

Totally Integrated Automation Portal

Program blocks

SINA\_SPEED [FB285]

SINA\_SPEED Properties

General

Name	SINA_SPEED	Number	285	Type	FB	Language	SCL
Numbering	Automatic						







Totally Integrated Automation Portal		
<pre>0022 #sxSendBuf.STW1.%X1 := #ConfigAxis.%X0; 0023 #sxSendBuf.STW1.%X2 := #ConfigAxis.%X1; 0024 #sxSendBuf.STW1.%X3 := #ConfigAxis.%X2; 0025 #sxSendBuf.STW1.%X4 := #ConfigAxis.%X3; 0026 #sxSendBuf.STW1.%X5 := #ConfigAxis.%X4; 0027 #sxSendBuf.STW1.%X6 := #ConfigAxis.%X5; 0028 #sxSendBuf.STW1.%X10 := TRUE; 0029 #sxSendBuf.STW1.%X11 := #ConfigAxis.%X6; 0030 #sxSendBuf.STW1.%X7 := #AckError; 0031 0032 // Geschwindigkeit 0033 IF #RefSpeed &lt;&gt; 0 THEN 0034     #prVelocity := #SpeedSp * (16384.0 / #RefSpeed); 0035     // Limit REAL - Variable to INT - Limits 0036     IF #prVelocity &gt; 32767 THEN 0037         #prVelocity := 32767; 0038     ELSIF #prVelocity &lt; -32768 THEN 0039         #prVelocity := -32768; 0040     ELSE 0041         ; // not needed 0042     END_IF; 0043     #sxSendBuf.Velocity := INT_TO_WORD(REAL_TO_INT(#prVelocity)); 0044 0045 ELSE 0046     #sxSendBuf.Velocity := W#16#0; 0047 END_IF; 0048 #swSendBuf[0] := #sxSendBuf.STW1; 0049 #swSendBuf[1] := #sxSendBuf.Velocity; 0050 0051 //Prozessdaten zur Signalbaugruppe schreiben 0052 #piRetSFC := DPWR_DAT(LADDR := #HWIDSTW, 0053     RECORD := #swSendBuf); 0054 0055 // Fehler der Rückmeldung ausgeben 0056 #DiagId := INT_TO_WORD(#piRetSFC); 0057 0058 //kein Fehler beim Schreiben 0059 IF #piRetSFC = 0 THEN 0060 0061     //kein Fehler beim Schreiben 0062     IF #piRetSFC = 0 THEN 0063 0064         //Prozessdaten von der Signalbaugruppe lesen 0065         #piRetSFC := DPRD_DAT(LADDR := #HWIDZSW, 0066             RECORD =&gt; #swRecvBuf); 0067 0068         // Fehler der Rückmeldung ausgeben 0069         #DiagId := INT_TO_WORD(#piRetSFC); 0070     END_IF; 0071 0072     //Fehler beim Lesen (Profibus-Kommunikation unterbrochen) 0073     IF #piRetSFC &lt;&gt; 0 THEN 0074 0075         // Fehler 0076         #Error := TRUE; 0077         #Status := 16#8600; 0078 0079         // Zustandsworte löschen 0080         #sxRecvBuf.ZSW1.%X8 := 0; 0081         #sxRecvBuf.ZSW1.%X9 := 0; 0082         #sxRecvBuf.ZSW1.%X10 := 0; 0083         #sxRecvBuf.ZSW1.%X11 := 0; 0084         #sxRecvBuf.ZSW1.%X12 := 0; 0085         #sxRecvBuf.ZSW1.%X13 := 0; 0086         #sxRecvBuf.ZSW1.%X14 := 0; 0087         #sxRecvBuf.ZSW1.%X15 := 0; 0088         #sxRecvBuf.ZSW1.%X0 := 0; 0089         #sxRecvBuf.ZSW1.%X1 := 0; 0090         #sxRecvBuf.ZSW1.%X2 := 0; 0091         #sxRecvBuf.ZSW1.%X3 := 0; 0092         #sxRecvBuf.ZSW1.%X4 := 0; 0093         #sxRecvBuf.ZSW1.%X5 := 0; 0094         #sxRecvBuf.ZSW1.%X6 := 0; 0095         #sxRecvBuf.ZSW1.%X7 := 0; 0096 0097 0098         (*#sxRecvBuf.sxZSW1.SpDev := 0; 0099         #sxRecvBuf.sxZSW1.Pcd := 0; 0100         #sxRecvBuf.sxZSW1.Comp := 0; 0101         #sxRecvBuf.sxZSW1.CurLim := 0; 0102         #sxRecvBuf.sxZSW1.Brake := 0; 0103         #sxRecvBuf.sxZSW1.Motover := 0; 0104         #sxRecvBuf.sxZSW1.Dir := 0; 0105         #sxRecvBuf.sxZSW1.Invover := 0; 0106         #sxRecvBuf.sxZSW1.Rts := 0; 0107         #sxRecvBuf.sxZSW1.Rdy := 0; 0108         #sxRecvBuf.sxZSW1.IOp := 0; 0109         #sxRecvBuf.sxZSW1.Fault := 0;</pre>		

```
0110  #sxRecvBuf.sxZSW1.NoOff2 := 0;
0111  #sxRecvBuf.sxZSW1.NoOff3 := 0;
0112  #sxRecvBuf.sxZSW1.Inhibit := 0;
0113  #sxRecvBuf.sxZSW1.Alarm := 0;*)
0114
0115  #sxRecvBuf.Velocity := W#16#00;
0116
0117  // Werte auslesen
0118  ELSE
0119  #sxRecvBuf.ZSW1 := #swRecvBuf[0];
0120  #sxRecvBuf.Velocity := #swRecvBuf[1];
0121
0122  // ZSW1 aufbereiten
0123  #AxisEnabled := #sxRecvBuf.ZSW1.%X2;
0124  #Error := #sxRecvBuf.ZSW1.%X3 OR #sxRecvBuf.ZSW1.%X6;
0125  #Lockout := #sxRecvBuf.ZSW1.%X6;
0126
0127  // Fehler auswerten
0128  IF #sxRecvBuf.ZSW1.%X3 THEN
0129    #Status := 16#8401;
0130  ELSIF #sxRecvBuf.ZSW1.%X6 THEN
0131    #Status := 16#8402;
0132  ELSE
0133    #Status := 16#7002;
0134  END_IF;
0135
0136  (*#Busy := #sxRecvBuf.sxZSW1.IOp;
0137  #Error := #sxRecvBuf.sxZSW1.Fault OR #sxRecvBuf.sxZSW1.Inhibit;
0138  #PwrInhibit := #sxRecvBuf.sxZSW1.Inhibit;
0139
0140  // Fehler auswerten
0141  IF #sxRecvBuf.sxZSW1.Fault THEN
0142    #ErrorId := 1;
0143  ELSIF #sxRecvBuf.sxZSW1.Inhibit THEN
0144    #ErrorId := 2;
0145  ELSE
0146    #ErrorId := 0;
0147  END_IF;*)
0148
0149  // Geschwindigkeit
0150  IF #RefSpeed <> 0 THEN
0151    #ActVelocity := INT_TO_REAL(WORD_TO_INT(#sxRecvBuf.Velocity)) / (16384.0 / #RefSpeed);
0152  ELSE
0153    #ActVelocity := 0.0;
0154  END_IF;
0155  END_IF;
0156 ELSE
0157
0158  // Fehler
0159  #Error := TRUE;
0160  #Status := 16#8601;
0161
0162 END_IF;
0163
0164
0165
```

