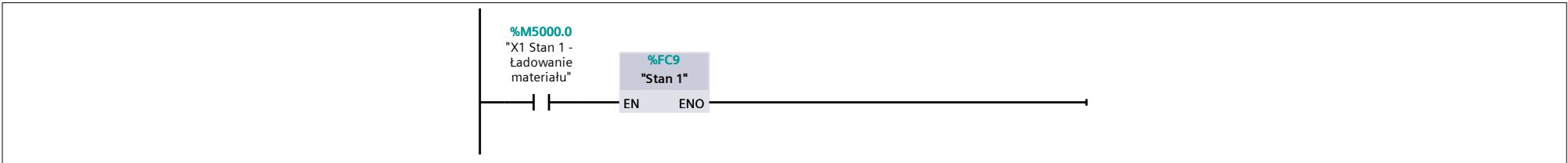




**Network 9:**

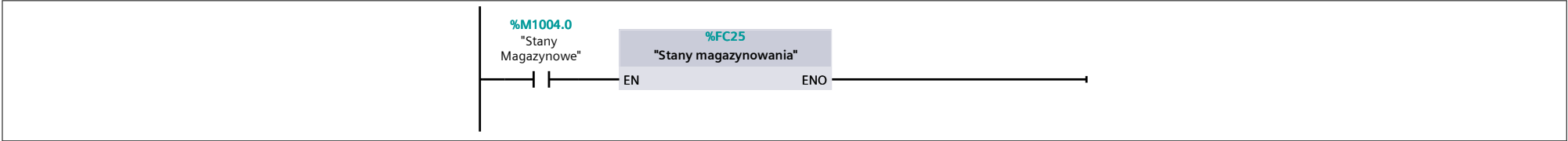


**Network 10:**



Totally Integrated Automation Portal		
	<div><div><div><div><div><div></div><div></div></div><div><div><div>%M5000.1</div><div>"X2 Stan 2 - suszenie materiału"</div></div></div><div><div><div>%FC11</div><div>"Stan 2"</div></div></div></div><div><div>EN</div><div>ENO</div></div></div></div></div>	
Network 12:		
	<div><div><div><div><div><div></div><div></div></div><div><div><div>%M5000.4</div><div>"X2.1 Materiał jest na zaniższym poziomie"</div></div></div><div><div><div>%FC7</div><div>"Stan 2.1"</div></div></div></div><div><div>EN</div><div>ENO</div></div></div></div></div>	
Network 13:		
	<div><div><div><div><div><div></div><div></div></div><div><div><div>%M5000.2</div><div>"X3 Stan 3 - opróżnianie suszarni"</div></div></div><div><div><div>%FC13</div><div>"Stan 3"</div></div></div></div><div><div>EN</div><div>ENO</div></div></div></div></div>	
Network 14:		
	<div><div><div><div><div><div></div><div></div></div><div><div><div>%M5001.0</div><div>"X Stan Awaryjny"</div></div></div><div><div><div>%FC10</div><div>"Stan awaryjny"</div></div></div></div><div><div>EN</div><div>ENO</div></div></div></div></div>	

Network 15:



Totally Integrated Automation Portal		
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Program blocks

Stan 1 [FC9]

Stan 1 Properties

General

Name	Stan 1	Number	9	Type	FC	Language	LAD
Numbering	Automatic						

Information

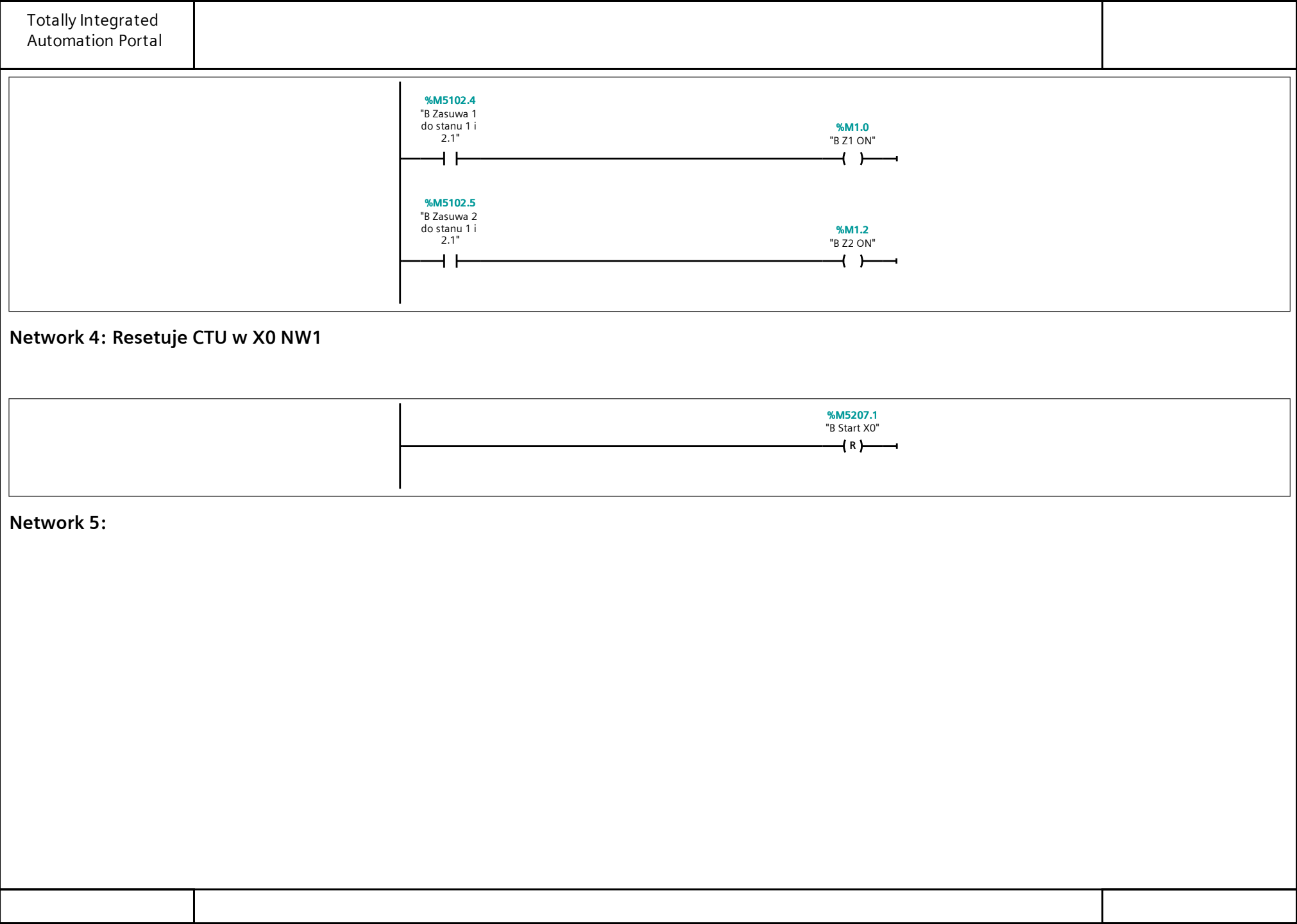
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

Network 1: Silniki

M trzeba usunąć będzie jakk już silniki mogą działać

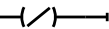
Totally Integrated Automation Portal		
	<div><div></div><div><div><div><div>%M0.0</div><div>"B Silnik 1 ON Kubetek"</div></div><div>( )</div></div><div><div><div>%M0.1</div><div>"B Silnik 2 ON SKOS"</div></div><div>( )</div></div><div><div><div>%M0.2</div><div>"B Silnik 3 ON Góra"</div></div><div>( )</div></div></div></div>	
Network 2: Falownik ślimaka		
	<div><div></div><div><div><div><div>MOVE</div><div>EN</div><div>100.0</div><div>IN</div><div>OUT1</div></div><div>ENO</div><div><div>%MD5740</div><div>"Z % zadany ślimak"</div></div></div><div><div><div>%M5100.2</div><div>"B ON ślimak M"</div></div><div>( )</div></div></div></div>	
Network 3: Otwiera wybrane zasuwy wybrane przy pomocy hmi w X0		





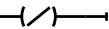
%M1.4

"B Z3 ON"



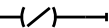
%M1.5

"B Z4 ON"



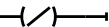
%M1.6

"B Z5 ON"



%M1.7

"B Z6 ON"



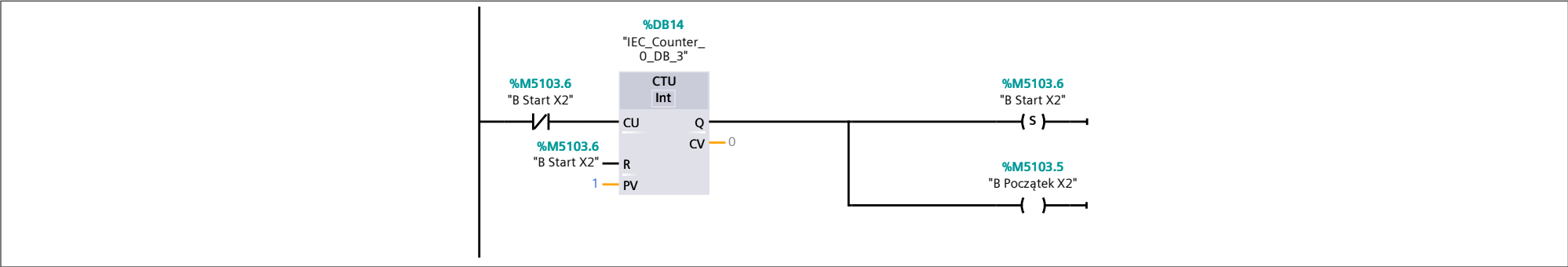
Program blocks

Stan 2 [FC11]

Stan 2 Properties							
General							
Name	Stan 2	Number	11	Type	FC	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

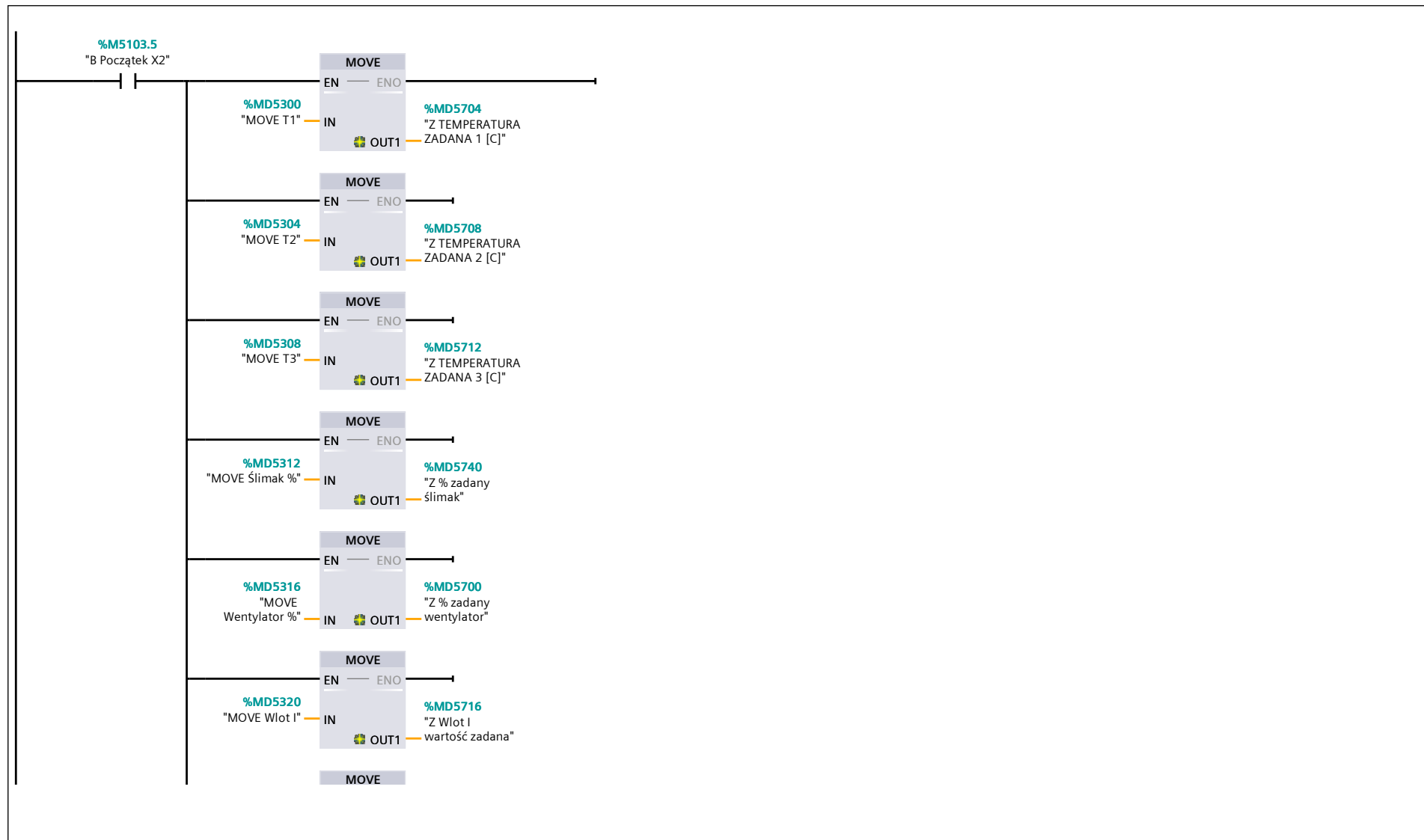
Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
Stan 2	Void	

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



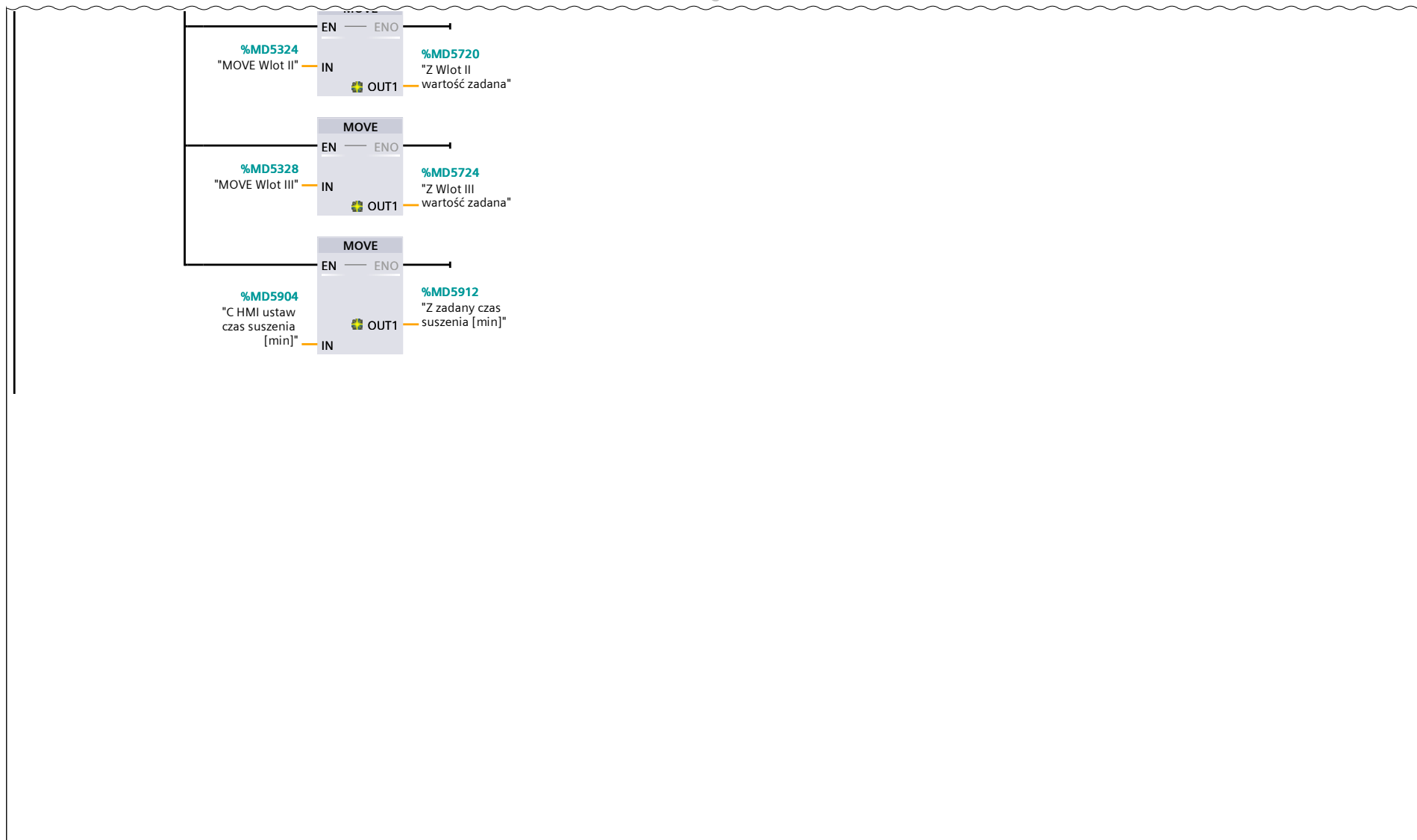
Totally Integrated Automation Portal		
<b>Network 2: Ustawia wartości zadane po włączeniu X2</b>		

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



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

1.1 ( Page14 - 3)

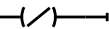


Totally Integrated Automation Portal		
Network 3: Ślimak jest włączony		
	<div><div></div><div><div><div>%M5100.2</div><div>"B ON ślimak M"</div></div><div></div></div></div>	
Network 4: Silniki		
	<div><div></div><div><div><div>%M0.0</div><div>"B Silnik 1 ON Kubetek"</div></div><div></div></div><div><div><div>%M0.1</div><div>"B Silnik 2 ON SKOS"</div></div><div></div></div><div><div><div>%M0.2</div><div>"B Silnik 3 ON Góra"</div></div><div></div></div></div>	
Network 5: Wentylator		
	<div><div></div><div><div><div>%M5100.3</div><div>"B ON WENTYLATOR M"</div></div><div></div></div></div>	

Totally Integrated Automation Portal		
Network 6:		
	<div><div></div><div><div>%M5104.2</div><div>"B Start X2.1.0"</div><div>( R )</div></div><div><div>%M5104.4</div><div>"B Start X2.1.1"</div><div>( R )</div></div></div>	
Network 7:		
	<div><div></div><div><div>%M5100.5</div><div>"B PID 1 ON"</div><div>( )</div></div><div><div>%M5100.6</div><div>"B PID 2 ON"</div><div>( )</div></div><div><div>%M5100.7</div><div>"B PID 3 ON"</div><div>( )</div></div></div>	
Network 8:		

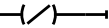
%M1.0

"B Z1 ON"



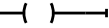
%M1.2

"B Z2 ON"



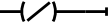
%M1.4

"B Z3 ON"



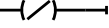
%M1.5

"B Z4 ON"



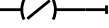
%M1.6

"B Z5 ON"



%M1.7

"B Z6 ON"



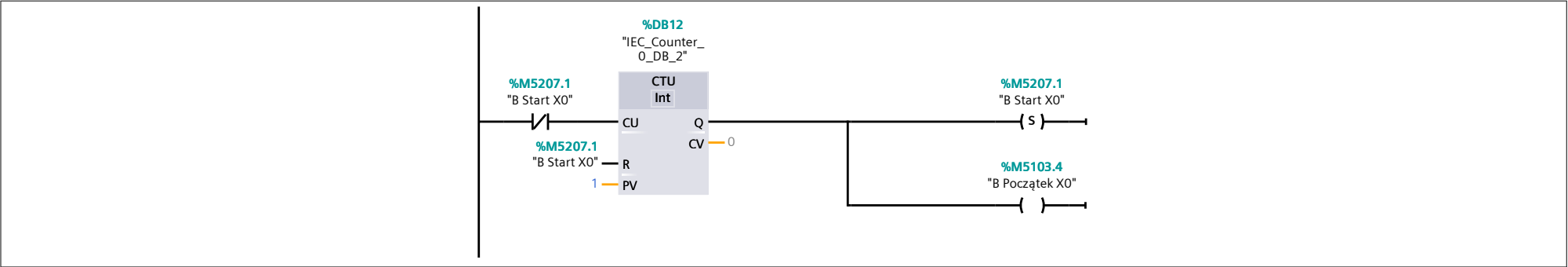


Program blocks

Stan 0 [FC12]