Symbol	Address	Type	Comment
#AckError		Bool	1 = Acknowledge drive error
#ActVelocity		Real	Actual in [U/min]
#AxisEnabled		Bool	1 = Drive is enabled
#ConfigAxis.%X0		Bool	binary programmed input to control all functions in the telegram without its own function block input
#ConfigAxis.%X1		Bool	binary programmed input to control all functions in the telegram without its own function block input
#ConfigAxis.%X2		Bool	binary programmed input to control all functions in the telegram without its own function block input
#ConfigAxis.%X3		Bool	binary programmed input to control all functions in the telegram without its own function block input
#ConfigAxis.%X4		Bool	binary programmed input to control all functions in the telegram without its own function block input
#ConfigAxis.%X5		Bool	binary programmed input to control all functions in the telegram without its own function block input
#ConfigAxis.%X6		Bool	binary programmed input to control all functions in the telegram without its own function block input
#DiagId		Word	Error codes of the cyclic system funtion blocks DPWR / DPRD_DAT
#EnableAxis		Bool	0-->1; 1 = Enable the drive (OFF2 / OFF 3 are 1 in default status) (OFF1 = 0-->1)
#Error		Bool	1 = Error (FB and Infeed)
#HWIDSTW		HW_IO	Hardware Identifier set point slot
#HWIDZSW		HW_IO	Hardware Identifier actual value slot
#Lockout		Bool	1 = Drive lockout active
#piRetSFC		Int	Status for fault analysis
#prVelocity		Real	velocity
#RefSpeed		Real	Standardisation factor of speed
#SpeedSp		Real	Speed standardises with the standardisation factor
#Status		Word	Status output (7002 = FB in operation; 8xxx = error description - read the manual)
#swRecvBuf		Array	Empfangspuffer Static variables















Program blocks

Main [OB1]

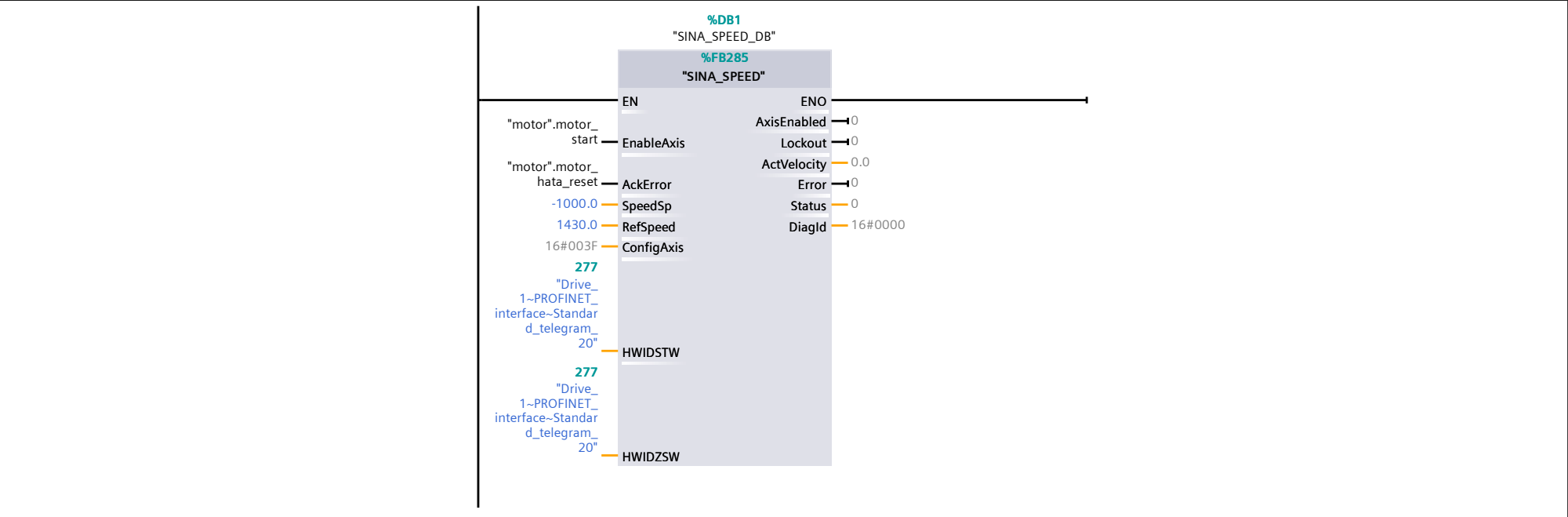
Main Properties							
General							
Name	Main	Number	1	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

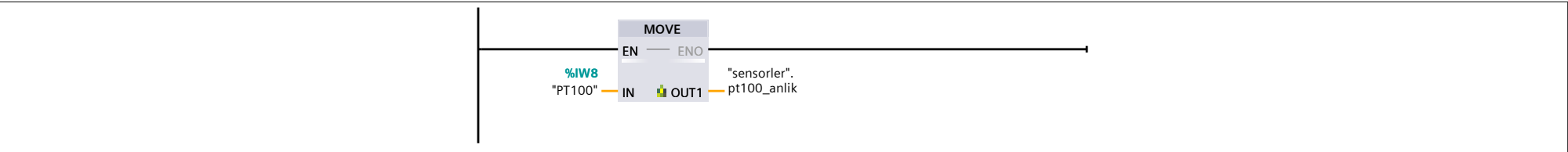
Network 1: motorekranstart



Network 2: motor start sinaspeed

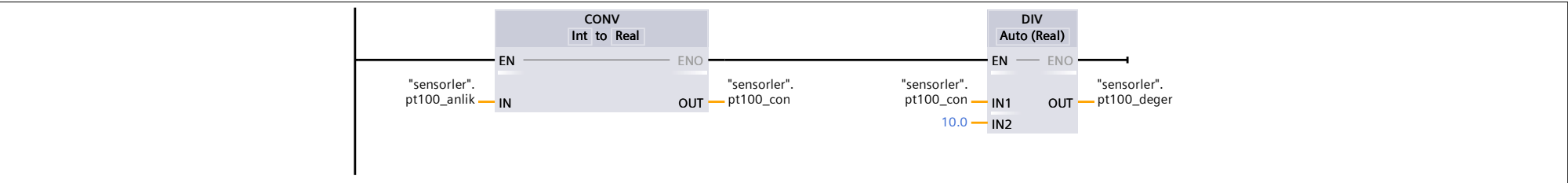


Network 3: pt100move



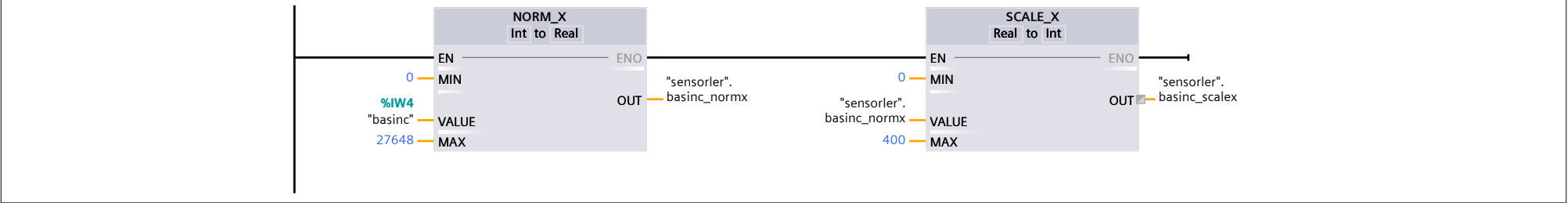
Network 4: pt100div

Gelen\_Degeri\_10 a Böl

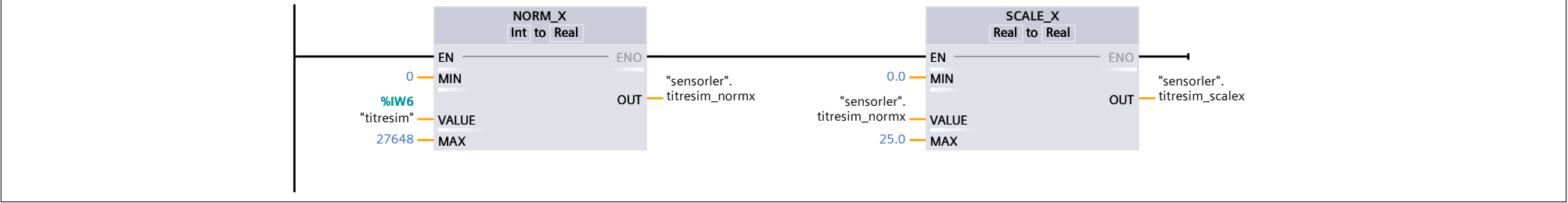


Network 5: basıncnormscale

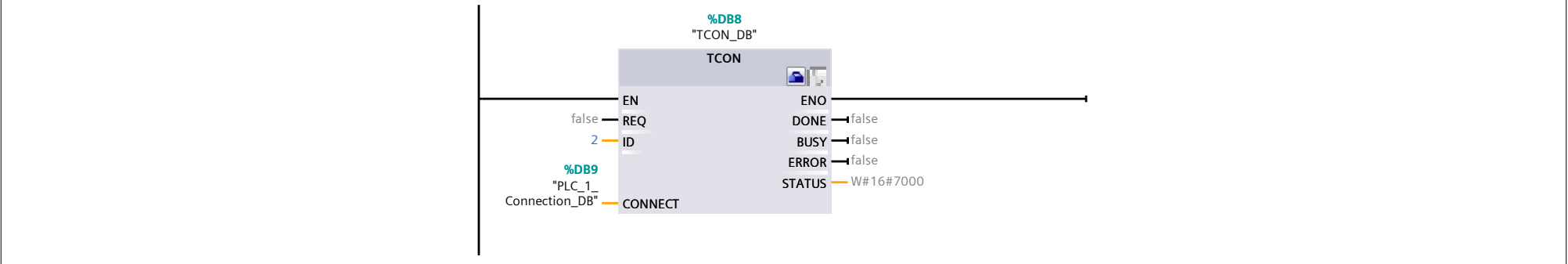
Gelen\_Degeri\_10 a Böl



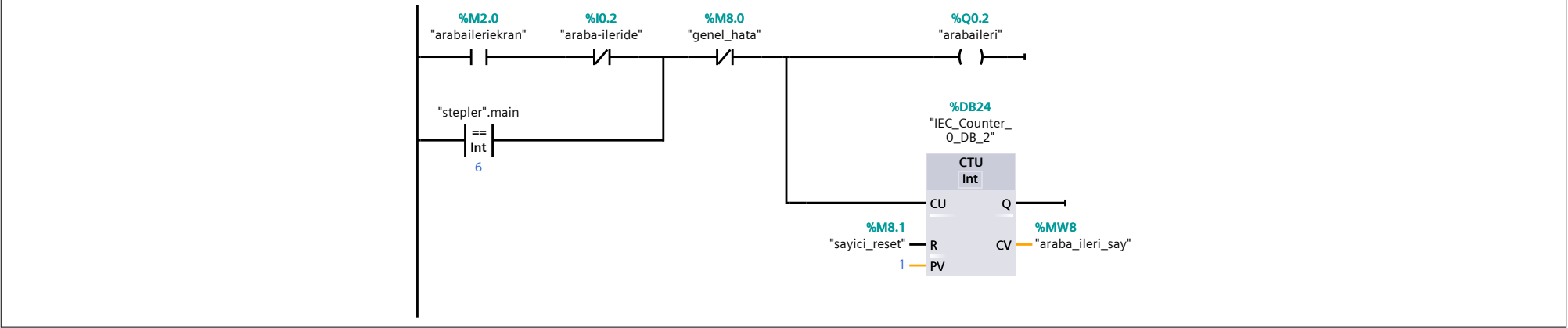