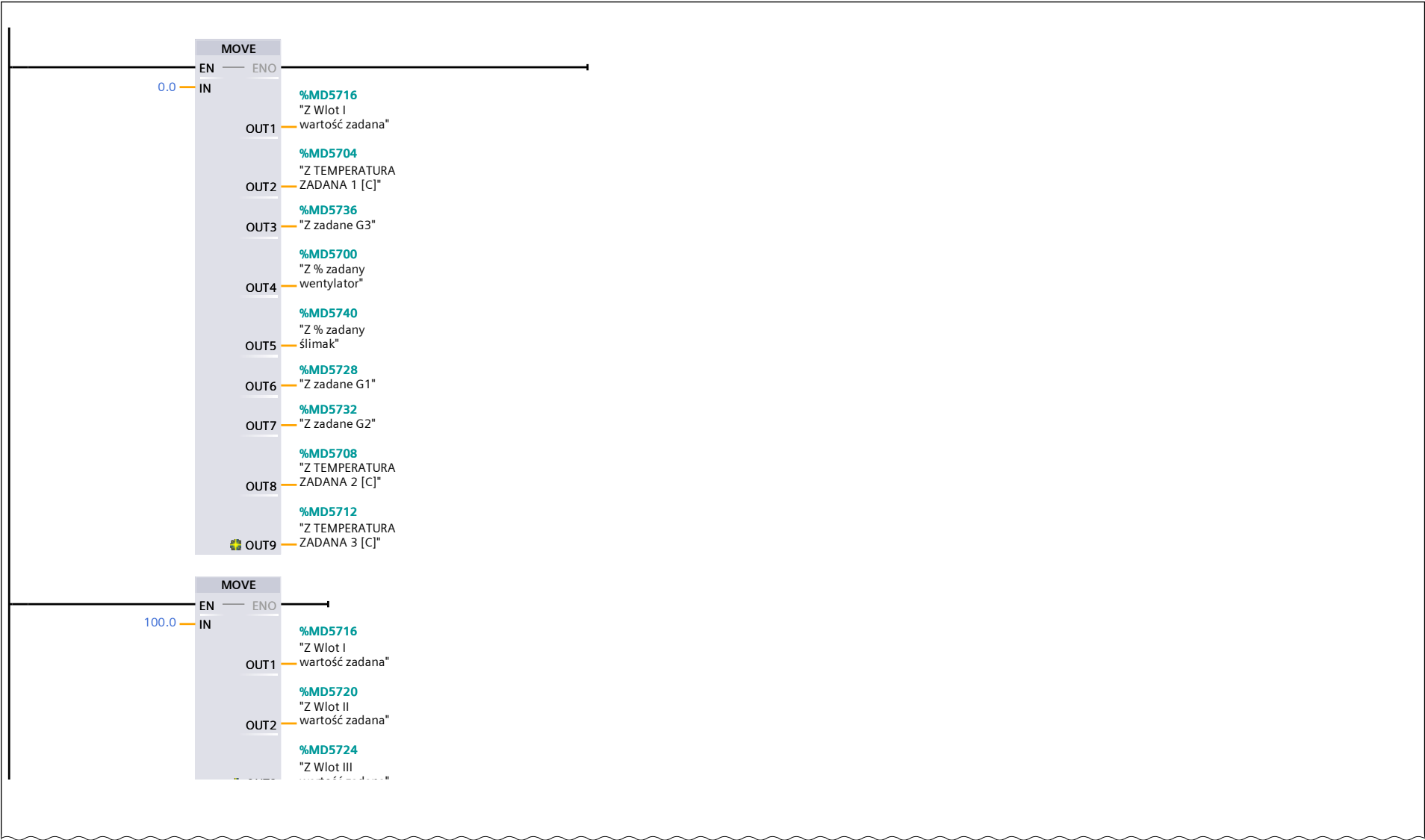
Stan 0 Properties							
General							
Name	Stan 0	Number	12	Type	FC	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					
Name				Data type		Default value	
Input							
Output							
InOut							
Temp							
Constant							
▼ Return							
Stan 0				Void			

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



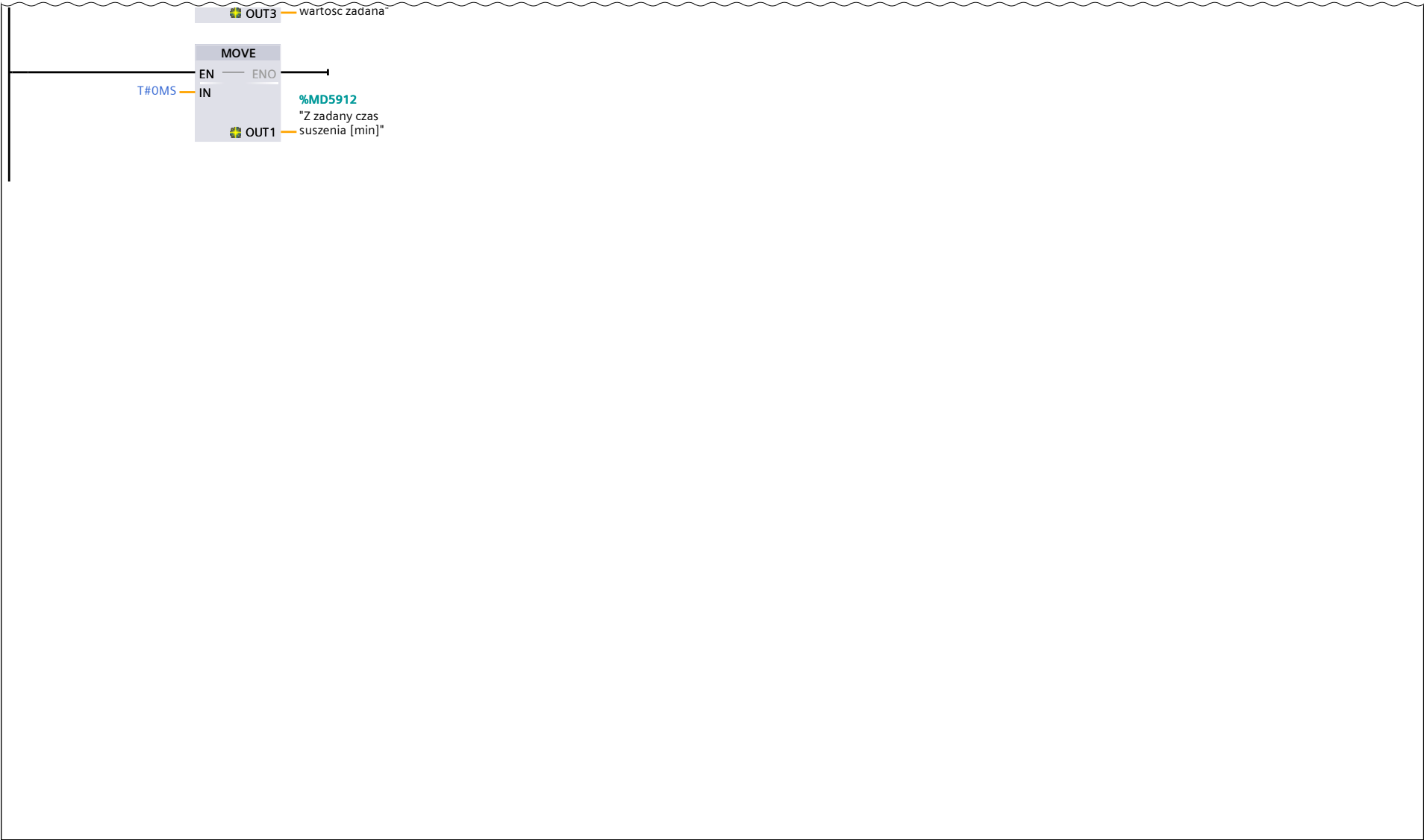


Network 2: (1.1 / 2.1)

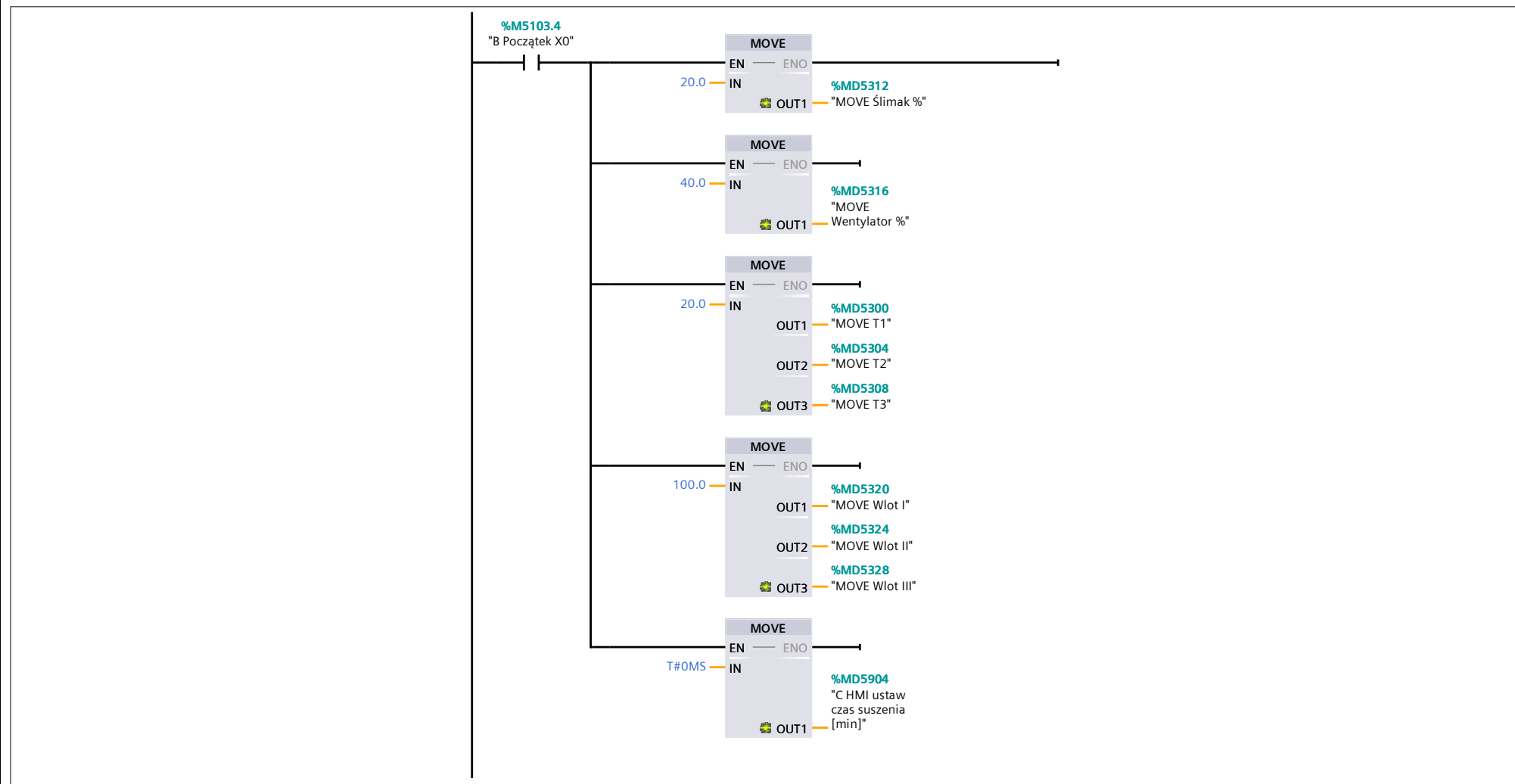


Network 2: (2.1 / 2.1)

1.1 ( Page15 - 3)



### Network 3: Wyczyszczanie wartości



Totally Integrated Automation Portal		
<div>Network 4: zamnąć zasuwy</div> <div><div></div><div><div><div>%M1.4 "B Z3 ON"</div><div></div></div><div><div>%M1.2 "B Z2 ON"</div><div></div></div><div><div>%M1.0 "B Z1 ON"</div><div></div></div><div><div>%M1.5 "B Z4 ON"</div><div></div></div><div><div>%M1.6 "B Z5 ON"</div><div></div></div><div><div>%M1.7 "B Z6 ON"</div><div></div></div></div></div>		
<div>Network 5: Silniki są wyłączone</div>		



Totally Integrated Automation Portal

Program blocks

Stan 3 [FC13]

Stan 3 Properties

General

Name	Stan 3	Number	13	Type	FC	Language	LAD
Numbering	Automatic						

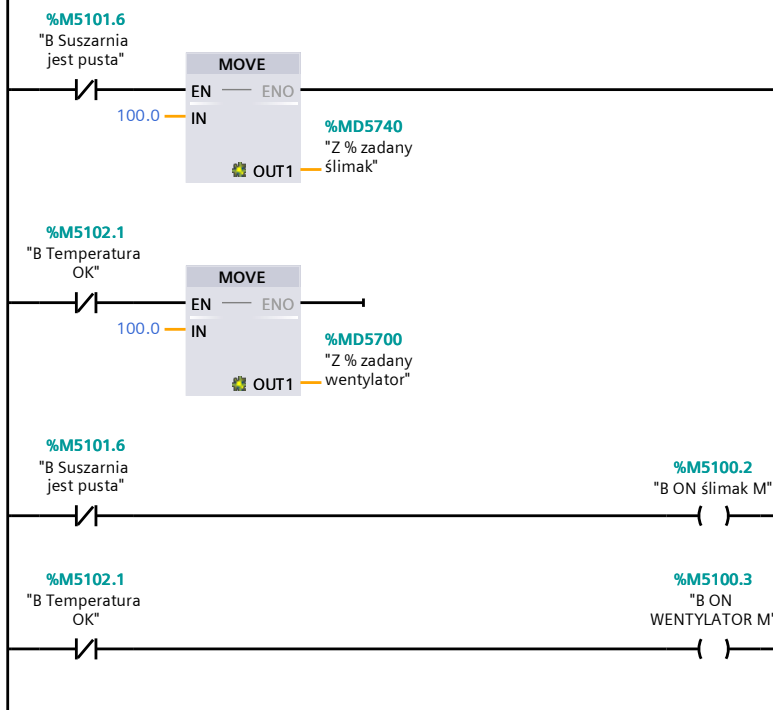
Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

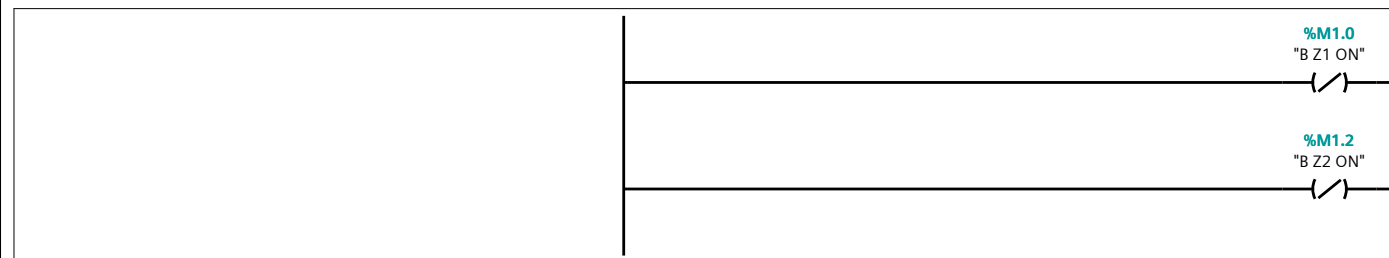
Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
Stan 3	Void	

Network 1: Ustalenie wartości max wentylatora i ślimaka

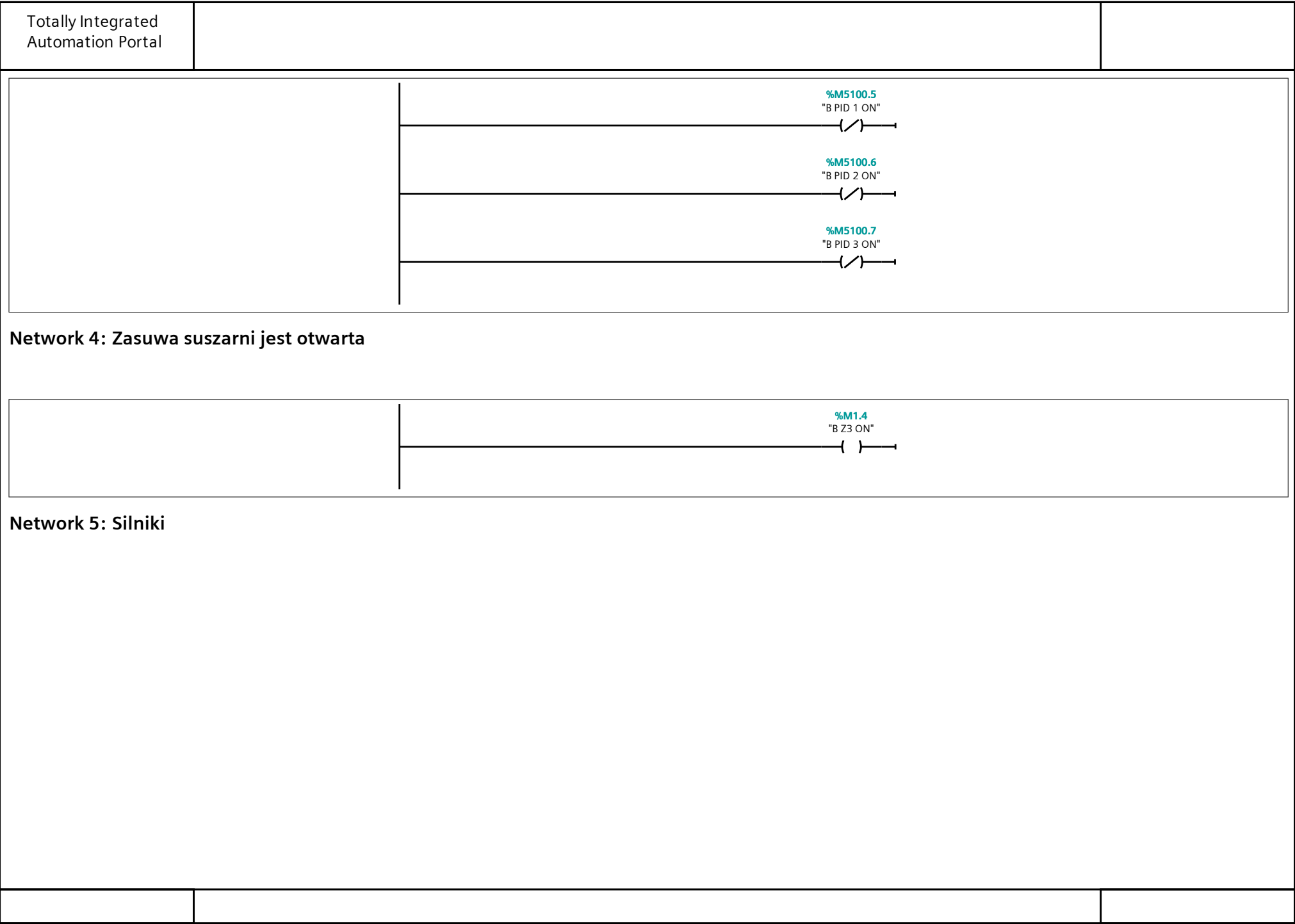


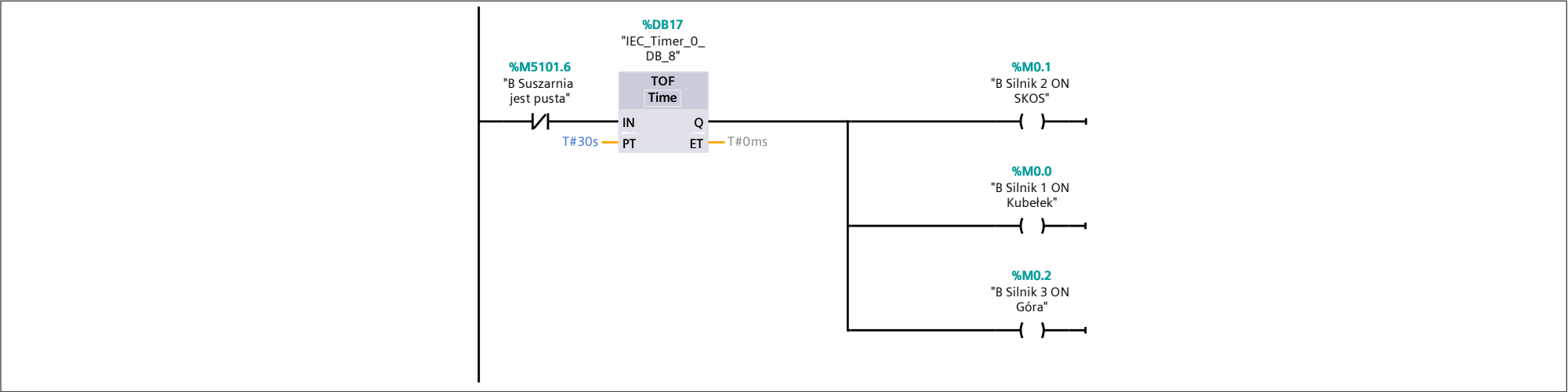


## Network 2: Zamknięcie dolnych zasuw zbiorników

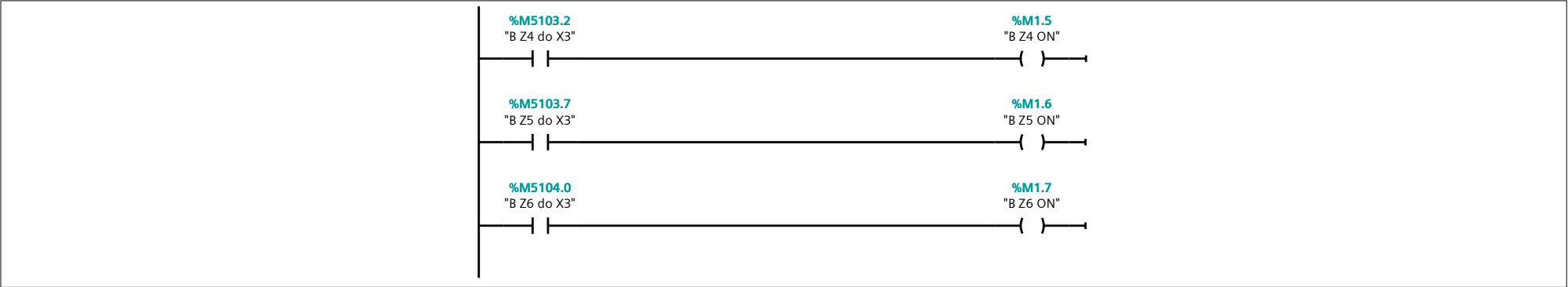


## Network 3:





Network 6: Zasuwy Z4 Z5 Z6



Network 7:

Resetuje CTU w X2 i X2.1

Totally Integrated Automation Portal		
	<div><div></div><div><div>%M5103.6 "B Start X2"</div><div>( R )</div></div><div><div>%M5104.2 "B Start X2.1.0"</div><div>( R )</div></div></div>	

Totally Integrated Automation Portal		
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Program blocks

Startup [OB100]

Startup Properties

General

Name	Startup	Number	100	Type	OB	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

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Totally Integrated Automation Portal

Program blocks

Obliczenia Wloty powietrza [FC15]

Obliczenia Wloty powietrza Properties

General

Name	Obliczenia Wloty powietrza	Number	15	Type	FC	Language	LAD
Numbering	Automatic						

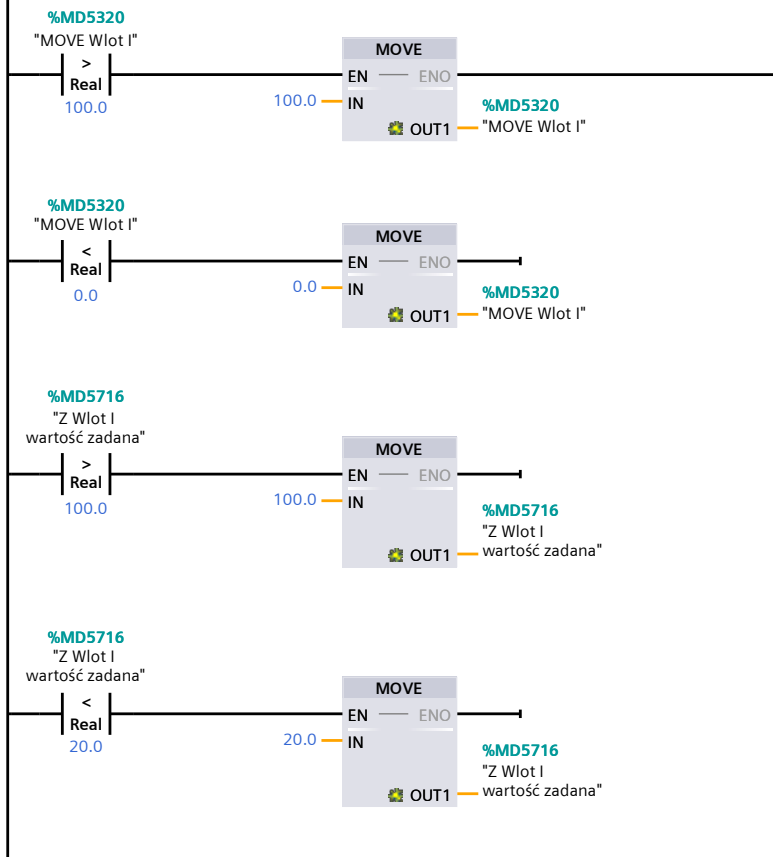
Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

Network 1:

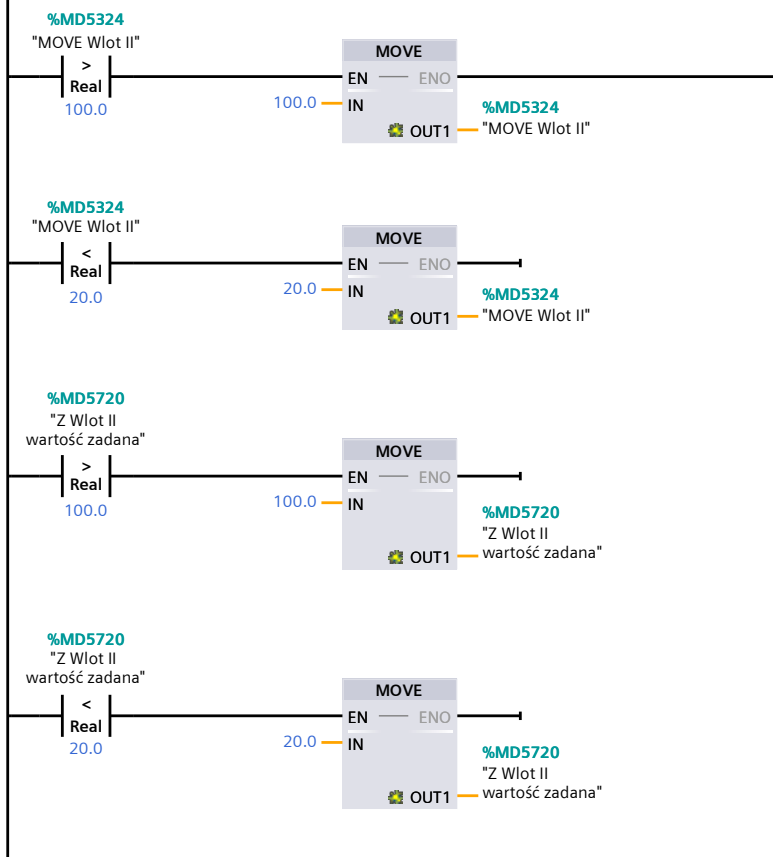
Ograniczenia wartości zadanej wlotu I



## Network 2:

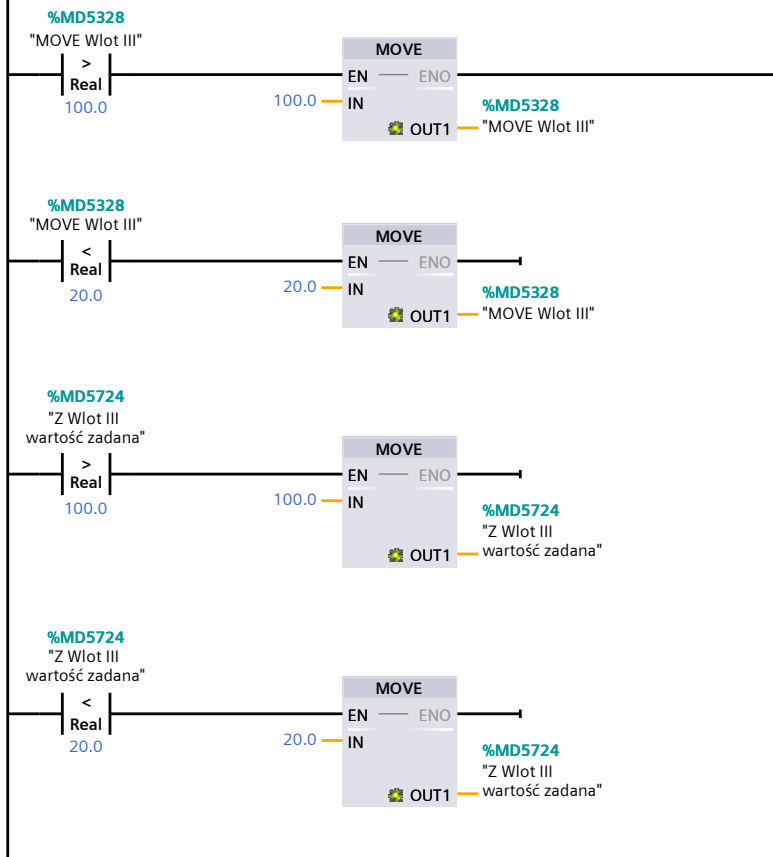
Ograniczenia wartości zadanej wlotu II



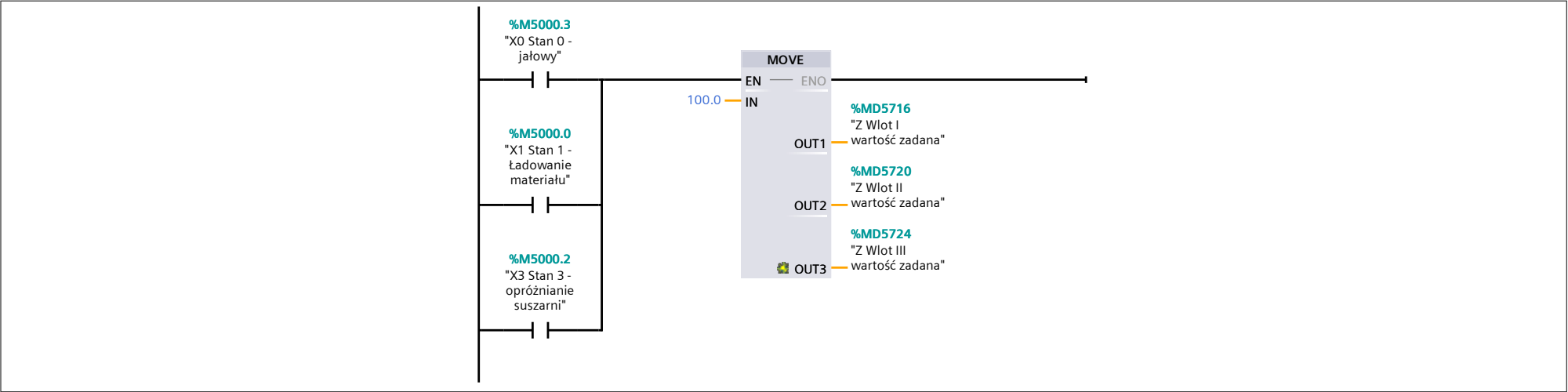


### Network 3:

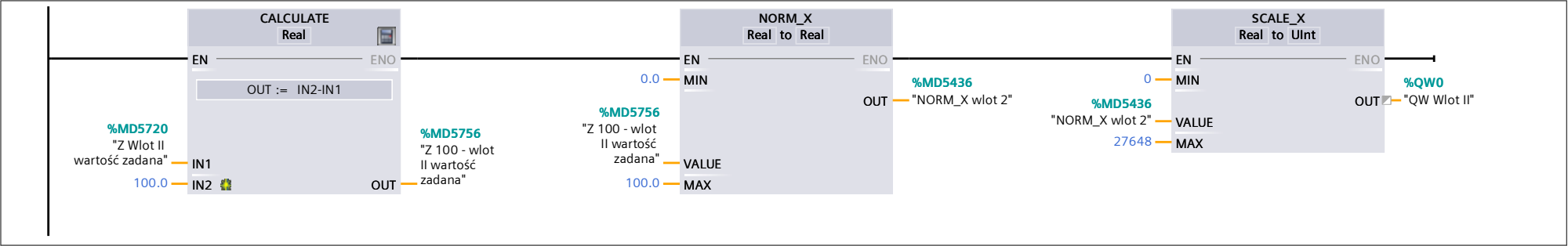
Ograniczenia wartości zadanej wlotu III



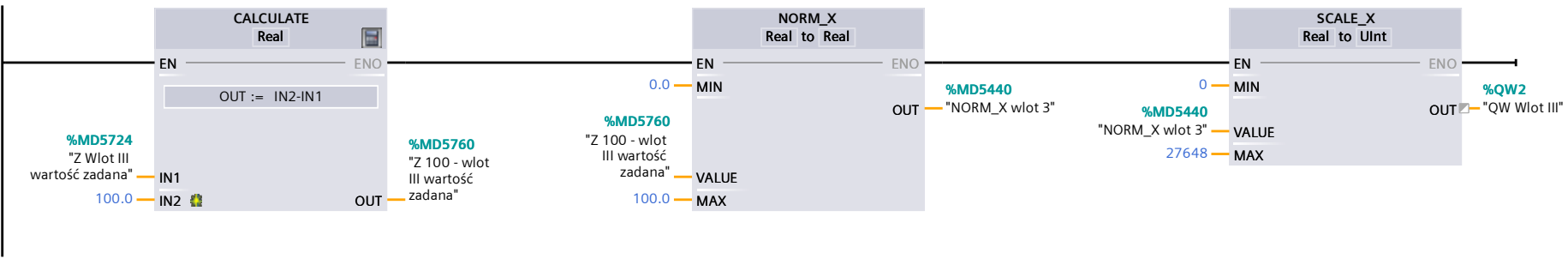
Network 4: OTWARCIE KLAP W X0 X1 i X3



Network 5:



Network 6:



Totally Integrated Automation Portal

Program blocks

Wyjścia [FC24]

Wyjścia Properties

General

Name	Wyjścia	Number	24	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		
Wyjścia	Void	

Network 1:

%FC6

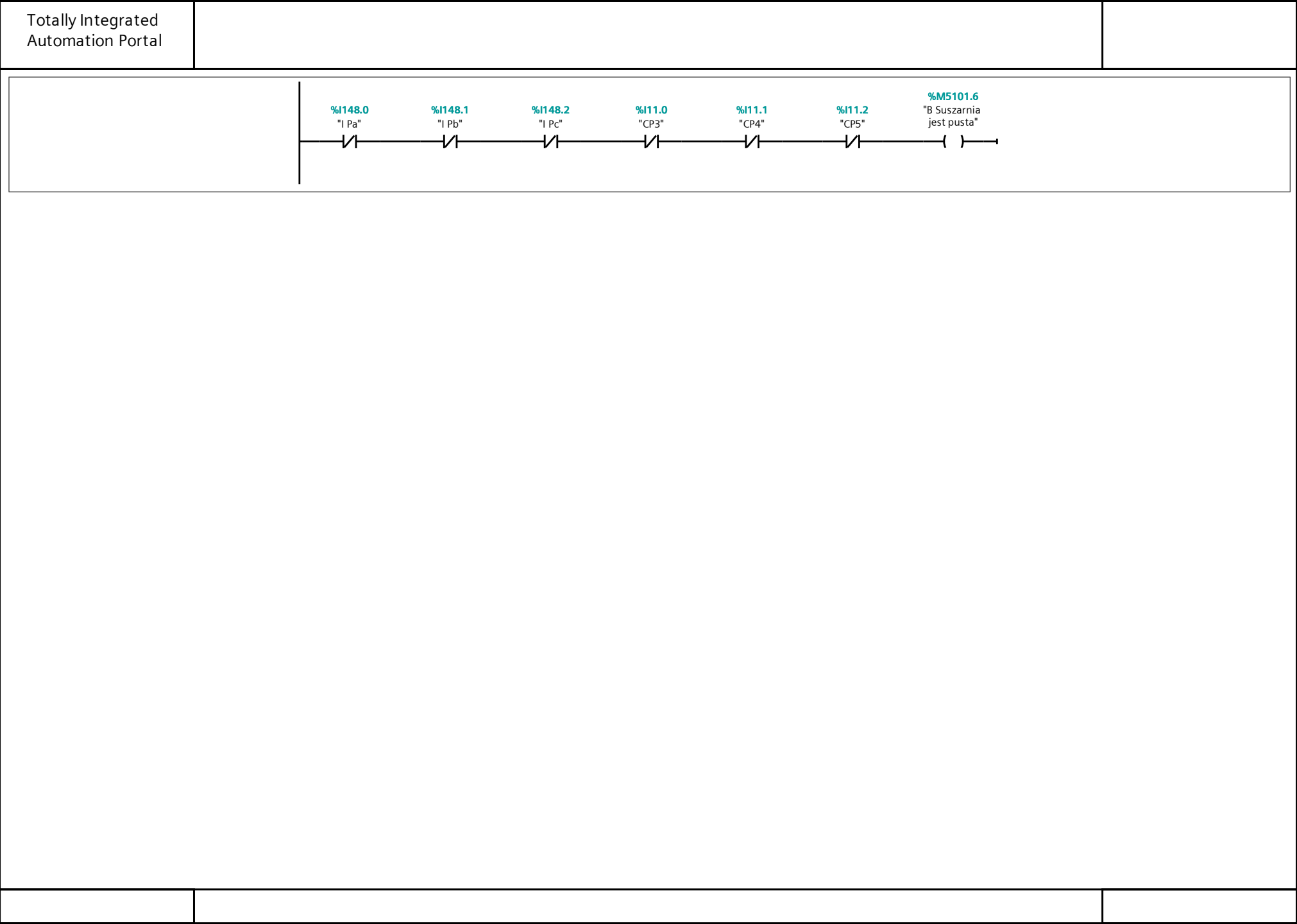
"Wyjścia Silników"

EN

ENO

Network 2:

Totally Integrated Automation Portal		
	<div><div><div><div>%FC14</div><div>"Wyjścia HMI"</div><div>EN</div><div>ENO</div></div><div></div></div></div>	
Network 3:		
	<div><div><div><div>%FC4</div><div>"Wyjścia Zasuw"</div><div>EN</div><div>ENO</div></div><div></div></div></div>	
Network 4: Ślimak falownik		
	<div><div><div><div>%M5100.2</div><div>"B ON ślimak M"</div><div></div><div></div></div><div></div><div><div><div>%Q134.3</div><div>"Q ON Ślimak"</div><div></div><div></div></div></div></div></div>	
Network 5: Wentylator		
	<div><div><div><div>%M5100.3</div><div>"B ON WENTYLATOR M"</div><div></div><div></div></div><div></div><div><div><div>%Q134.2</div><div>"Q ON Wentylator"</div><div></div><div></div></div></div></div></div>	
Network 6: Wykrywanie, czy suszarnia jest pusta		
Suszarnia jest pusta, gdy czujniki Pa Pb Pc i zamontowane przy kubelkach pokazują 0 logiczne		



Program blocks

Obliczenia [FC26]

Obliczenia Properties							
General							
Name	Obliczenia	Number	26	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		
Obliczenia	Void	

Network 1:



Network 2:



Totally Integrated Automation Portal		
	<div><div></div><div><div>%FC2</div><div>"Obliczenia Odczyt temperatury"</div><div>EN</div><div>ENO</div></div><div></div></div>	
Network 3:		
	<div><div></div><div><div>%FC3</div><div>"Obliczenia ŚLIMAK FALOWNIK"</div><div>EN</div><div>ENO</div></div><div></div></div>	
Network 4:		
	<div><div></div><div><div>%FC1</div><div>"Obliczenia WENTYLATOR"</div><div>EN</div><div>ENO</div></div><div></div></div>	
Network 5:		
	<div><div></div><div><div>%FC15</div><div>"Obliczenia Wloty powietrza"</div><div>EN</div><div>ENO</div></div><div></div></div>	
Network 6:		

[illegible]

Totally Integrated Automation Portal

Program blocks

Data\_block\_1 [DB6]

Data\_block\_1 Properties

General

Name

Data\_block\_1

Number

6

Type

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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Program blocks

Stan 2.1 [FC7]

Stan 2.1 Properties

General

Name	Stan 2.1	Number	7	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		
Stan 2.1	Void	

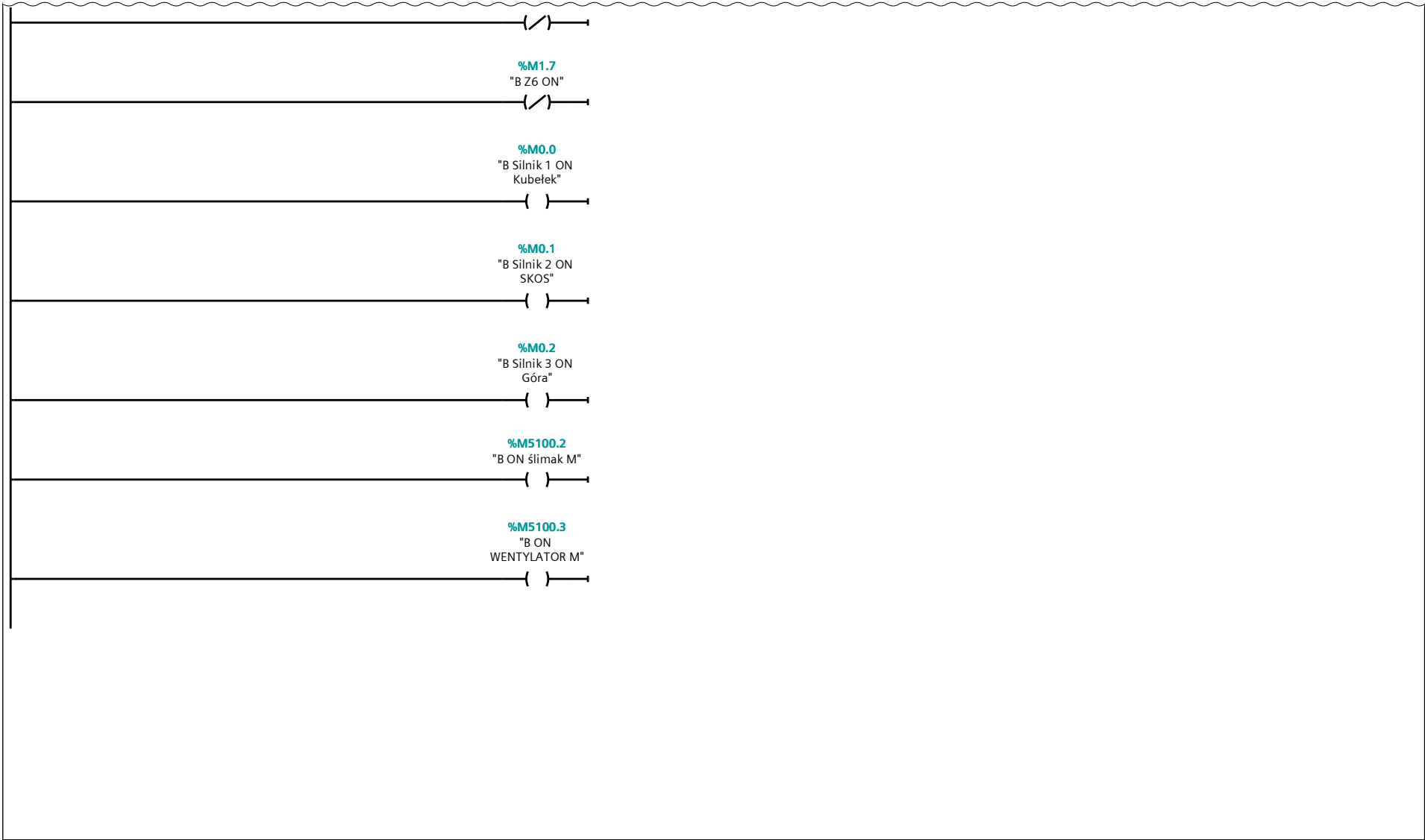
Network 1:

Network 1: (1.1 / 2.1)



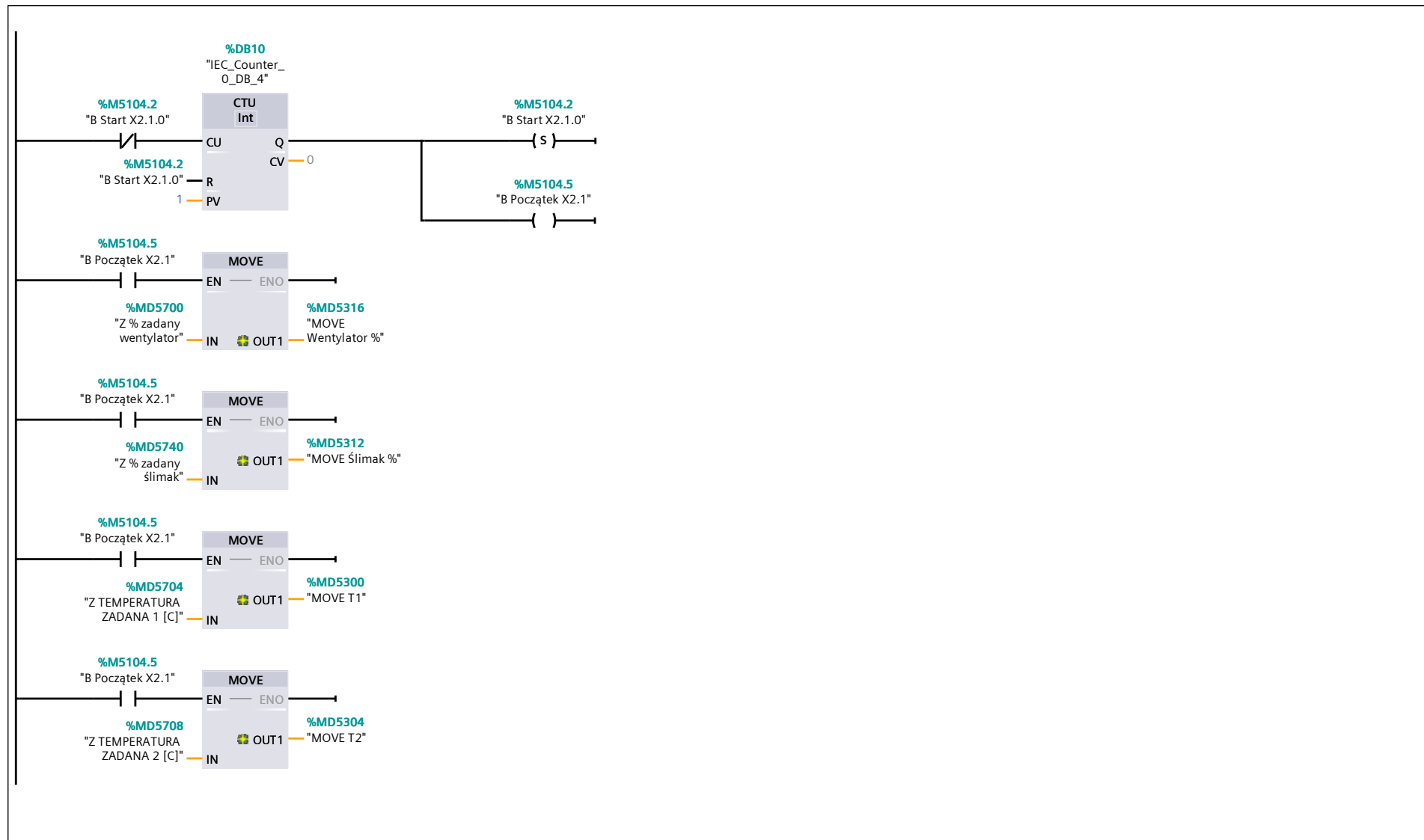
Network 1: (2.1 / 2.1)

1.1 ( Page22 - 2)



Totally Integrated Automation Portal		
<b>Network 2: Zapisanie wartości</b>		

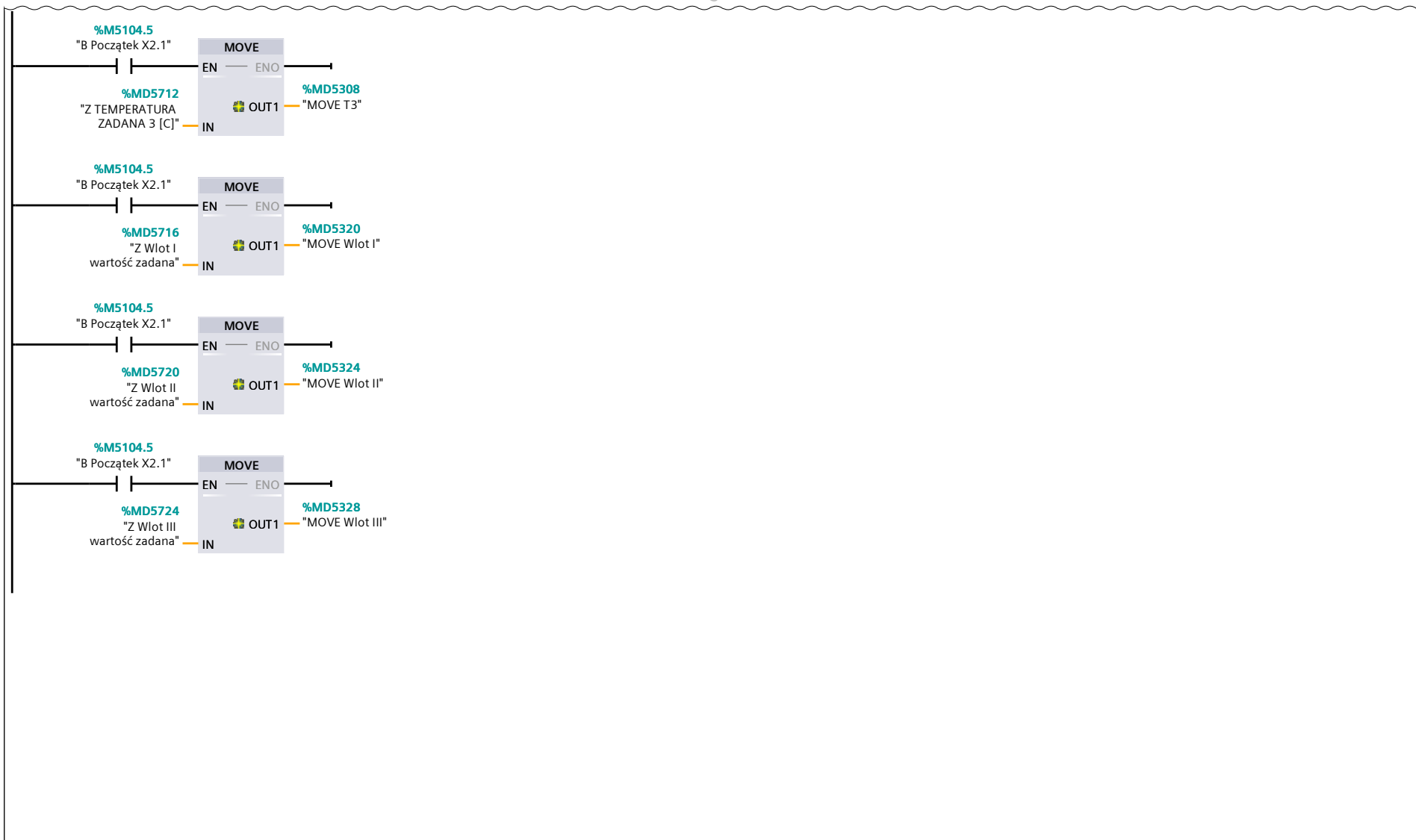
## Network 2: Zapisanie wartości (1.1 / 2.1)





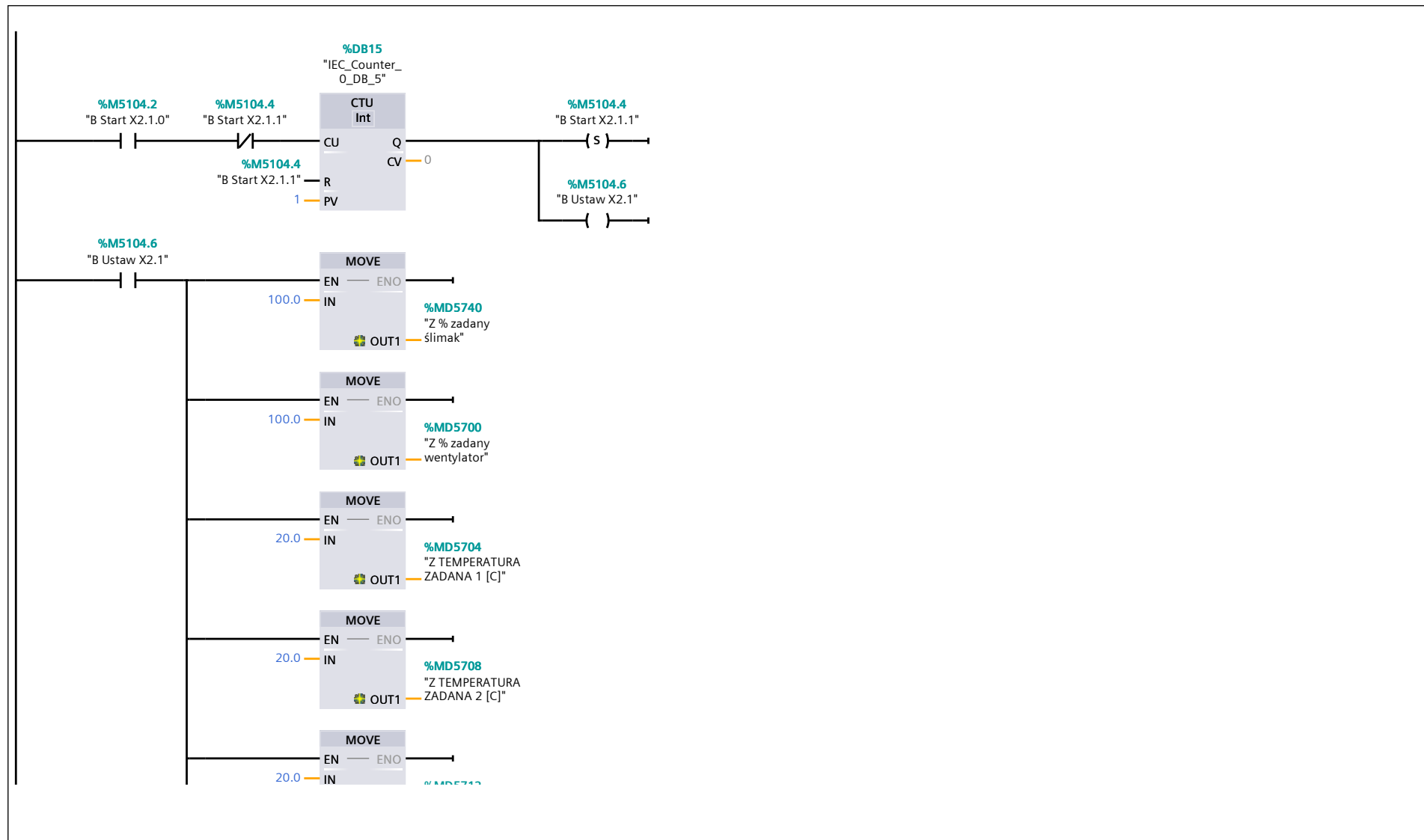
## Network 2: Zapisanie wartości (2.1 / 2.1)

1.1 ( Page22 - 5)



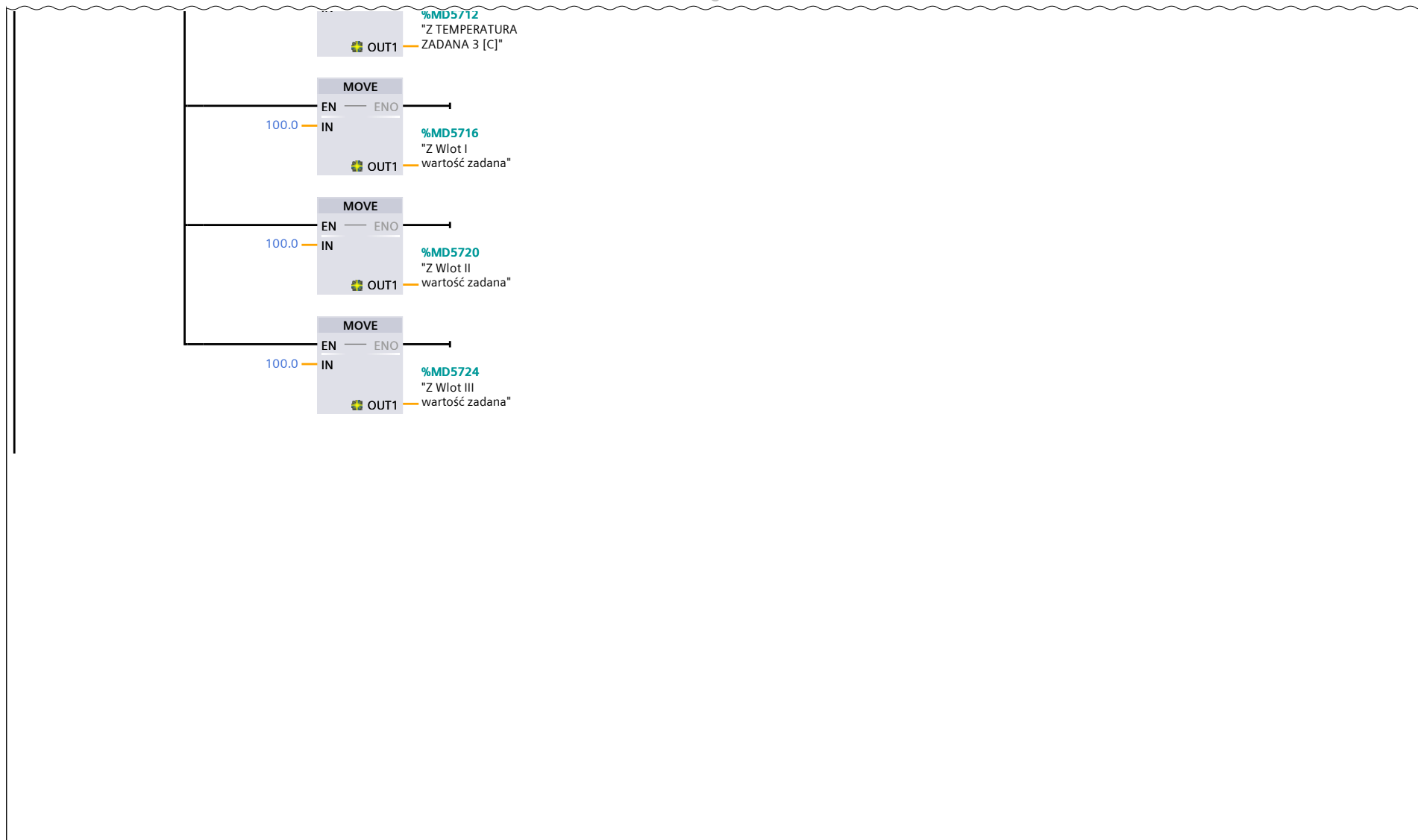


### Network 3: Ustawienie wartości zadanych (1.1 / 2.1)



### Network 3: Ustawienie wartości zadanych (2.1 / 2.1)

1.1 ( Page22 - 8)



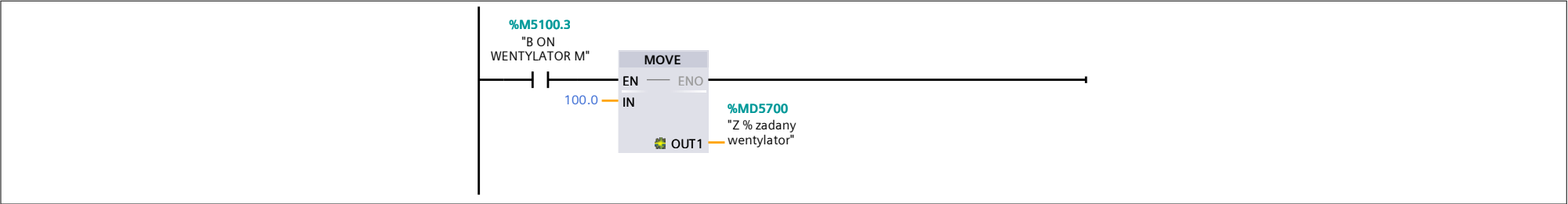
Program blocks

Stan awaryjny [FC10]

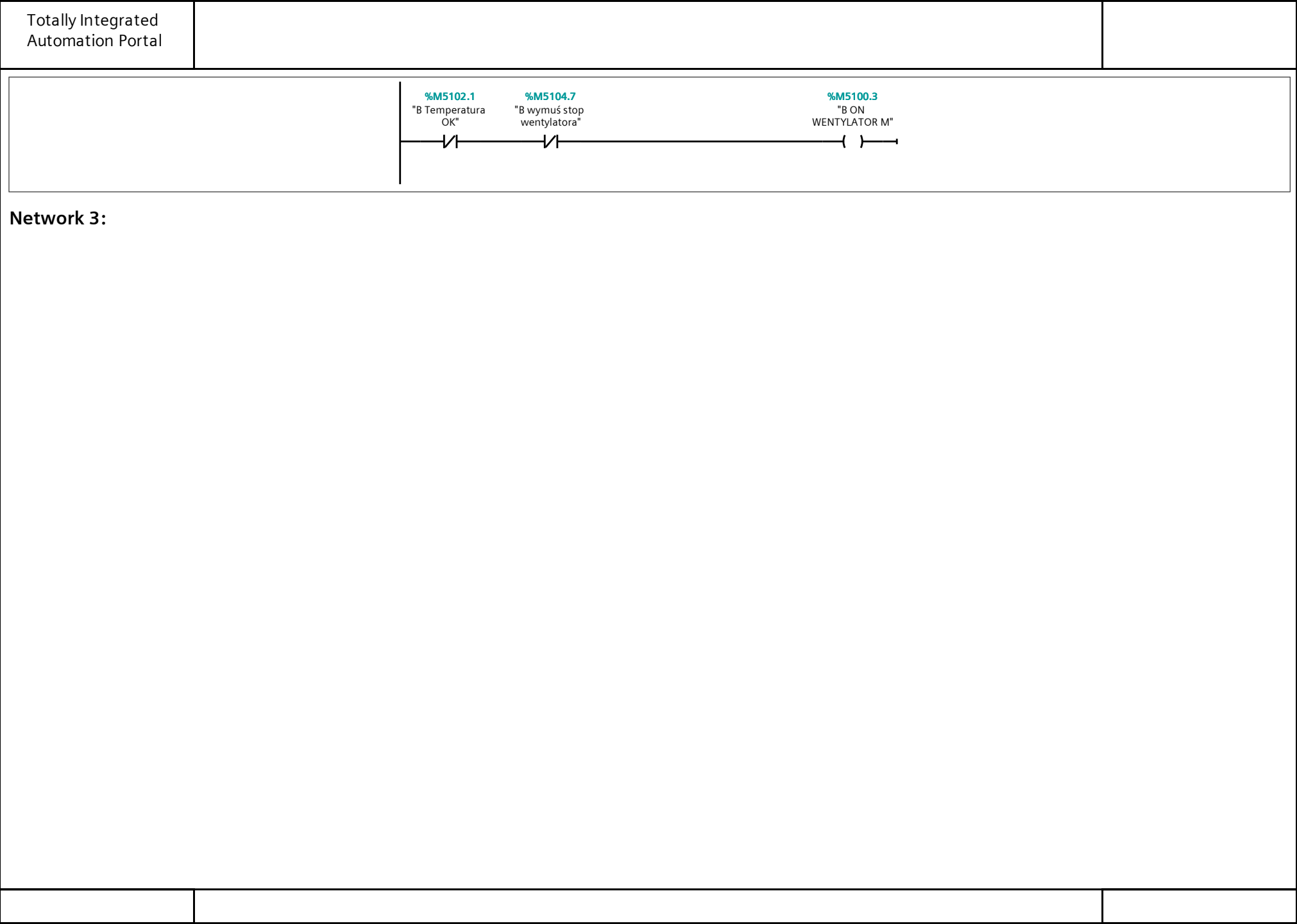
Stan awaryjny Properties							
General							
Name	Stan awaryjny	Number	10	Type	FC	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