Network 6: titresimnormscale



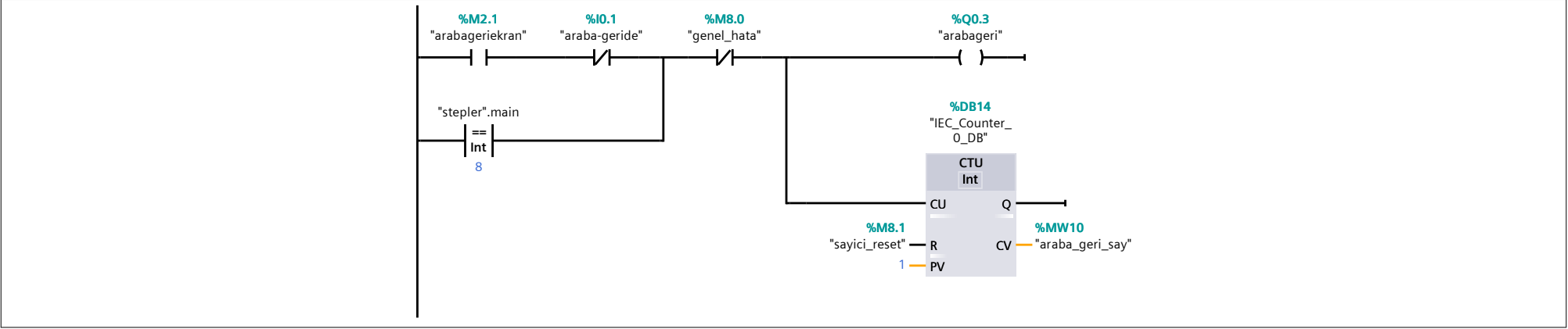
Network 7: deltaekran-tcon



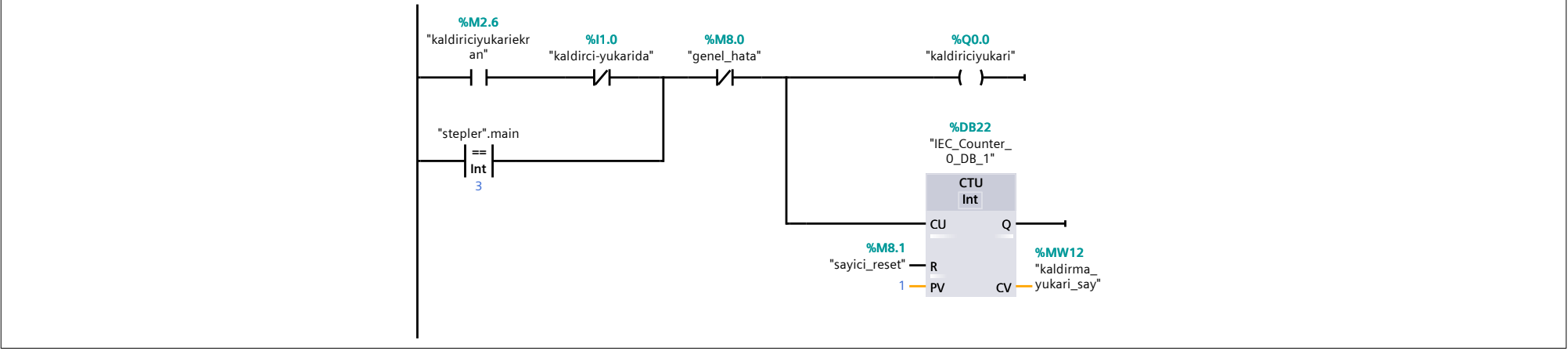
Network 8: araba ileri hareket



Network 9: araba geri hareket

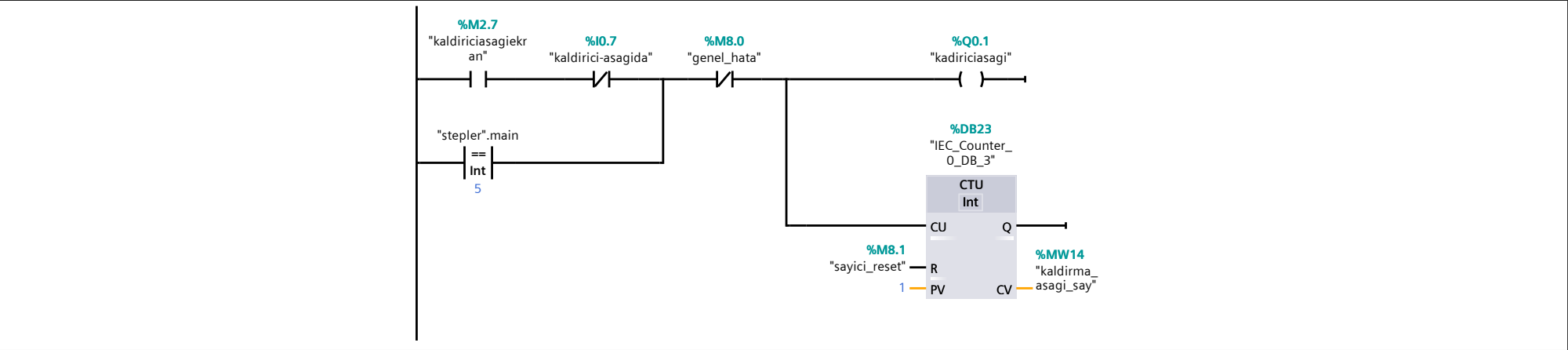


Network 10: kaldirma yukari hareket

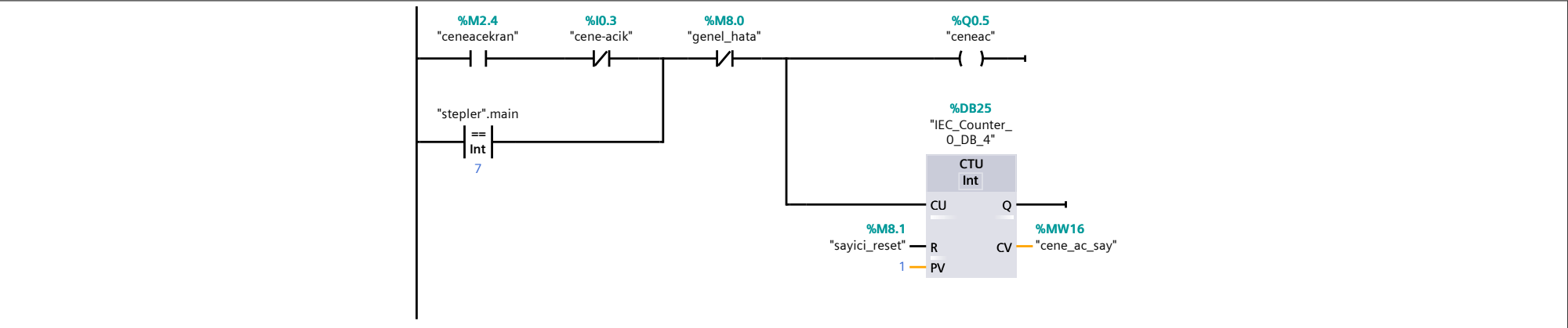




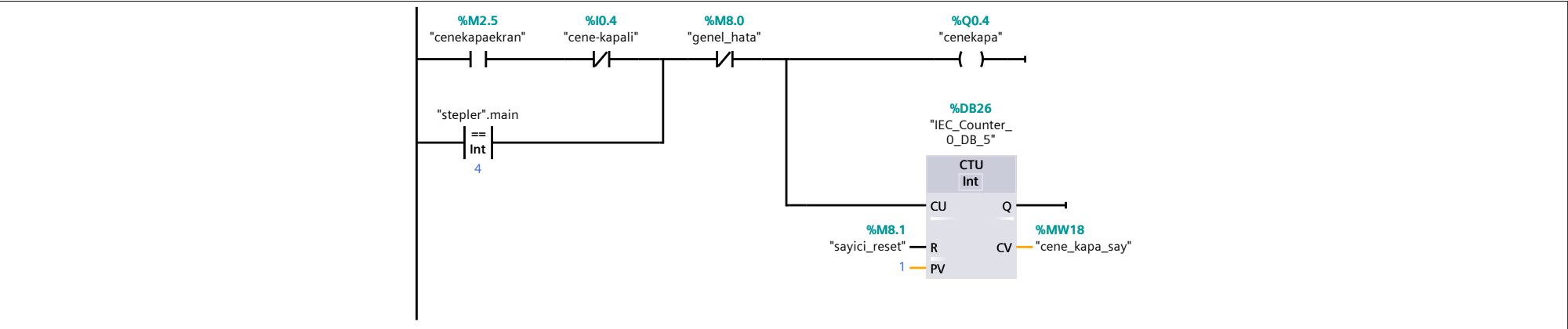
Network 11: kaldirm asagi hareket



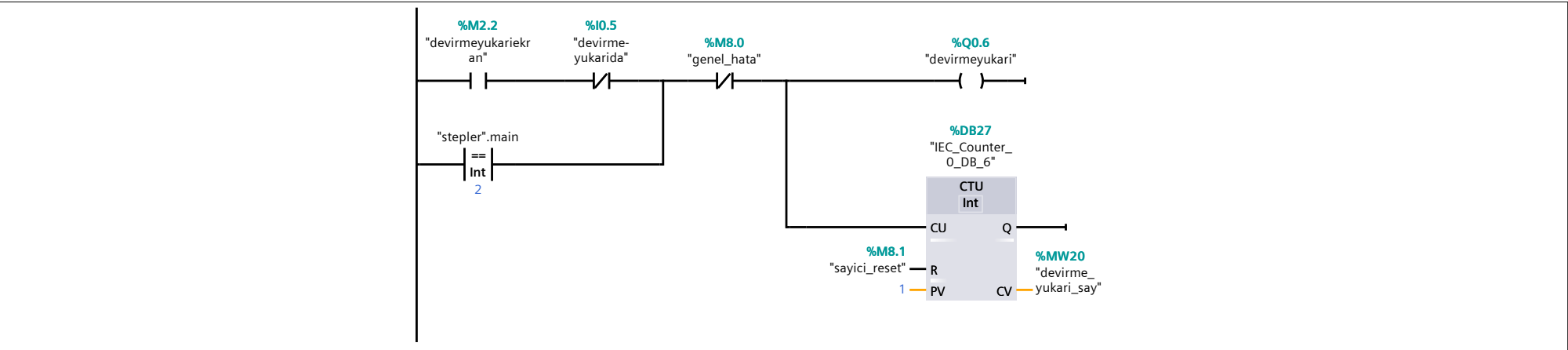