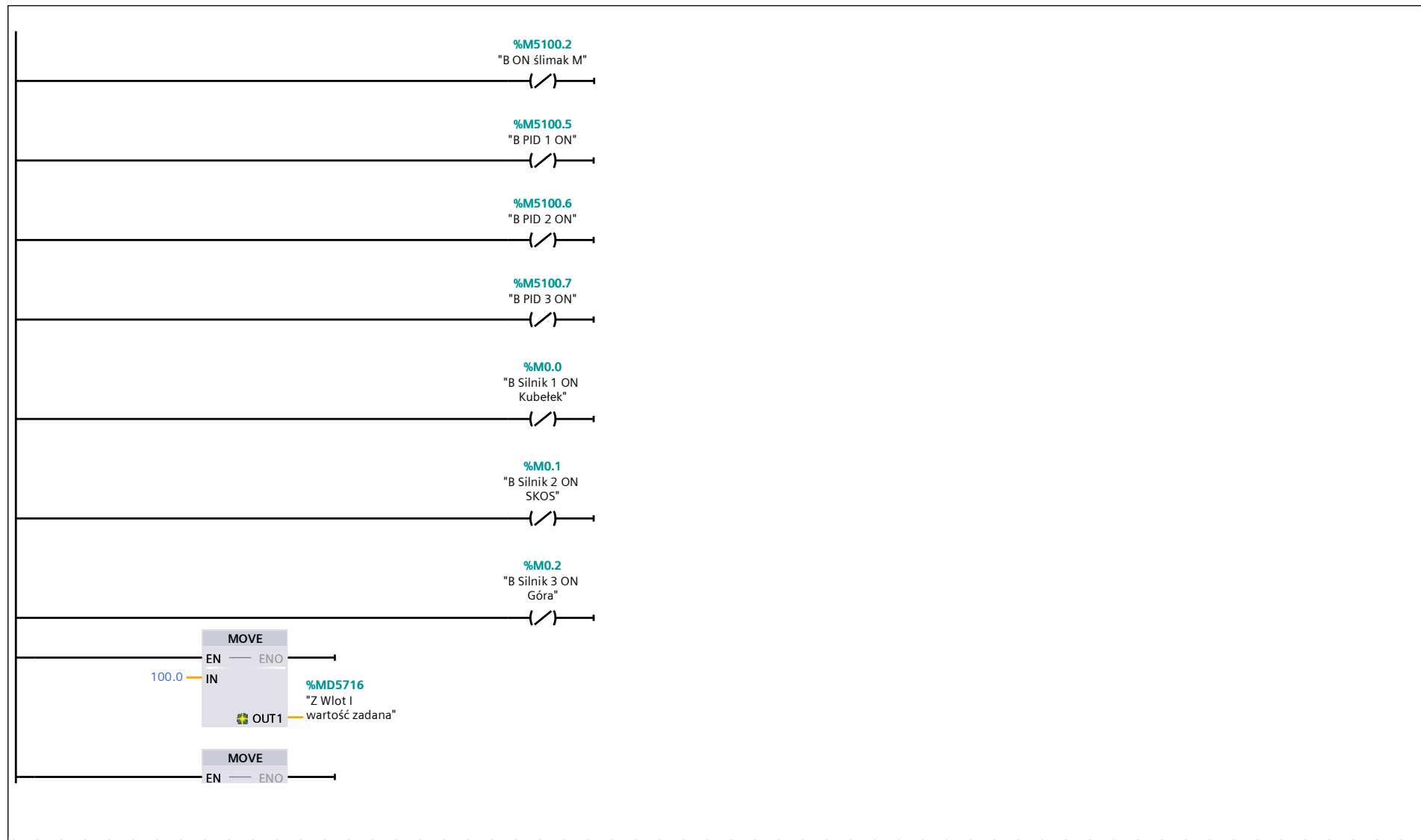
Network 1: Temperatura jest za wysoka



Network 2: Wentylator

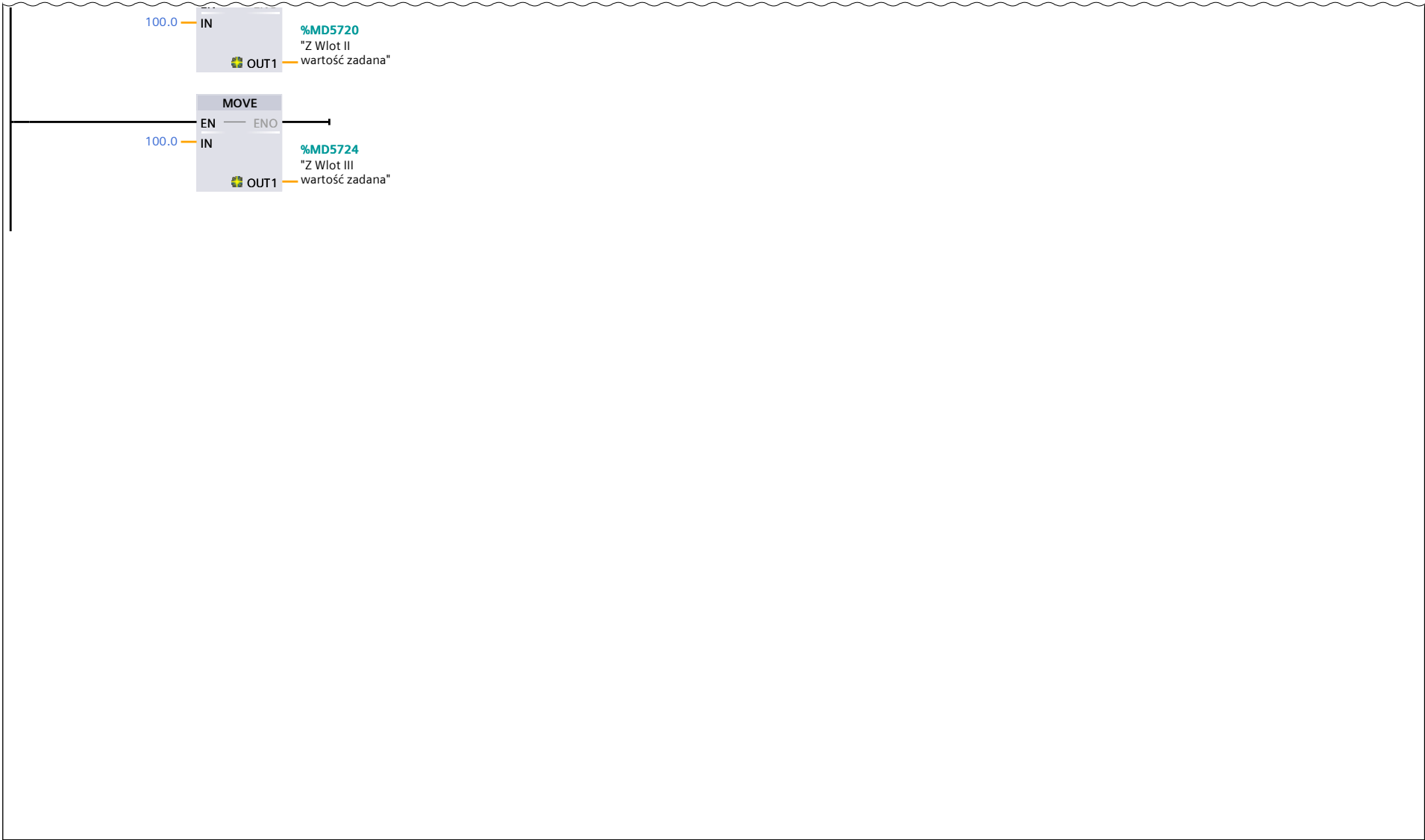


### Network 3: (1.1 / 2.1)



Network 3: (2.1 / 2.1)

1.1 ( Page23 - 3)





Totally Integrated Automation Portal		
Network 4:		
<div><div></div><div><div><div>%M1.0 "B Z1 ON"</div><div></div></div><div><div>%M1.2 "B Z2 ON"</div><div></div></div><div><div>%M1.4 "B Z3 ON"</div><div></div></div><div><div>%M1.5 "B Z4 ON"</div><div></div></div><div><div>%M1.6 "B Z5 ON"</div><div></div></div><div><div>%M1.7 "B Z6 ON"</div><div></div></div></div></div>		
Network 5:		
<div><div></div><div><div><div>%M5800.4 "HMI do Ekranu Awaria"</div><div></div></div></div></div>		

Totally Integrated Automation Portal		
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Program blocks

Wyjścia HMI [FC14]

Wyjścia HMI Properties

General

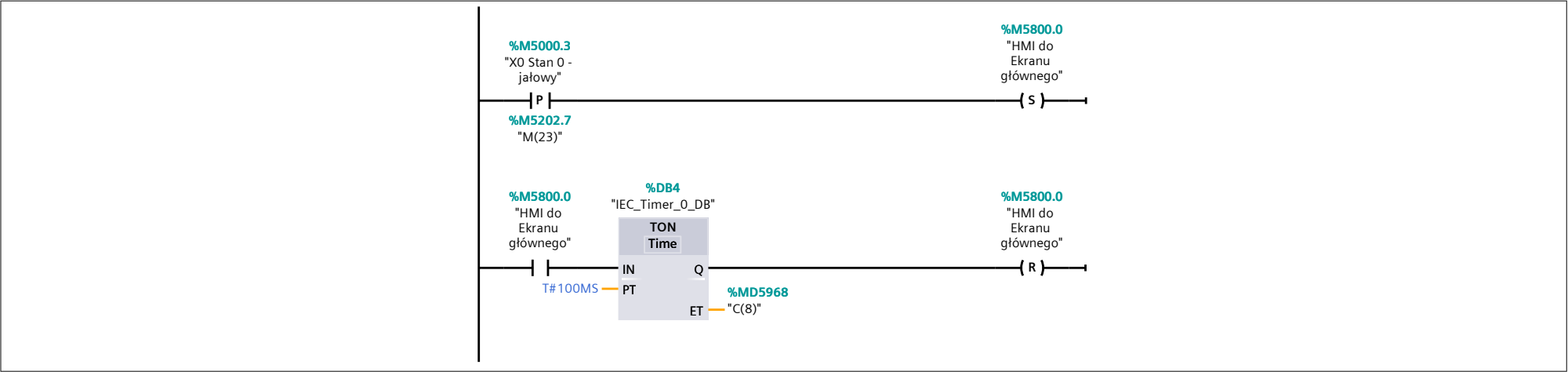
Name	Wyjścia HMI	Number	14	Type	FC	Language	LAD
Numbering	Automatic						

Information

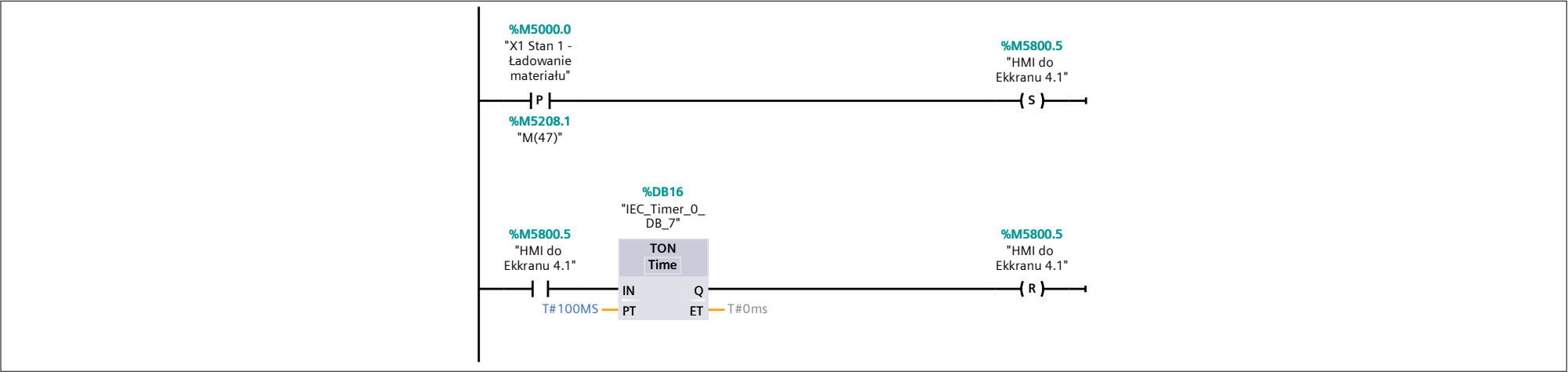
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

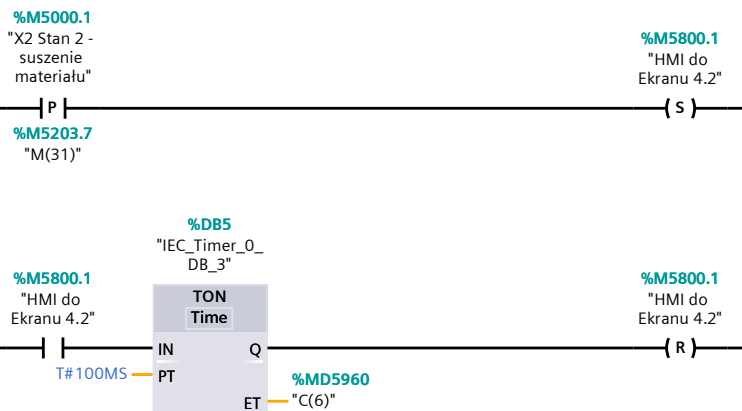
Network 1: Ustaw Ekran główny na hmi



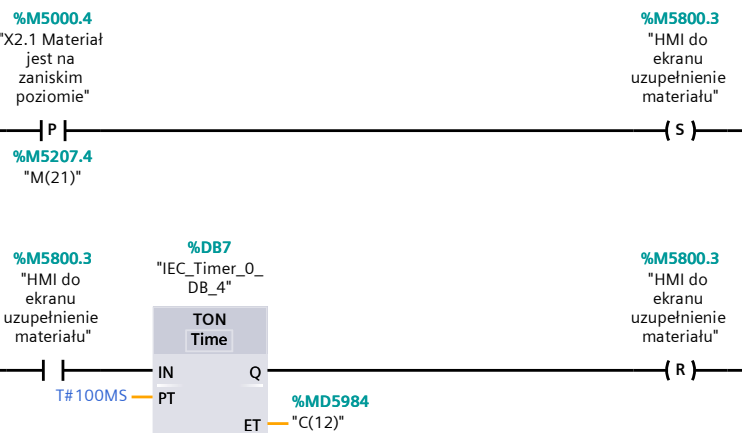
Network 2:



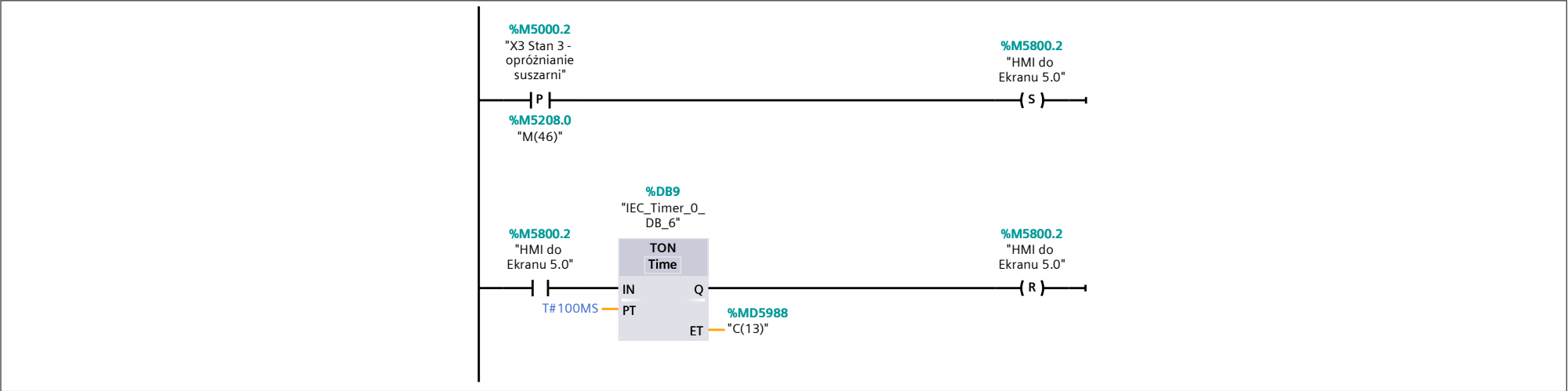
Network 3:



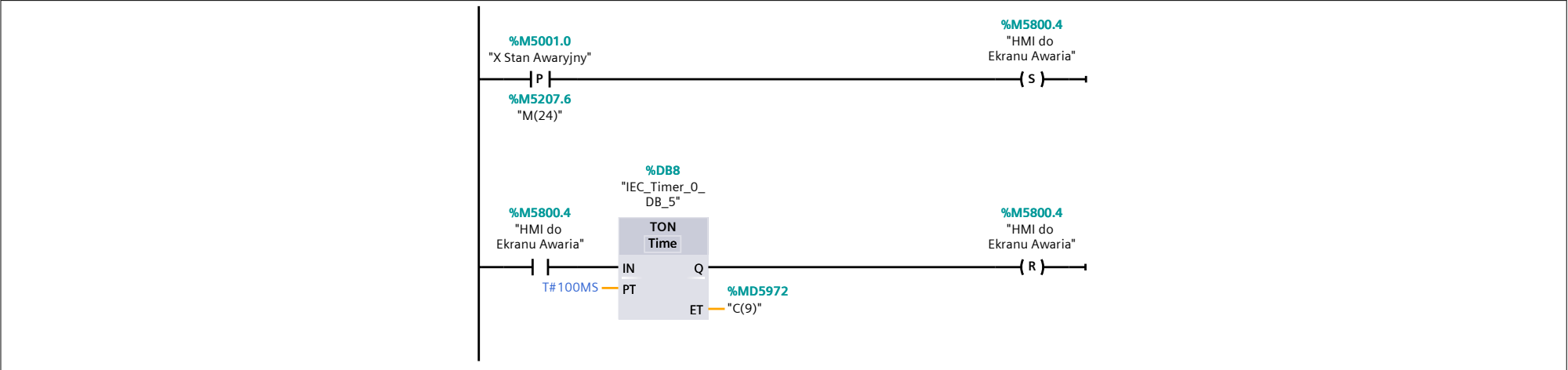
#### Network 4:



Network 5:



Network 6:



Totally Integrated Automation Portal		
<b>Network 7:</b>		
<div></div>		

Totally Integrated Automation Portal

Program blocks

Cyclic interrupt Czas suszenia [OB33]

Cyclic interrupt Czas suszenia Properties

General

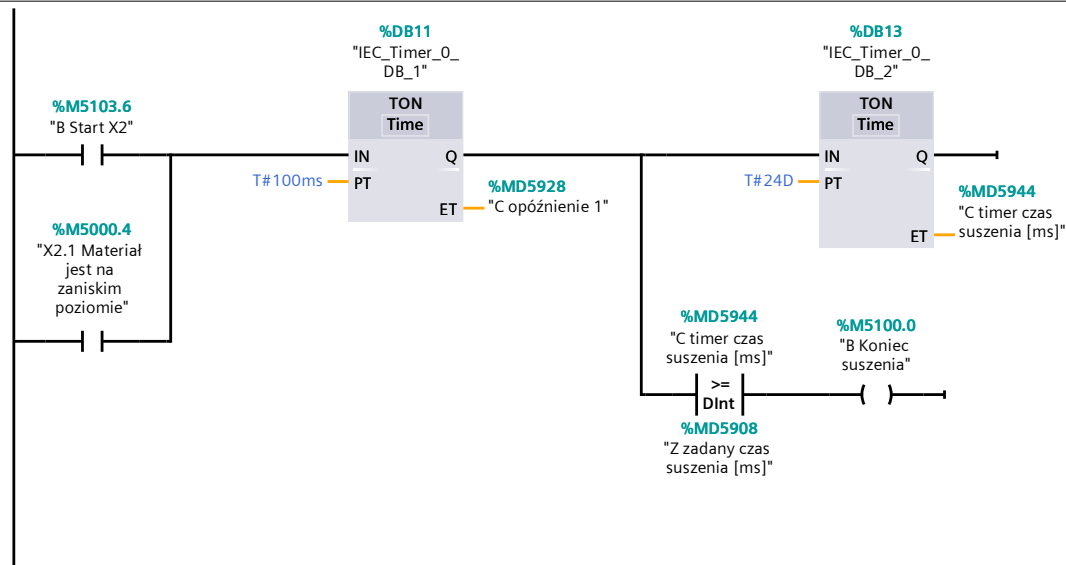
Name	Cyclic interrupt Czas suszenia	Number	33	Type	OB	Language	LAD
Numbering	Automatic						

Information

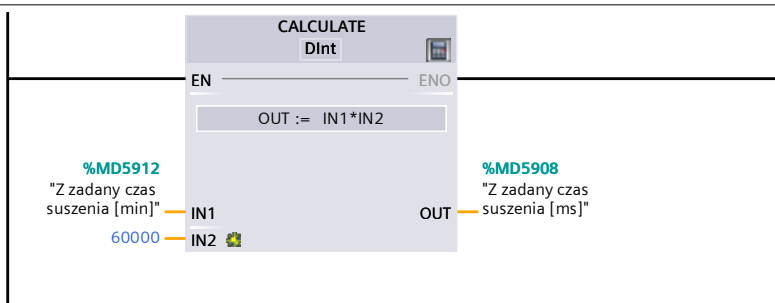
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

Network 1: Odliczanie do końca suszenia

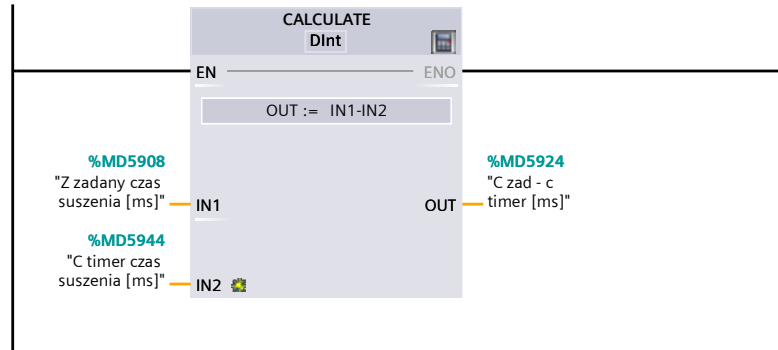


## Network 2: Przeliczenie zadanego czasu suszenia na ms

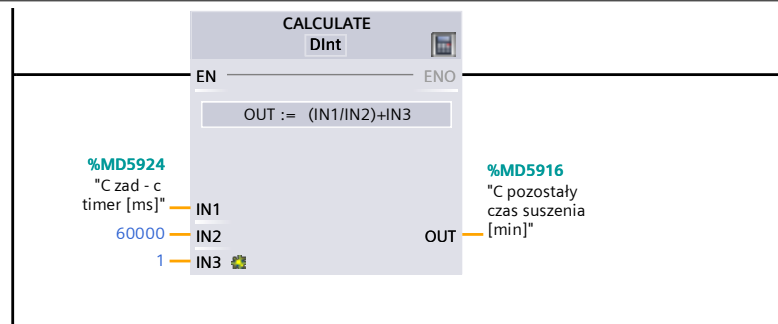


## Network 3: Obliczenie pozostałego czasu suszenia [ms]

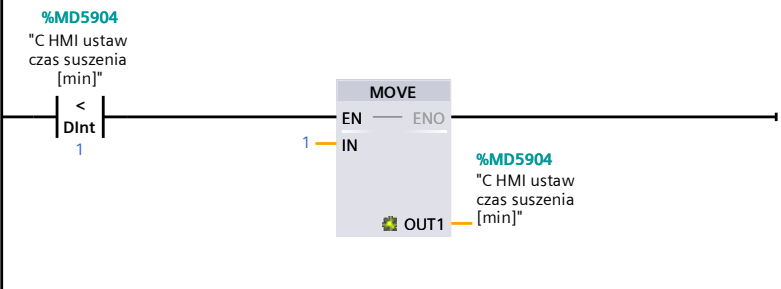




#### Network 4: Pozostały czas suszenia [min]



#### Network 5: Ograniczenia czasu suszenia



Program blocks

Opróżnianie Całego stanowiska [FC23]

Opróżnianie Całego stanowiska Properties

General

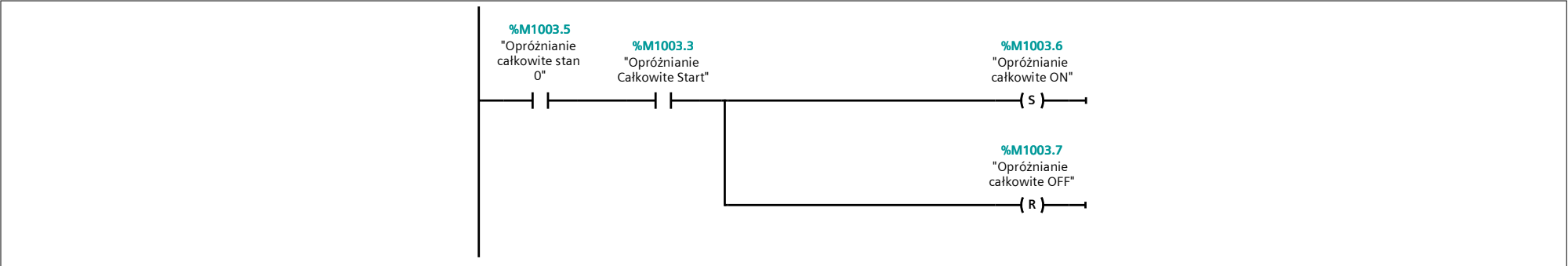
Name	Opróżnianie Całego stano-wiska	Number	23	Type	FC	Language	LAD
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

Network 1:



Totally Integrated Automation Portal		
Network 2:		
<div><div></div><div><div><div><div><div>%M1003.6 "Opróżnianie całkowite ON"</div><div>%M1003.4 "Opróżnianie Całkowite Stop"</div><div>%M1003.7 "Opróżnianie całkowite OFF"</div></div><div><div>(S)</div></div></div></div><div><div><div><div>%M1000.4 "Zbiornik 1 Pusty"</div><div>%M1001.5 "Zbiornik 2 Pusty"</div><div>%M1003.6 "Opróżnianie całkowite ON"</div></div><div><div>(R)</div></div></div></div></div></div>		
Network 3:		
<div><div></div><div><div><div><div><div>%M1003.6 "Opróżnianie całkowite ON"</div><div>%M1001.1 "Zbiornik 1 Opróżnianie"</div><div>%M1002.2 "Zbiornik 2 Opróżnianie"</div><div>%Q4.7 "Q Z5"</div></div><div><div>( )</div><div>( )</div><div>( )</div></div></div></div></div></div>		
Network 4: Logika stanu 0		

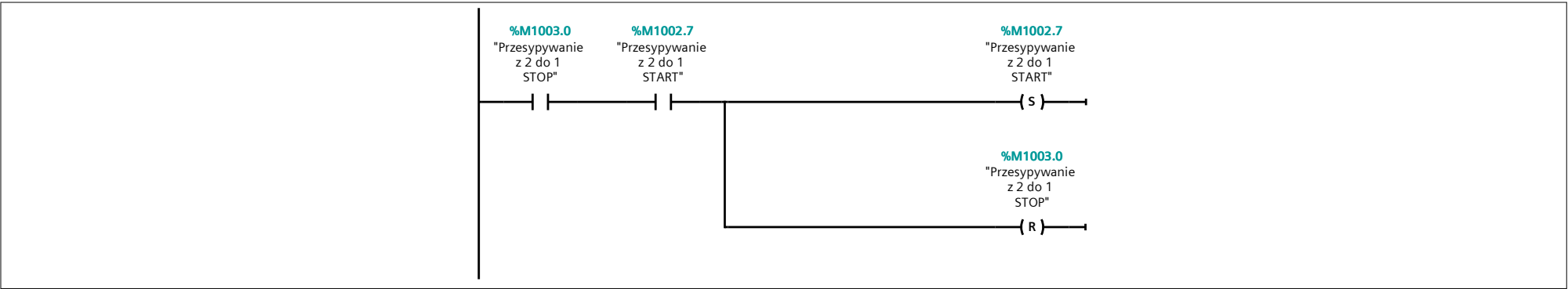
Totally Integrated Automation Portal		
	<div data-bbox="168 199 2157 405"><div><div><div>%M1002.0</div><div>"Zbiornik 2 stan 0"</div></div><div><div>%M1000.7</div><div>"Zbiornik 1 stan 0"</div></div><div><div>%M1003.5</div><div>"Opróżnianie całkowite stan 0"</div></div></div><div><div></div><div></div><div></div><div>( s )</div><div></div></div></div>	

Program blocks

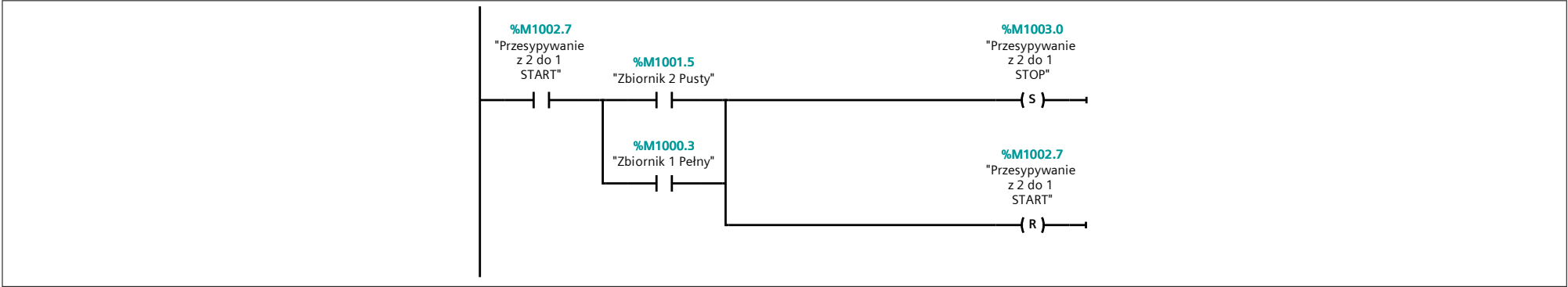
Przesypywanie z 2 do 1 zbiornika [FC21]

Przesypywanie z 2 do 1 zbiornika Properties							
General							
Name	Przesypywanie z 2 do 1 zbiornika	Number	21	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							
Przesypywanie z 2 do 1 zbiornika			Void				

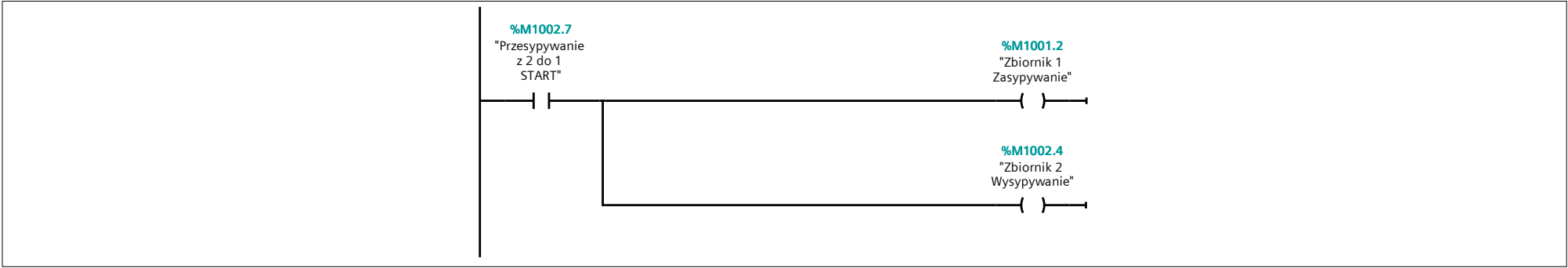
Network 1:



Network 2:



Network 3: Przycisk startujący proces opróżniania



Program blocks

Przesypywanie z 1 do 2 zbiornika [FC20]

Przesypywanie z 1 do 2 zbiornika Properties

General

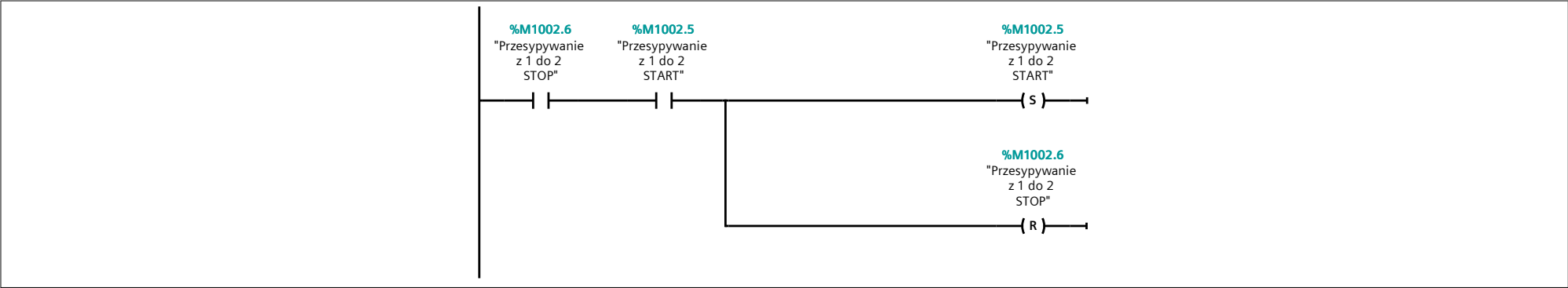
Name	Przesypywanie z 1 do 2 zbiornika	Number	20	Type	FC	Language	LAD
Numbering	Automatic						

Information

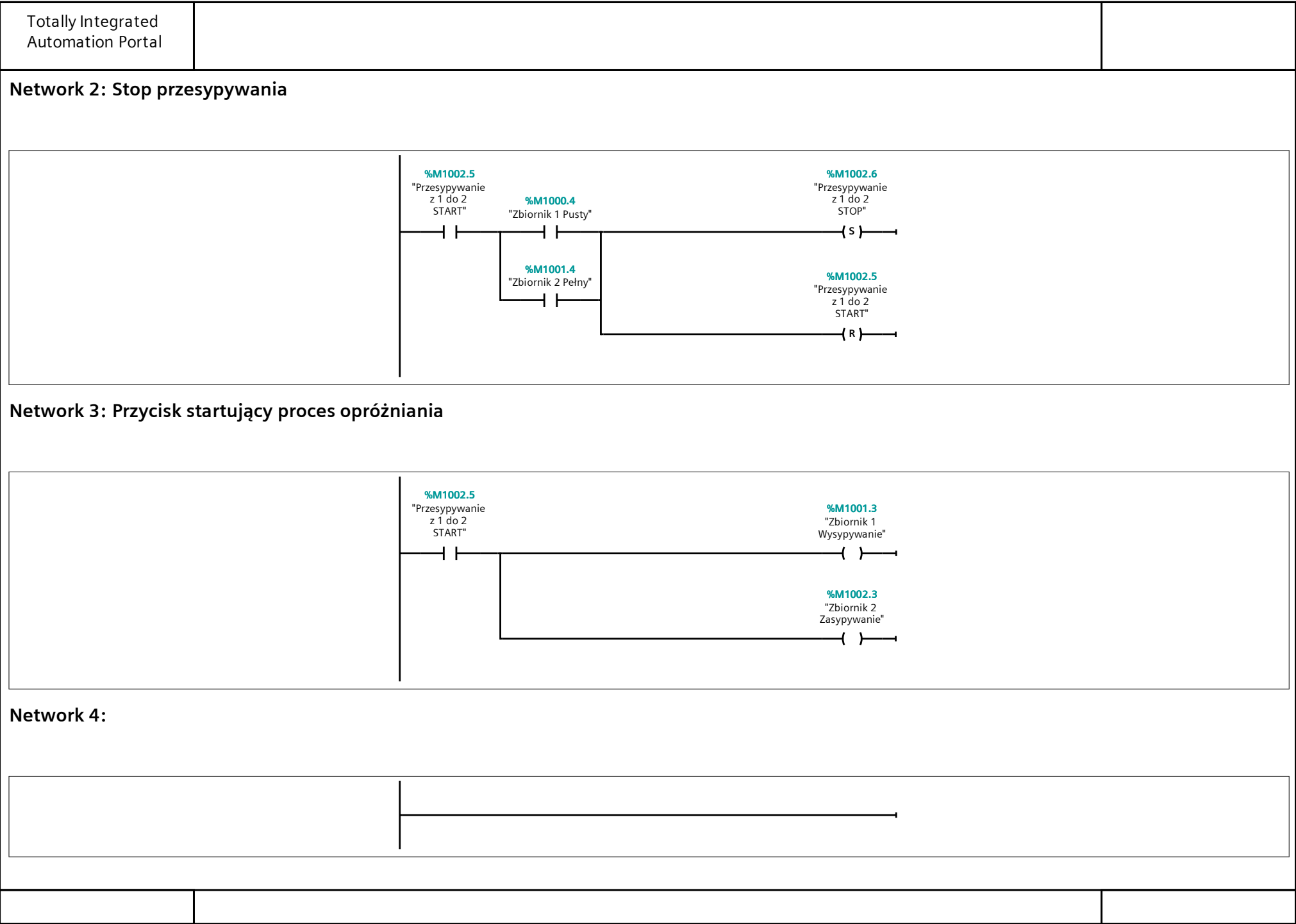
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

Network 1: Start Przesypywania







Totally Integrated Automation Portal		
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Program blocks

Transport [FC16]

Transport Properties

General

Name	Transport	Number	16	Type	FC	Language	LAD
Numbering	Automatic						

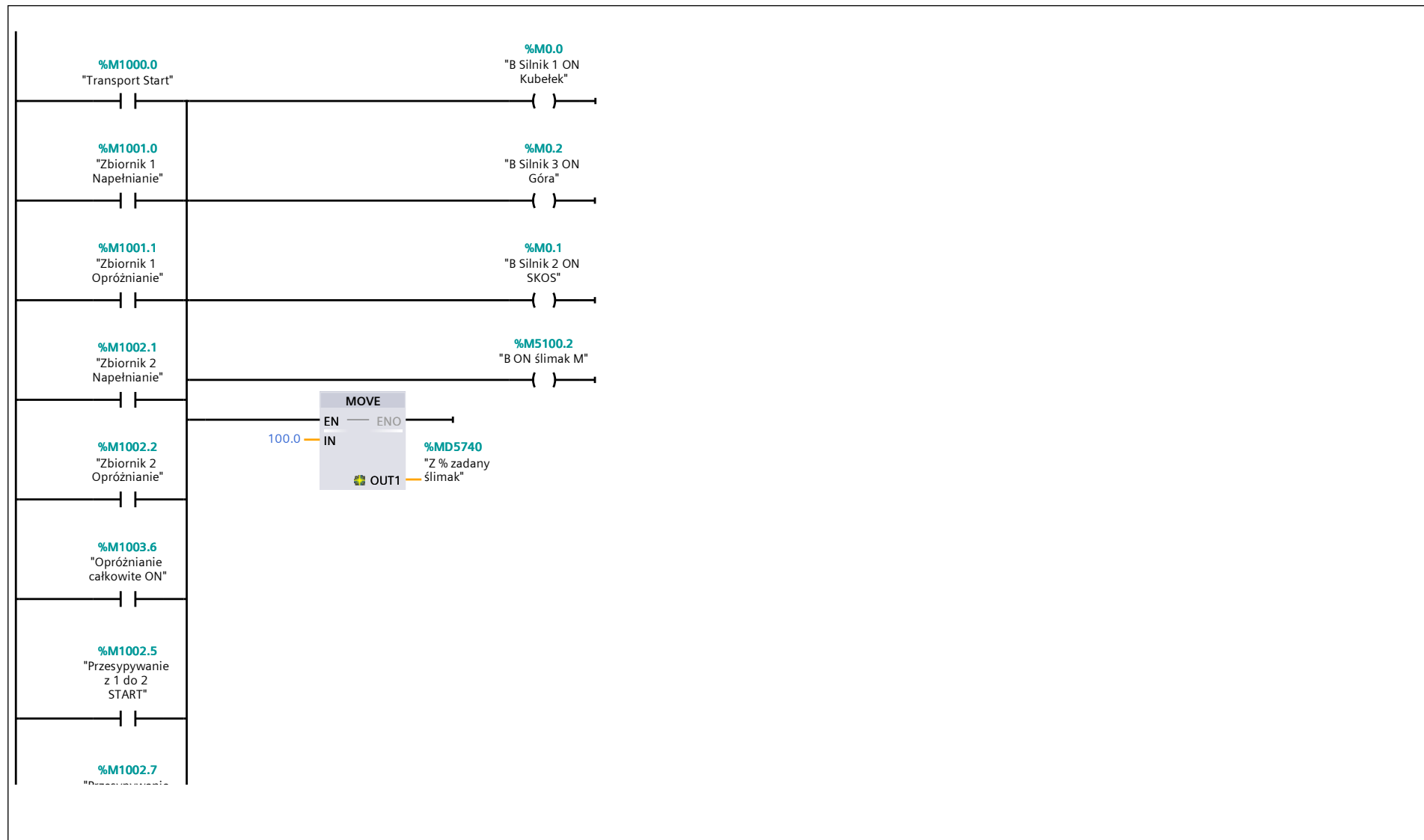
Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

Network 1:

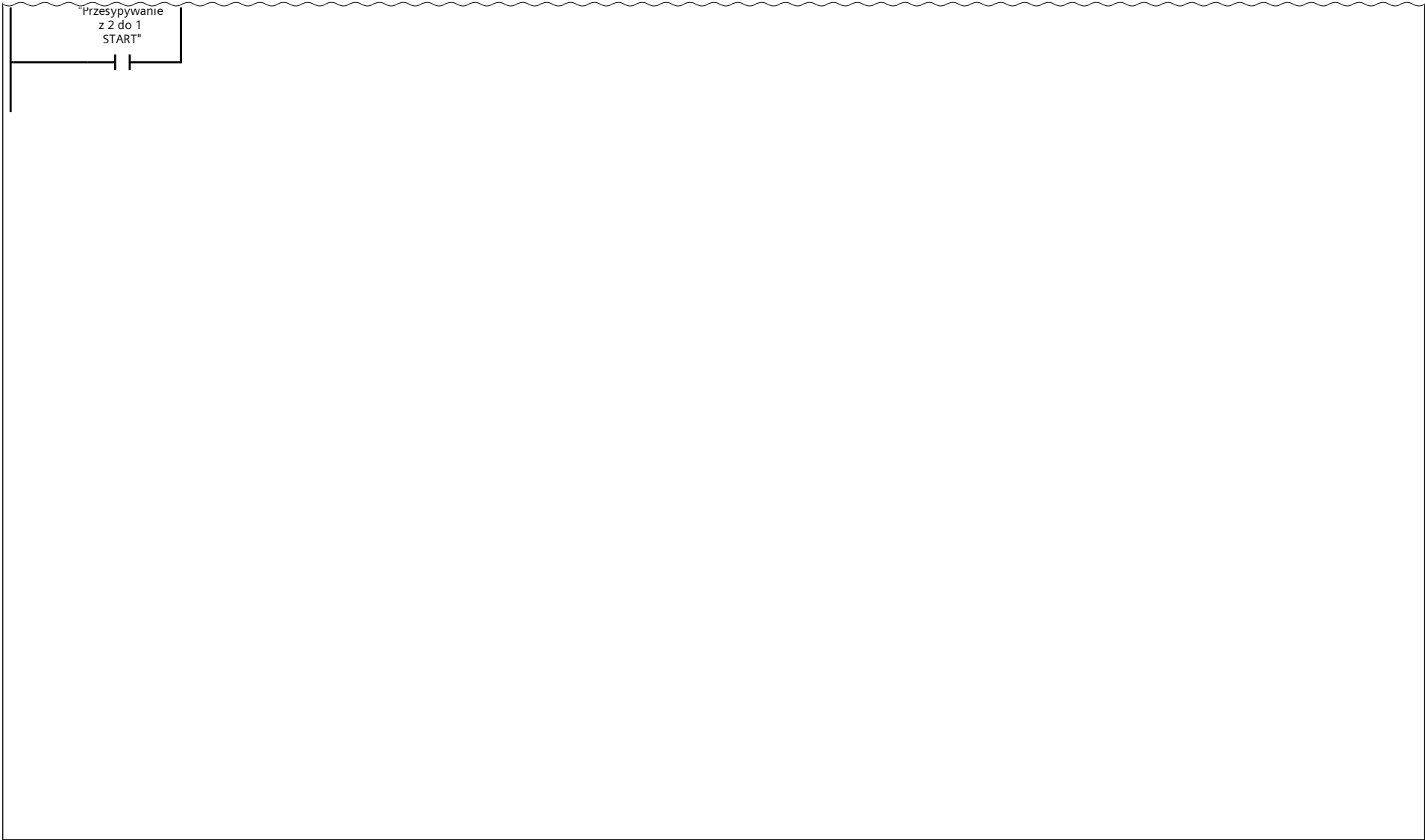
Network 1: (1.1 / 2.1)



Network 1: (2.1 / 2.1)

1.1 ( Page29 - 2)

"Przesypywanie  
z 2 do 1  
START"



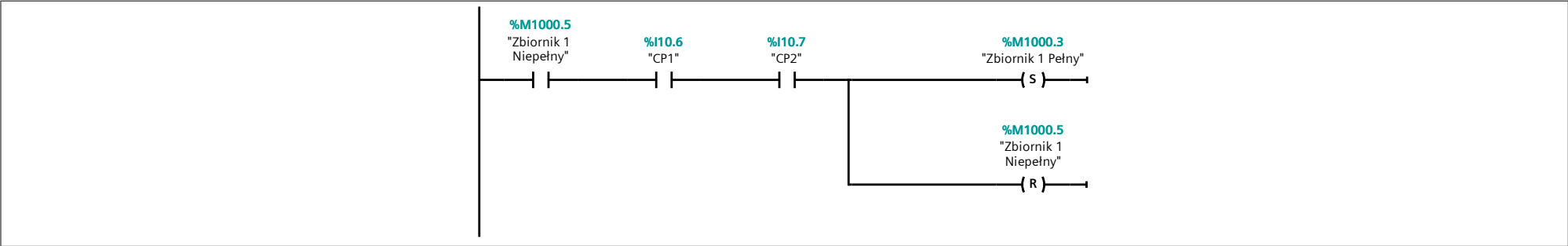
Program blocks

Zbiornik1 - Stany [FC17]

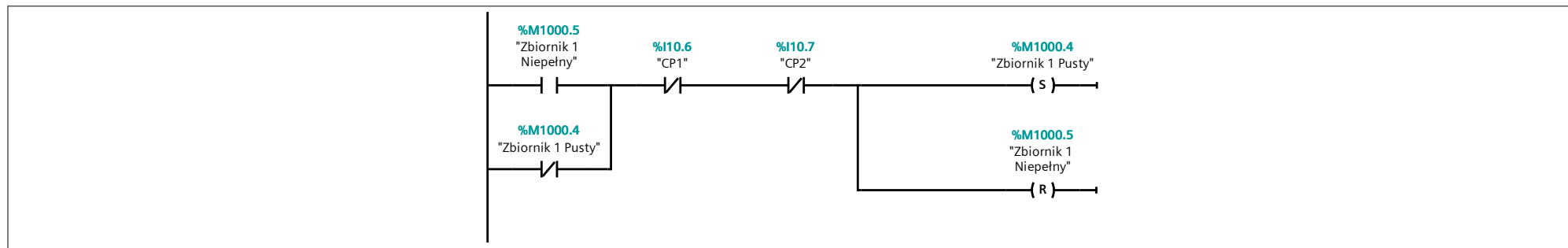
Zbiornik1 - Stany Properties							
General							
Name	Zbiornik1 - Stany	Number	17	Type	FC	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

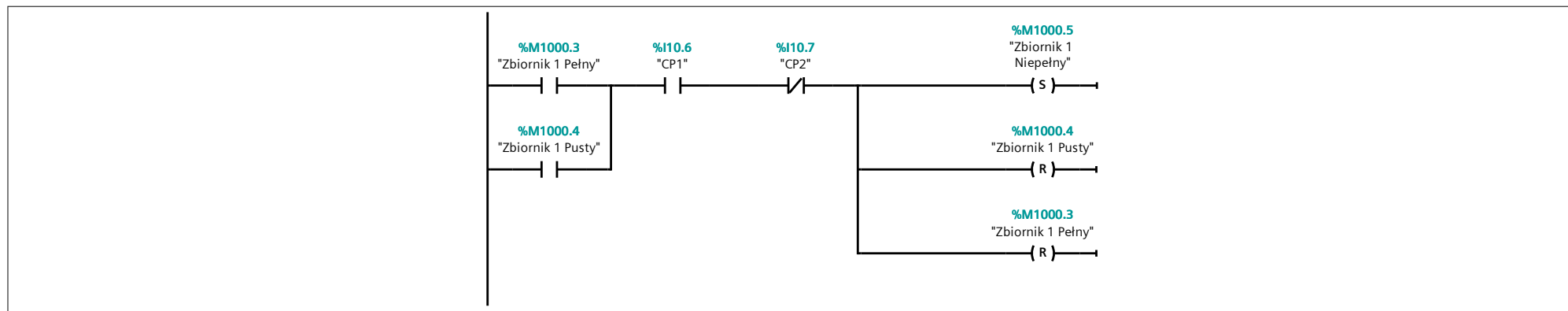
Network 1: Stan Pełny



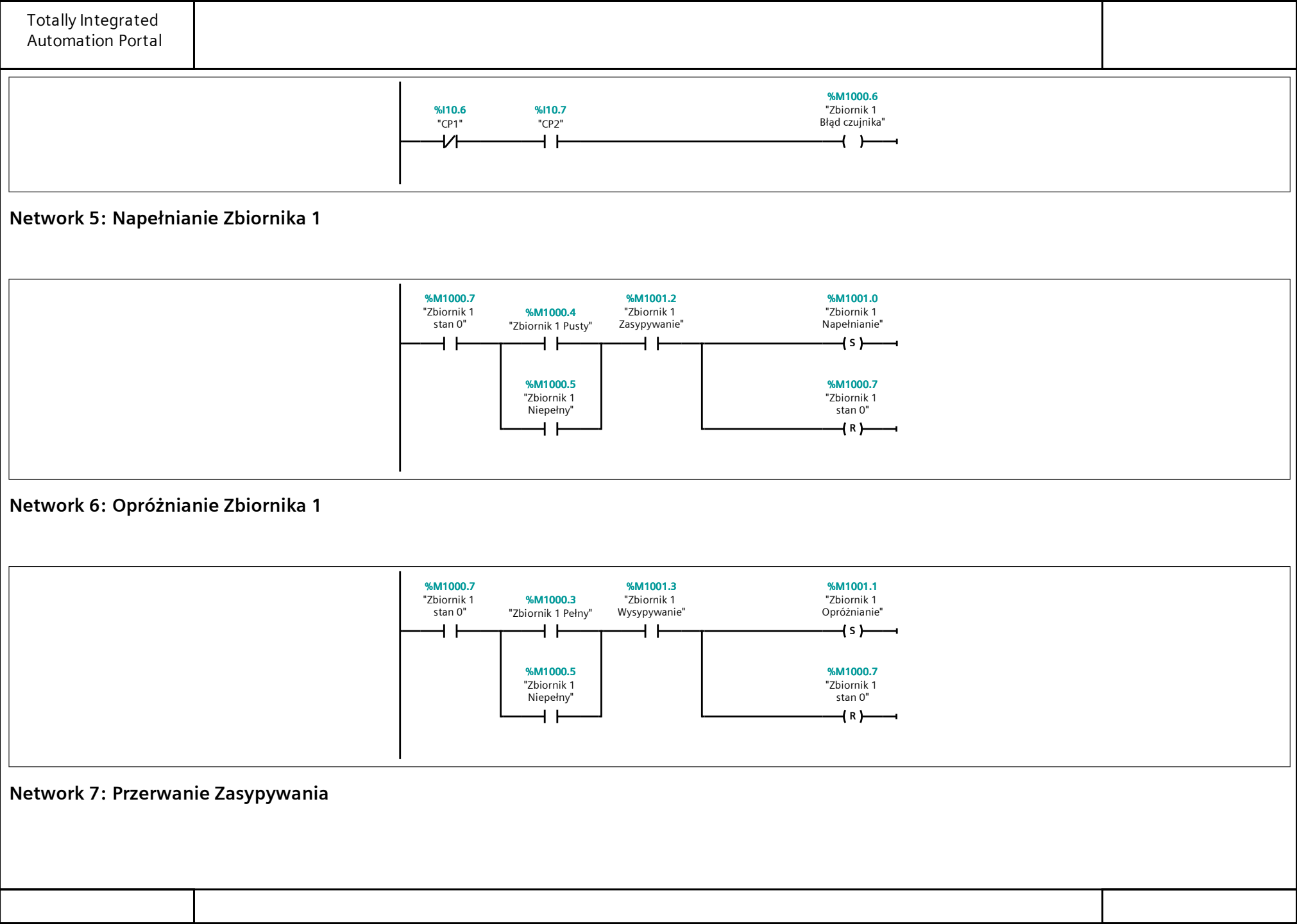
## Network 2: Stan Pusty

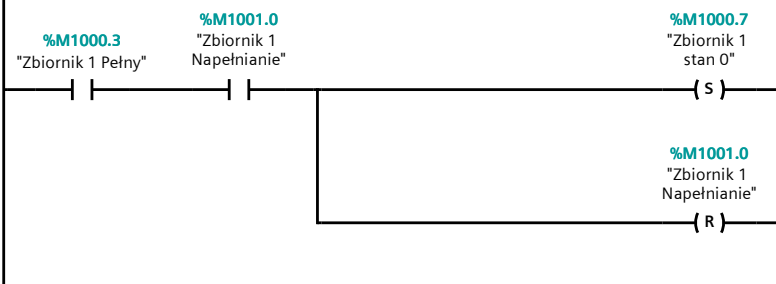


## Network 3: Stan Niepełny

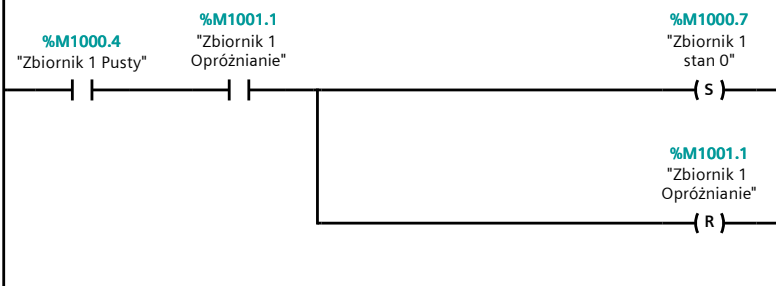


## Network 4: Błąd czujnika

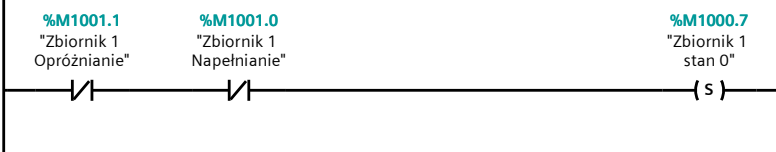




### Network 8: Przerwanie Opróżniania



### Network 9: Logika stanu 0





Totally Integrated Automation Portal

## Program blocks

### Zbiornik 1 - Wyjścia [FC19]

Zbiornik 1 - Wyjścia Properties

General

Name	Zbiornik 1 - Wyjścia	Number	19	Type	FC	Language	LAD
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

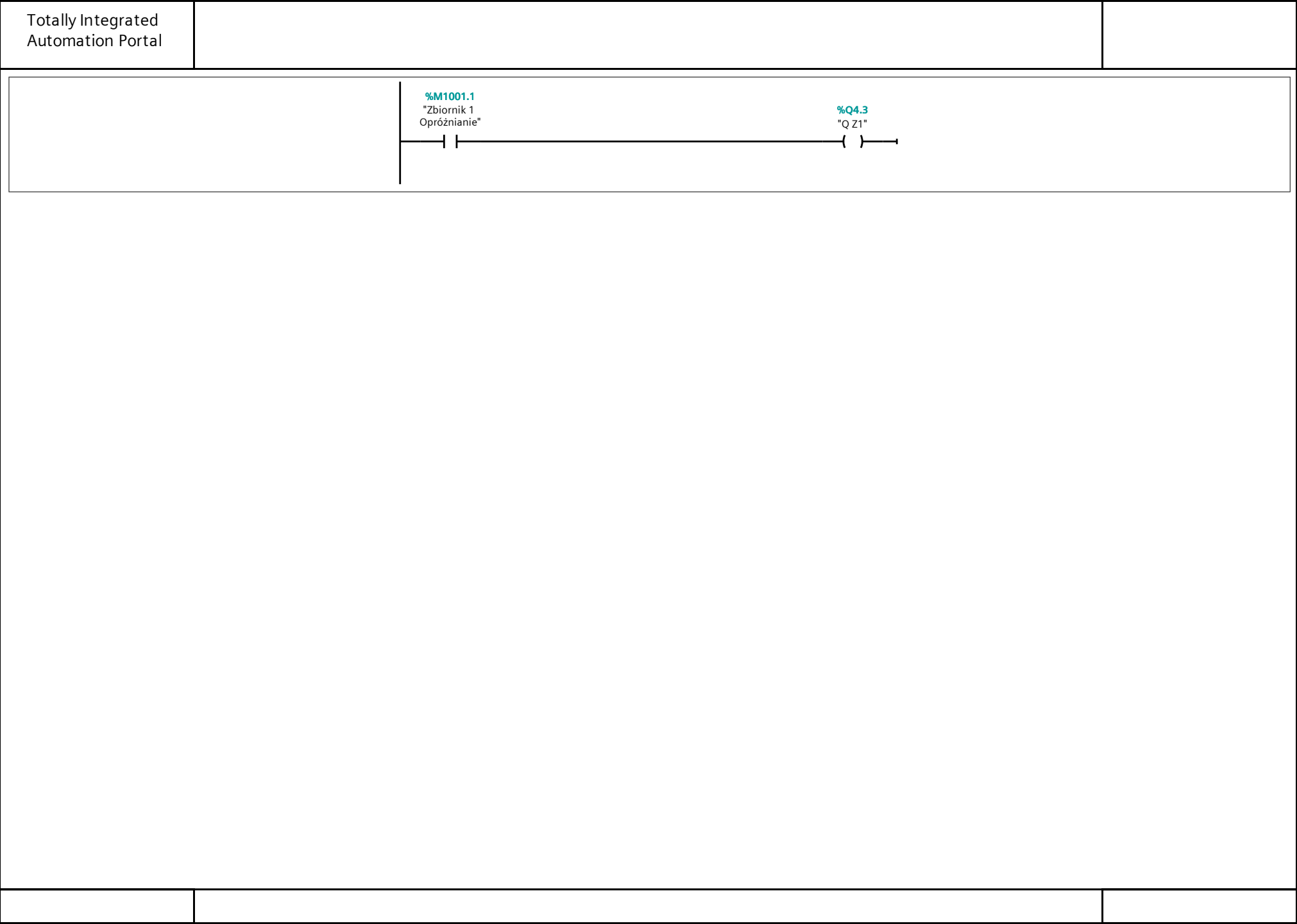
Name	Data type	Default value
Input		
Output		
InOut		
Temp		
Constant		
▼ Return		
Zbiornik 1 - Wyjścia	Void	

Network 1:

%M1001.0  
"Zbiornik 1  
Napełnianie"

%Q4.4  
"Q Z2"

Network 2:



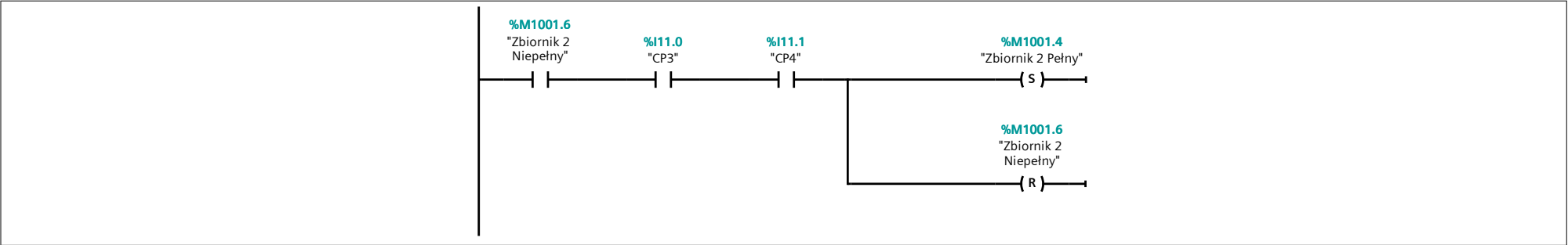
Program blocks

Zbiornik 2 - Stany [FC18]

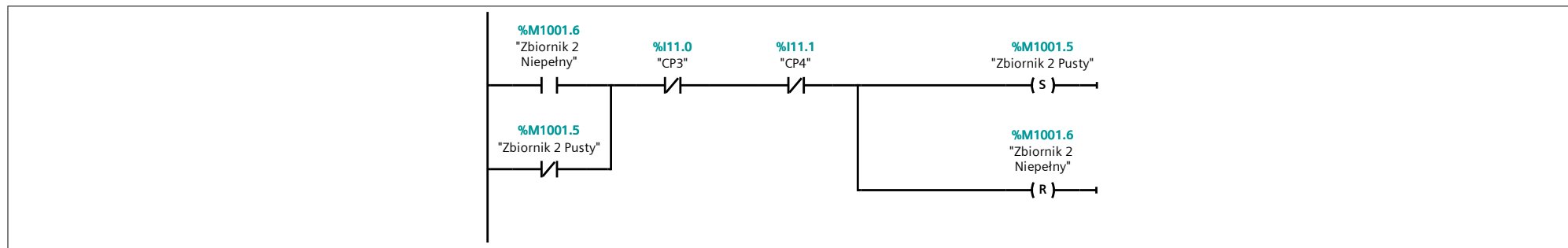
Zbiornik 2 - Stany Properties							
General							
Name	Zbiornik 2 - Stany	Number	18	Type	FC	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