Network 12: cene ac



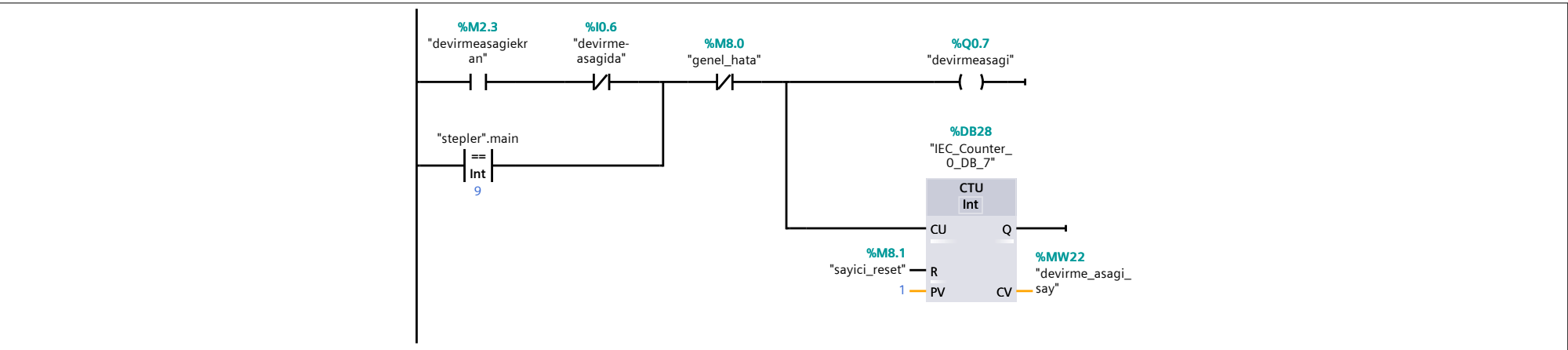
Network 13: cene kapa



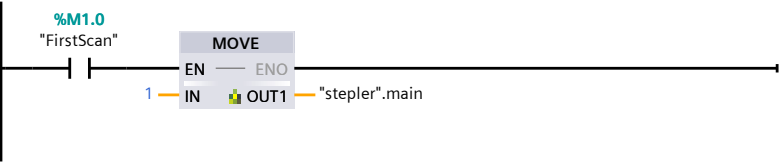
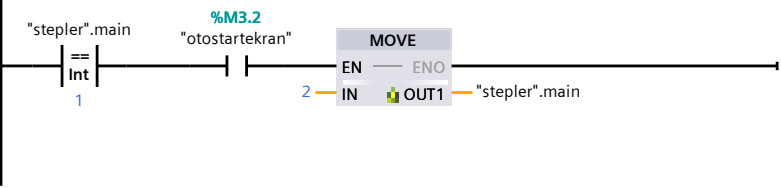
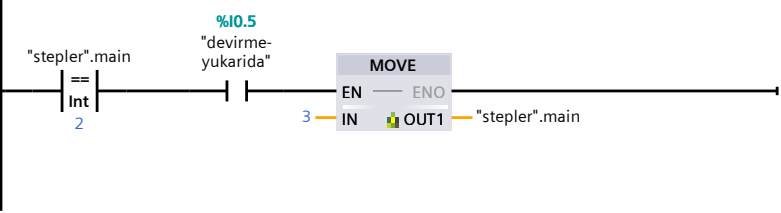
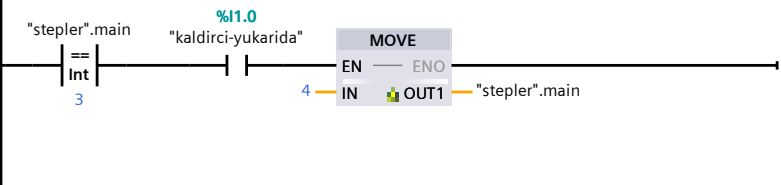
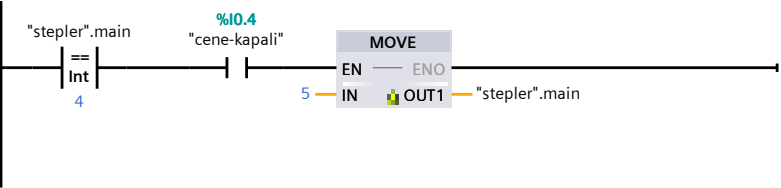
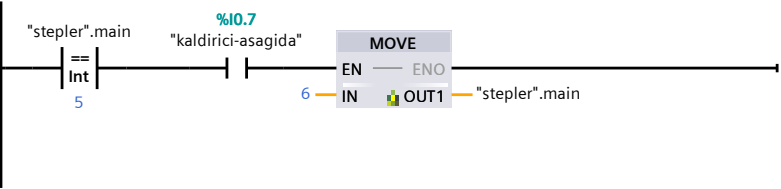
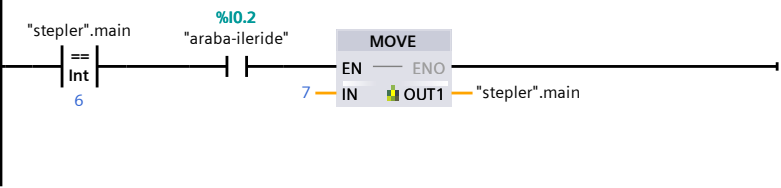
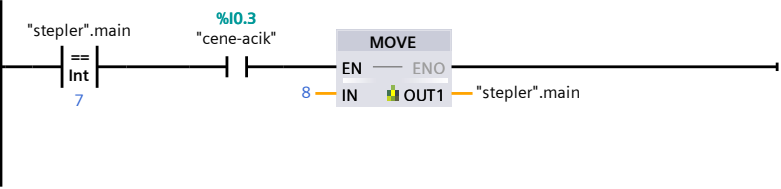
Network 14: devirme yukari

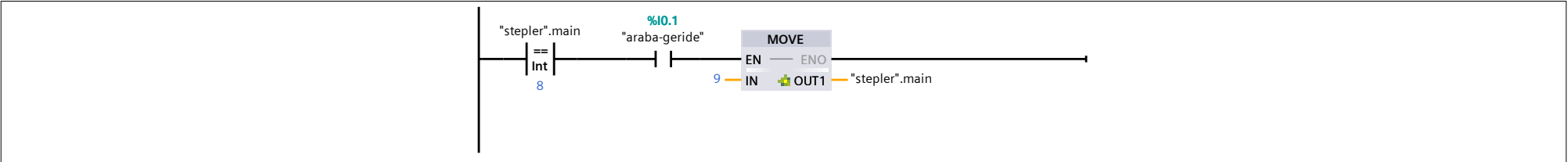


Network 15: devirme asagi

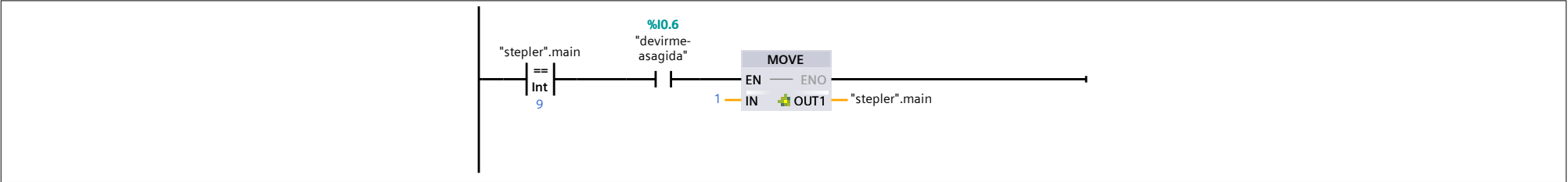




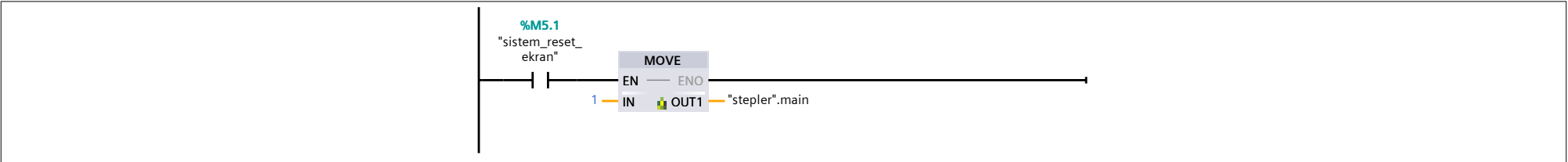
Totally Integrated Automation Portal		
Network 16: step1 first-scan		
		
Network 17: step2 otostart		
		
Network 18: step3 devirme-yukariya		
		
Network 19: step4 kaldirici-yukariya		
		
Network 20: step5 cene-kapama		
		
Network 21: step6 kaldirici-asagiya		
		
Network 22: step7 araba-ileriye		
		
Network 23: step8 cene-acma		
		
Network 24: step9 araba-geriye		



Network 25: step10 devirme-asagiya



Network 26: sistem-reset-ekran



Totally Integrated Automation Portal

## Program blocks

### SINA\_SPEED\_DB [DB1]

SINA\_SPEED\_DB Properties

General

Name	SINA_SPEED_DB	Number	1	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author	DRVDPS7	Comment		Family	DRIVES
Version	5.0	User-defined ID	SINA_SPD				

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
EnableAxis	Bool	0	False	True	True	True	False		0-->1; 1 = Enable the drive (OFF2 / OFF 3 are 1 in default status) (OFF1 = 0-->1)
AckError	Bool	0	False	True	True	True	False		1 = Acknowledge drive error
SpeedSp	Real	0.0	False	True	True	True	False		Speed standardises with the stand-ardisation factor
RefSpeed	Real	0.0	False	True	True	True	False		Standardisation factor of speed
ConfigAxis	Word	16#003F	False	True	True	True	False		binary programmed input to control all functions in the telegram without its own function block input
HWIDSTW	HW_IO	0	False	True	True	True	False		Hardware Identifier set point slot
HWIDZSW	HW_IO	0	False	True	True	True	False		Hardware Identifier actual value slot
▼ Output									
AxisEnabled	Bool	0	False	True	True	True	False		1 = Drive is enabled
Lockout	Bool	0	False	True	True	True	False		1 = Drive lockout active
ActVelocity	Real	0.0	False	True	True	True	False		Actual in [U/min]
Error	Bool	0	False	True	True	True	False		1 = Error (FB and Infeed)
Status	Word	0	False	True	True	True	False		Status output (7002 = FB in opera-tion; 8xxx = error description - read the manual)
DiagId	Word	16#0000	False	True	True	True	False		Error codes of the cyclic system fun-tion blocks DPWR / DPRD_DAT
InOut									
▼ Static									
▼ sxSendBuf	Struct		False	True	True	True	False		Send buffer
STW1	Word	WORD#16#0000	False	True	True	True	False		STW1sxSTW1 : STRUCT Bit08 : BOOL:=False; // ST-Wort-1 Bit 08 --> Reserve Bit09 : BOOL:=False; // ST-Wort-1 Bit 09 --> Reserve Bit10 : BOOL:=True; // ST-Wort-1 Bit 10 --> FÃ¼hrung durch PLC Dir : BOOL:=False; // ST-Wort-1 Bit 11 --> Direction Bit12 : BOOL:=False; // ST-Wort-1 Bit 12 --> Haltebremse unbedingt Ã¶ffnen Bit13 : BOOL:=False; // ST-Wort-1 Bit 13 --> Motorpotenziometer Sollwert hÃ¶her Bit14 : BOOL:=False; // ST-Wort-1 Bit 14 --> Motorpotenziometer Sollwert tiefer Bit15 : BOOL:=False; // ST-Wort-1 Bit 15 --> Reserviert Off1 : BOOL:=False; // ST-Wort-1 Bit 00 --> OFF1/ON (flanks acceptance) Off2 : BOOL:=True; // ST-Wort-1 Bit 01 --> OFF2/ON (enable possible) Off3 : BOOL:=True; // ST-Wort-1 Bit 02 --> OFF3/ON (enable possible) InvEn : BOOL:=True; // ST-Wort-1 Bit 03 --> Enable controller RampEn : BOOL:=True; // ST-Wort-1 Bit 04 --> Ramp enable RampOn : BOOL:=True; // ST-Wort-1 Bit 05 --> Ramp On SpEn : BOOL:=True; // ST-Wort-1 Bit 06 --> Speed set point enable AckFlt : BOOL:=False; // ST-Wort-1 Bit 07 --> Acknowledge fault END_STRUCT;
Velocity	Word	WORD#16#0000	False	True	True	True	False		Setpoint of velocity
▼ sxRecvBuf	Struct		False	True	True	True	False		Receive buffer



Totally Integrated Automation Portal

Program blocks

sensorler [DB2]

sensorler Properties

General

Name	sensorler	Number	2	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
titresim_anlik	Int	0	False	True	True	True	False		
titresim_normx	Real	0.0	False	True	True	True	False		
titresim_scalex	Real	0.0	False	True	True	True	False		
basinc_anlik	Int	0	False	True	True	True	False		
basinc_normx	Real	0.0	False	True	True	True	False		
basinc_scalex	Real	0.0	False	True	True	True	False		
pt100_anlik	Int	0	False	True	True	True	False		
pt100_con	Real	0.0	False	True	True	True	False		
pt100_deger	Real	0.0	False	True	True	True	False		
denemesil	Real	0.0	False	True	True	True	False		