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

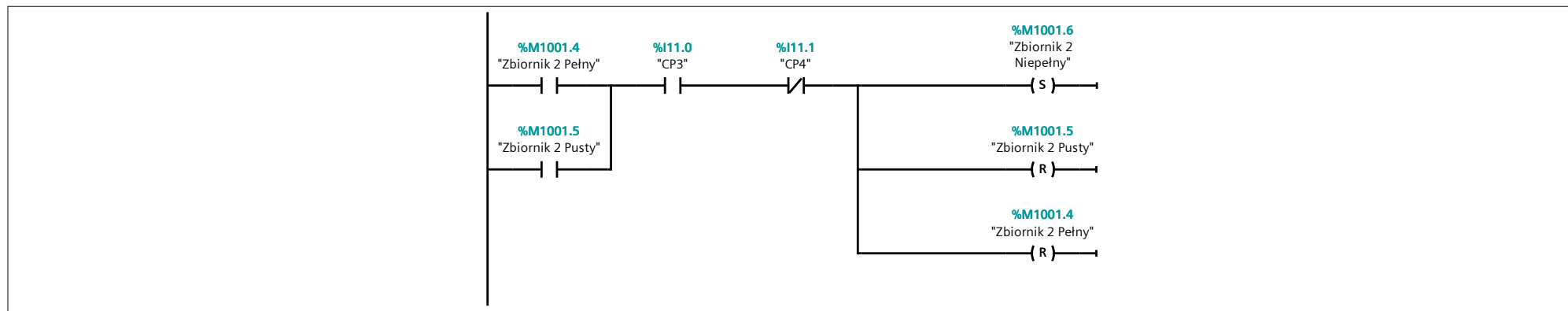
Network 1: Stan Pełny



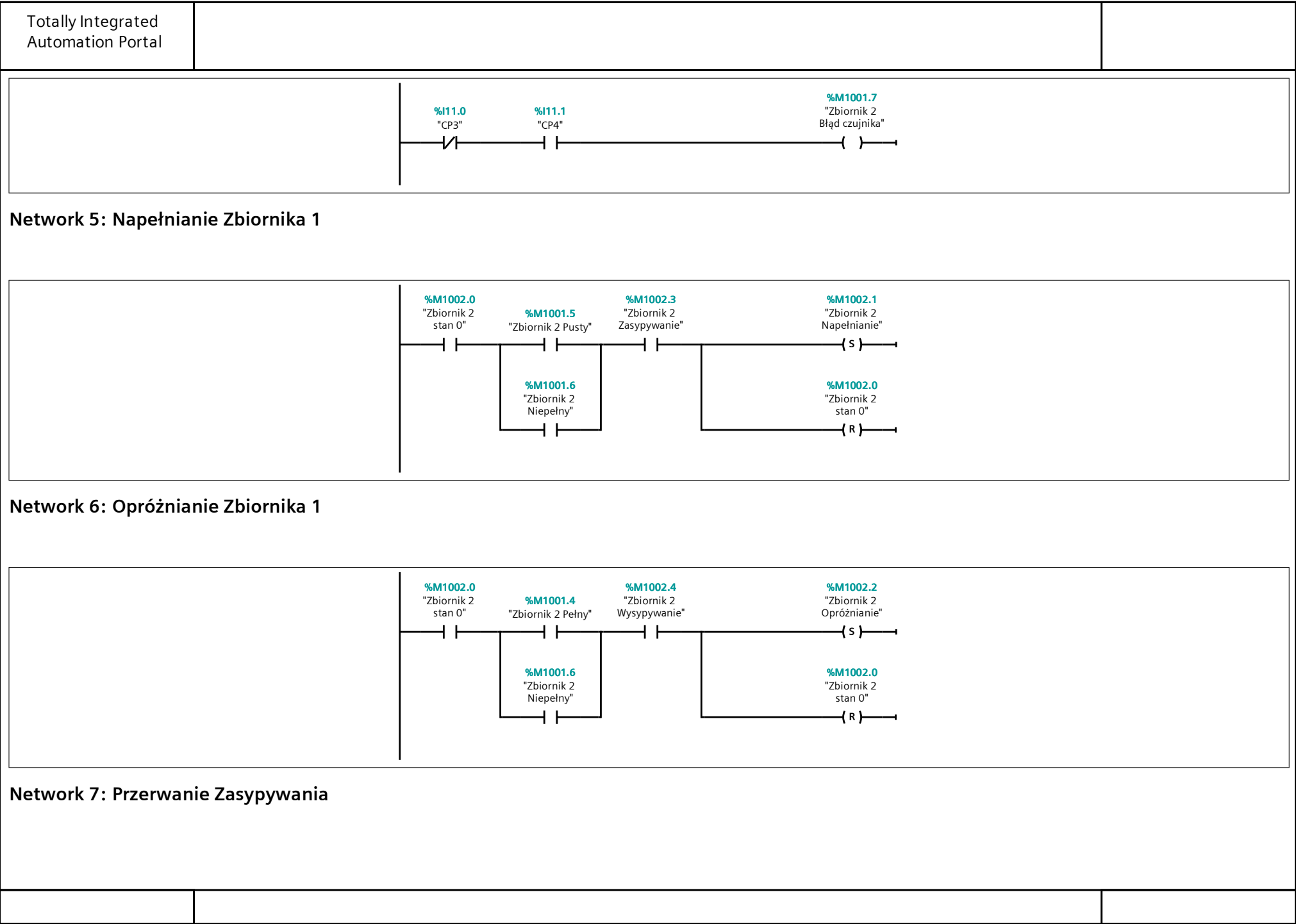
## Network 2: Stan Pusty

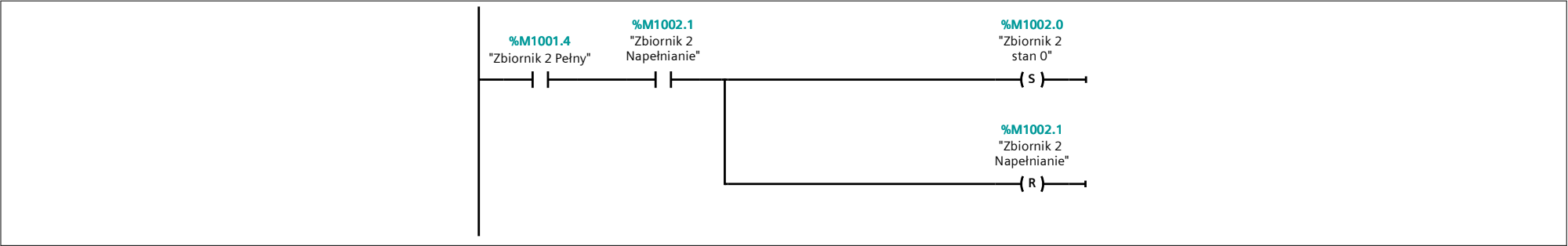


## Network 3: Stan Niepełny

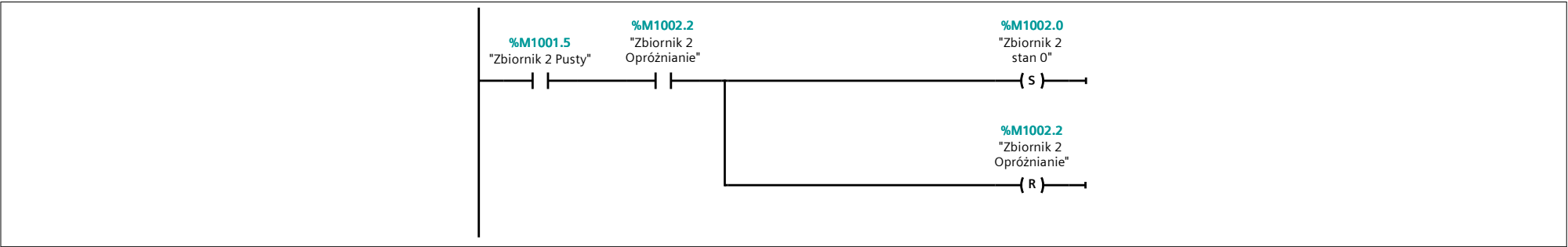


## Network 4: Błąd czujnika





## Network 8: Przerwanie Opróżniania



## Network 9: Logika stanu 0



Totally Integrated Automation Portal

Program blocks

Zbiornik 2 - Wyjścia [FC22]

Zbiornik 2 - Wyjścia Properties

General

Name	Zbiornik 2 - Wyjścia	Number	22	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		
Zbiornik 2 - Wyjścia	Void	

Network 1:

%M1002.1

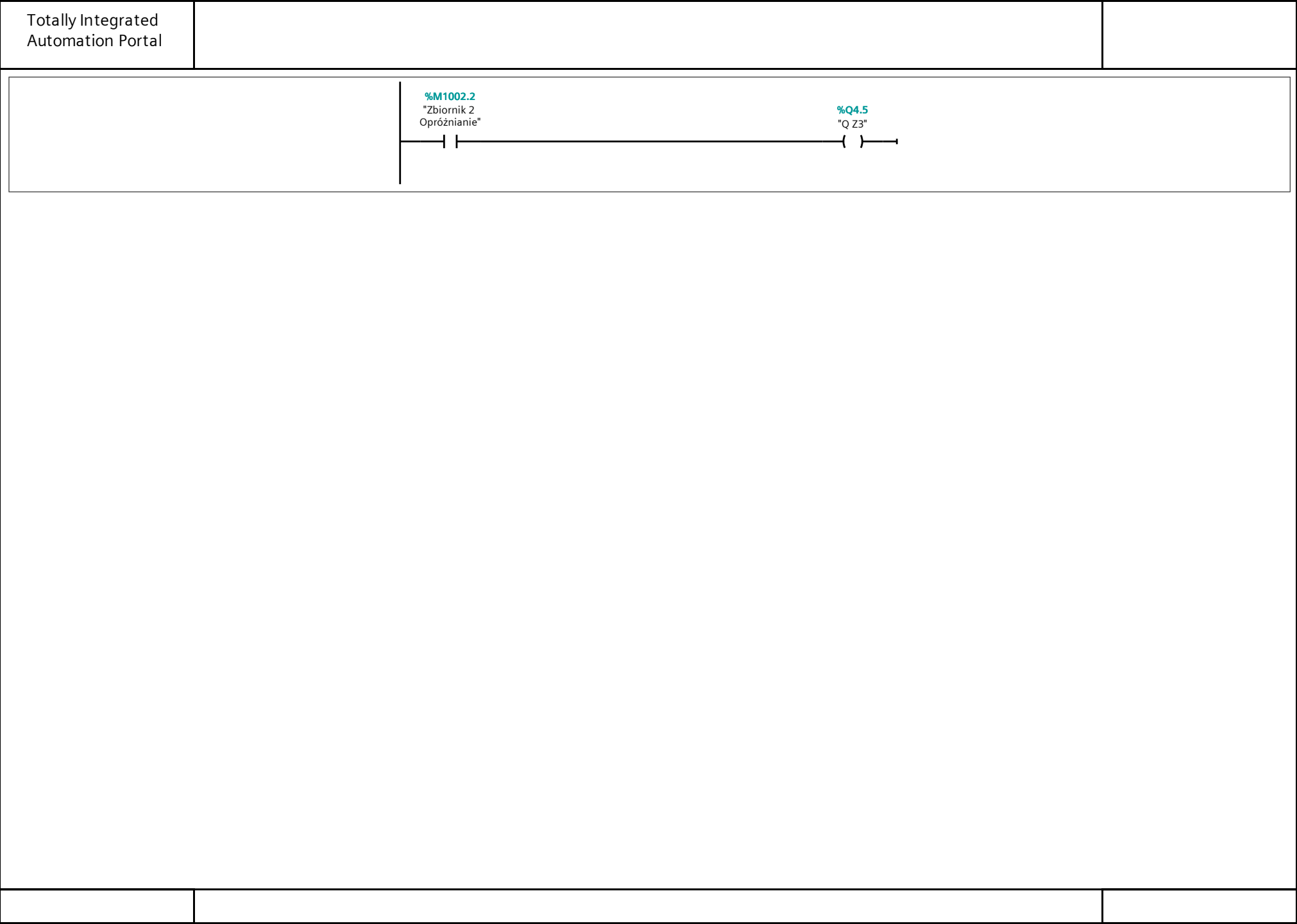
"Zbiornik 2

Napełnianie"

%Q4.6

"Q Z4"

Network 2:





Totally Integrated Automation Portal

## Program blocks

### Stany magazynowania [FC25]

Stany magazynowania Properties

General

Name	Stany magazynowania	Number	25	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		
Stany magazynowania	Void	

Network 1:

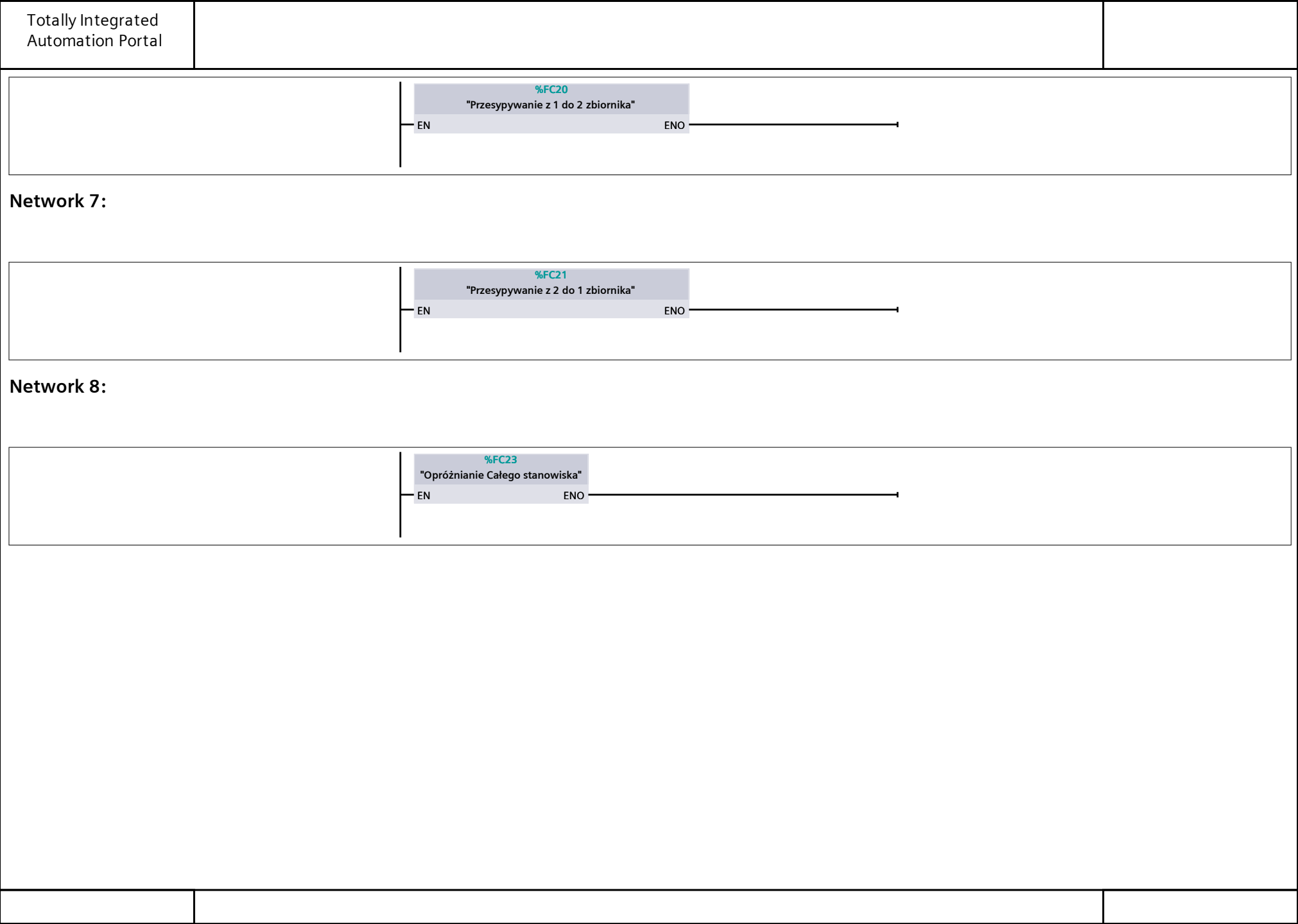
%FC17  
"Zbiornik1 - Stany"

EN

ENO

Network 2:

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<div><div></div><div><div><div>%FC19</div><div>"Zbiornik 1 - Wyjścia"</div></div><div>EN</div><div>ENO</div><div></div></div></div>		
Network 3:		
<div><div></div><div><div><div>%FC18</div><div>"Zbiornik 2 - Stany"</div></div><div>EN</div><div>ENO</div><div></div></div></div>		
Network 4:		
<div><div></div><div><div><div>%FC22</div><div>"Zbiornik 2 - Wyjścia"</div></div><div>EN</div><div>ENO</div><div></div></div></div>		
Network 5:		
<div><div></div><div><div><div>%FC16</div><div>"Transport"</div></div><div>EN</div><div>ENO</div><div></div></div></div>		
Network 6:		



Program blocks

Hardware interrupt [OB40]

Hardware interrupt Properties							
General							
Name	Hardware interrupt	Number	40	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value
▼ Input		
LADDR	HW_IO	
USI	Word	
IChannel	USInt	
EventType	Byte	
PointAddr	DWord	
Temp		
Constant		

Network 1:



## Program blocks / System blocks / Program resources

## PID\_Temp [FB1132]

## PID\_Temp Properties

## General

Name	PID_Temp	Number	1132	Type	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

Totally Integrated Automation Portal				
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				
InternalDiagnostic	DWord	0	Non-retain	
InternalVersion	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	

Totally Integrated Automation Portal																																												
<table><tr><th>Name</th><th>Data type</th><th>Default value</th><th>Retain</th></tr><tr><td>NoSlaveSubstituteSetpoint</td><td>Bool</td><td>true</td><td>Non-retain</td></tr><tr><td>Heat</td><td>PID_TempBasicOutputData</td><td></td><td>Non-retain</td></tr><tr><td>Cool</td><td>PID_TempBasicOutputData</td><td></td><td>Non-retain</td></tr><tr><td>Config</td><td>PID_TempConfig</td><td></td><td>Non-retain</td></tr><tr><td>CycleTime</td><td>PID_CycleTime</td><td></td><td>Non-retain</td></tr><tr><td>CtrlParamsBackUp</td><td>PID_TempControlParam-sHeatCool</td><td></td><td>Non-retain</td></tr><tr><td>PIDSelfTune</td><td>PID_TempSelfTune</td><td></td><td>Non-retain</td></tr><tr><td>PIDCtrl</td><td>PID_TempControl</td><td></td><td>Non-retain</td></tr><tr><td>Retain</td><td>PID_TempRetain</td><td></td><td>Retain</td></tr></table>					Name	Data type	Default value	Retain	NoSlaveSubstituteSetpoint	Bool	true	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
Name	Data type	Default value	Retain																																									
NoSlaveSubstituteSetpoint	Bool	true	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																																									

## Program blocks / System blocks / Program resources

### IEC\_Timer\_0\_DB\_1 [DB11]

#### IEC\_Timer\_0\_DB\_1 Properties

##### General

<b>Name</b>	IEC_Timer_0_DB_1	<b>Number</b>	11	<b>Type</b>	DB	<b>Language</b>	DB
<b>Numbering</b>	Automatic						

##### Information

<b>Title</b>		<b>Author</b>	Simatic	<b>Comment</b>		<b>Family</b>	IEC
<b>Version</b>	1.0	<b>User-defined ID</b>	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



## Program blocks / System blocks / Program resources

### IEC\_Timer\_0\_DB\_2 [DB13]

#### IEC\_Timer\_0\_DB\_2 Properties

##### General

<b>Name</b>	IEC_Timer_0_DB_2	<b>Number</b>	13	<b>Type</b>	DB	<b>Language</b>	DB
<b>Numbering</b>	Automatic						

##### Information

<b>Title</b>		<b>Author</b>	Simatic	<b>Comment</b>		<b>Family</b>	IEC
<b>Version</b>	1.0	<b>User-defined ID</b>	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

## Program blocks / System blocks / Program resources

### IEC\_Counter\_0\_DB\_2 [DB12]

#### IEC\_Counter\_0\_DB\_2 Properties

##### General

<b>Name</b>	IEC_Counter_0_DB_2	<b>Number</b>	12	<b>Type</b>	DB	<b>Language</b>	DB
<b>Numbering</b>	Automatic						

##### Information

<b>Title</b>		<b>Author</b>	Simatic	<b>Comment</b>		<b>Family</b>	IEC
<b>Version</b>	1.0	<b>User-defined ID</b>	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

Totally Integrated Automation Portal

Program blocks / System blocks / Program resources

IEC\_Counter\_0\_DB\_3 [DB14]

IEC\_Counter\_0\_DB\_3 Properties

General

Name	IEC_Counter_0_DB_3	Number	14	Type	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

Totally Integrated Automation Portal

Program blocks / System blocks / Program resources

IEC\_Counter\_0\_DB\_4 [DB10]

IEC\_Counter\_0\_DB\_4 Properties

General

Name	IEC_Counter_0_DB_4	Number	10	Type	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

Totally Integrated Automation Portal

Program blocks / System blocks / Program resources

IEC\_Counter\_0\_DB\_5 [DB15]

IEC\_Counter\_0\_DB\_5 Properties

General

Name	IEC_Counter_0_DB_5	Number	15	Type	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

Totally Integrated Automation Portal

Program blocks / System blocks / Program resources

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

Totally Integrated Automation Portal

Program blocks / System blocks / Program resources

IEC\_Timer\_0\_DB\_3 [DB5]

IEC\_Timer\_0\_DB\_3 Properties

General

Name	IEC_Timer_0_DB_3	Number	5	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

## Program blocks / System blocks / Program resources

## IEC\_Timer\_0\_DB\_4 [DB7]

## IEC\_Timer\_0\_DB\_4 Properties

## General

Name	IEC_Timer_0_DB_4	Number	7	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\_5 [DB8]

IEC\_Timer\_0\_DB\_5 Properties

General

Name	IEC_Timer_0_DB_5	Number	8	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\_6 [DB9]

IEC\_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\_7 Properties

General

Name	IEC_Timer_0_DB_7	Number	16	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\_8 [DB17]

IEC\_Timer\_0\_DB\_8 Properties

General

Name	IEC_Timer_0_DB_8	Number	17	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\_10 [DB19]

IEC\_Timer\_0\_DB\_10 Properties

General

Name	IEC_Timer_0_DB_10	Number	19	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