Totally Integrated Automation Portal

## Program blocks

### create [DB4]

create Properties

General

Name	create	Number	4	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
records	UDInt	10000	False	True	True	True	False		
name	String	'kayit1'	False	True	True	True	False		
id	DWord	1	False	True	True	True	False		
headers	String	'sicaklik,basinc,titresim,araba-geride,araba-ileride,cene-acik,cene-kapali,devirme-yukarida,devirme-asagida,kaldirici-asagida,kaldirci-yukarida,kaldirciyukari,kadiriciasagi,arabaileri,arabageri,cenekapa,ceneac,devirmeyukari,devirmeasagi'	False	True	True	True	False		
▼ data	Struct		False	True	True	True	False		
sicaklik	UDInt	0	False	True	True	True	False		
basinc	UDInt	0	False	True	True	True	False		
titresim	UDInt	0	False	True	True	True	False		
araba-geride	Bool	false	False	True	True	True	False		
araba-ileride	Bool	false	False	True	True	True	False		
cene-acik	Bool	false	False	True	True	True	False		
cene-kapali	Bool	false	False	True	True	True	False		
devirme-yukarida	Bool	false	False	True	True	True	False		
devirme-asagida	Bool	false	False	True	True	True	False		
kaldirci-asagida	Bool	false	False	True	True	True	False		
kaldirci-yukarida	Bool	false	False	True	True	True	False		
kaldirciyukari	Bool	false	False	True	True	True	False		
kadiriciasagi	Bool	false	False	True	True	True	False		
arabaileri	Bool	false	False	True	True	True	False		
arabageri	Bool	false	False	True	True	True	False		
cenekapa	Bool	false	False	True	True	True	False		
ceneac	Bool	false	False	True	True	True	False		
devirmeyukari	Bool	false	False	True	True	True	False		
devirmeasagi	Bool	false	False	True	True	True	False		
done	Bool	false	False	True	True	True	False		
busy	Bool	false	False	True	True	True	False		
error	Bool	false	False	True	True	True	False		
status	Word	16#0	False	True	True	True	False		



Totally Integrated Automation Portal

### Program blocks

#### motor [DB6]

motor Properties

General

Name	motor	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
motor_start	Bool	false	False	True	True	True	False		
motor_hata_reset	Bool	false	False	True	True	True	False		

Totally Integrated Automation Portal

### Program blocks

#### data\_csv [DB7]

data\_csv Properties

General

Name	data_csv	Number	7	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
data_log_write_en	Bool	false	False	True	True	True	False		
DataLogCreate_req	Bool	false	False	True	True	True	False		

Totally Integrated Automation Portal

Program blocks

stepler [DB10]

stepler Properties

General

Name	stepler	Number	10	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
main	Int	0	False	True	True	True	False		

Totally Integrated Automation Portal

### Program blocks

#### genel [DB13]

genel Properties

General

Name	genel	Number	13	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
csv-titresim-dosya-olustur	Bool	false	False	True	True	True	False		
csv-titresim-dosya-sil	Bool	false	False	True	True	True	False		
deger1	Int	0	False	True	True	True	False		
titresim-csv-yaz	Bool	false	False	True	True	True	False		
intdenemesil	UDInt	0	False	True	True	True	False		
binarydenemesil	Byte	16#0	False	True	True	True	False		
sil111	Bool	false	False	True	True	True	False		

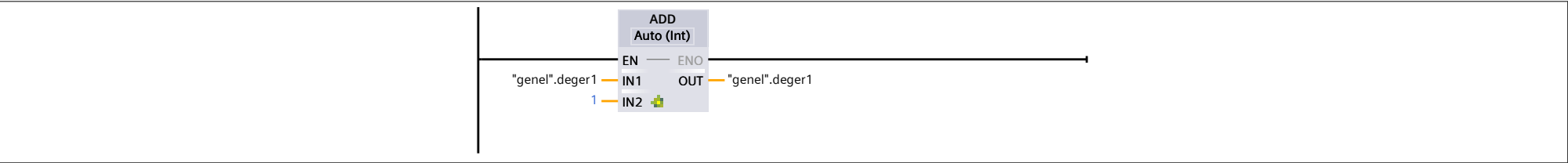
Program blocks

Cyclic interrupt\_1s [OB30]

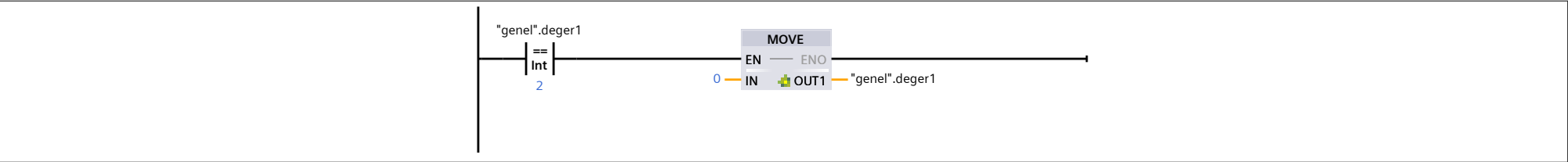
Cyclic interrupt_1s Properties							
General							
Name	Cyclic interrupt_1s	Number	30	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Event_Count	Int		Events discarded
Temp			
Constant			

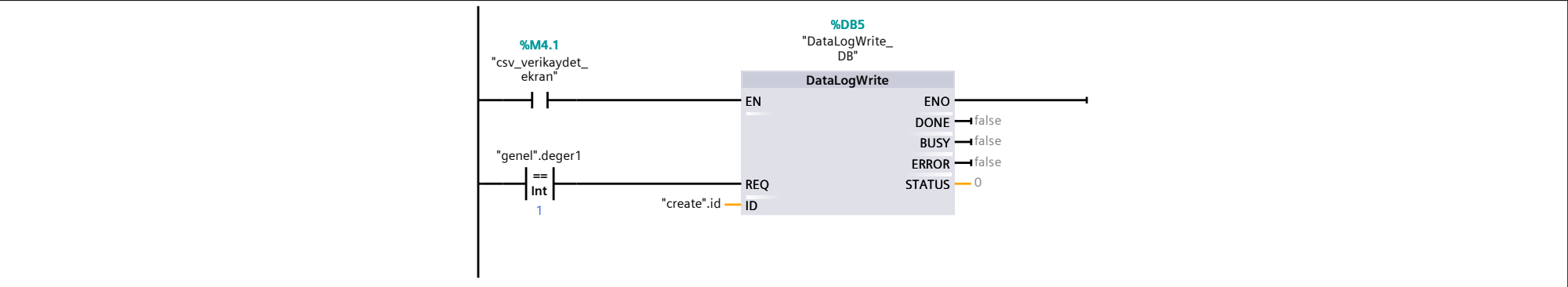
Network 1: cycl\_pals\_olustur1



Network 2: cycl\_pals\_olustur2



Network 3: csvdatayazen



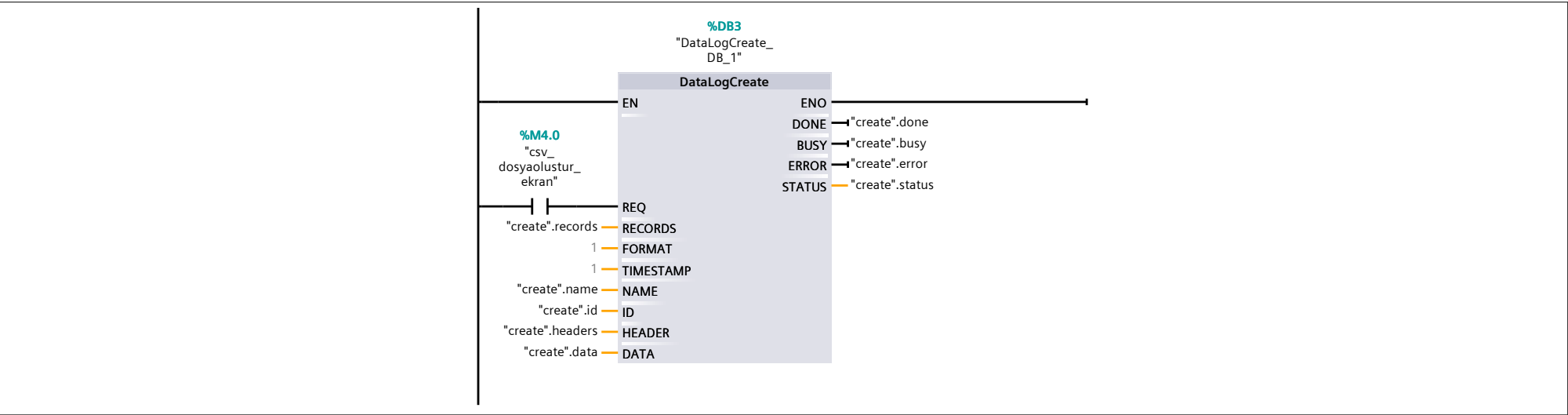
Program blocks

CSV\_GENEL\_KAYIT [OB123]

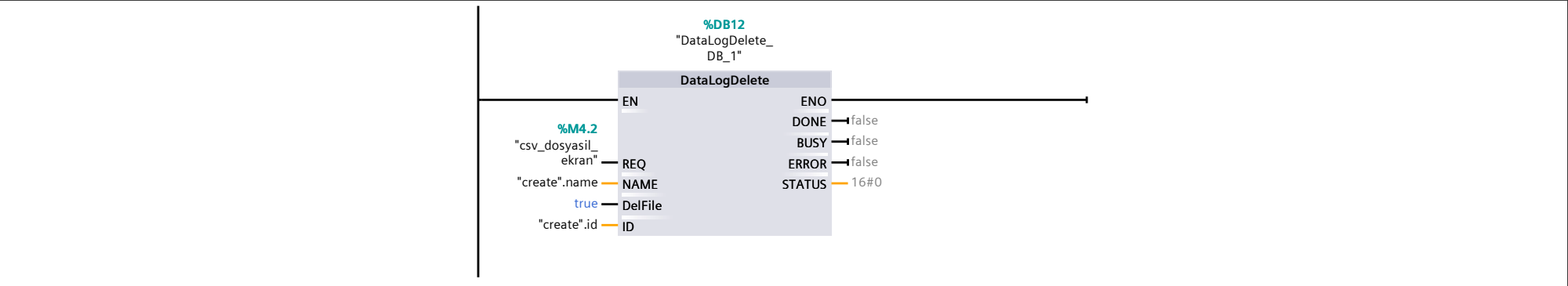
CSV_GENEL_KAYIT Properties							
General							
Name	CSV_GENEL_KAYIT	Number	123	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

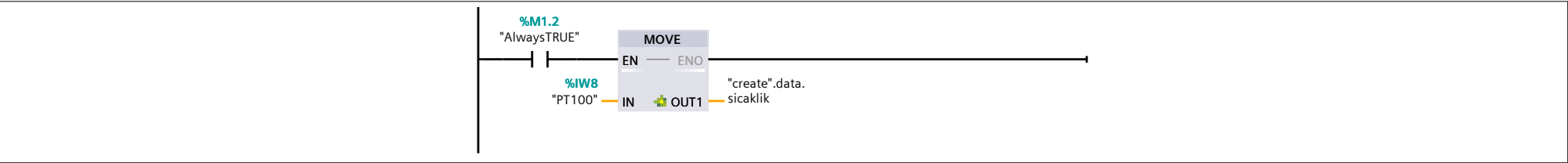
Network 1: csvdatadosyaolustur



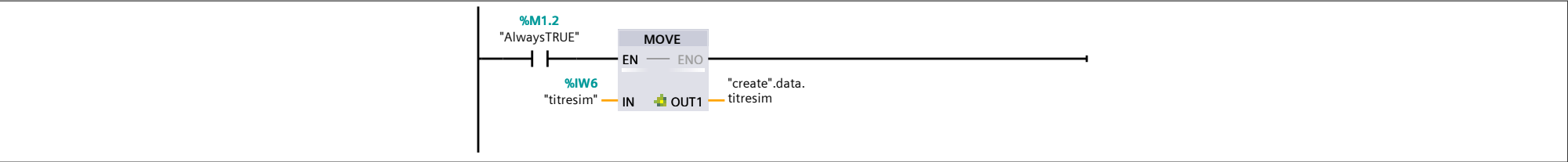
Network 2: csv\_dosya\_sil



Network 3: sicaklikcsvaktarma

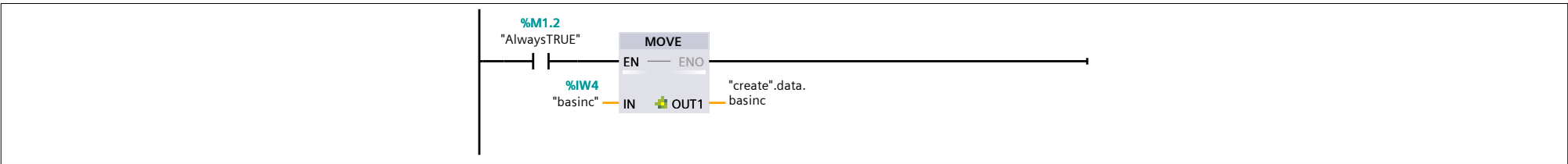


Network 4: titresimcsvhamveriaktarma



Network 5: basinccsvaktarma





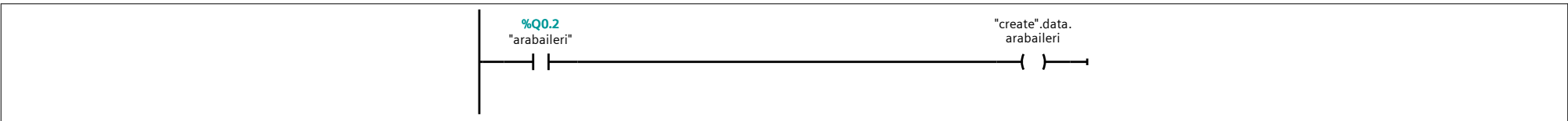
Network 6: kaldiriciyukari.csv



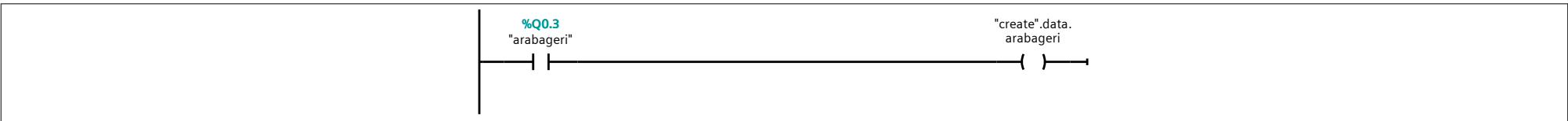
## Network 7: kadiriciasagi csv



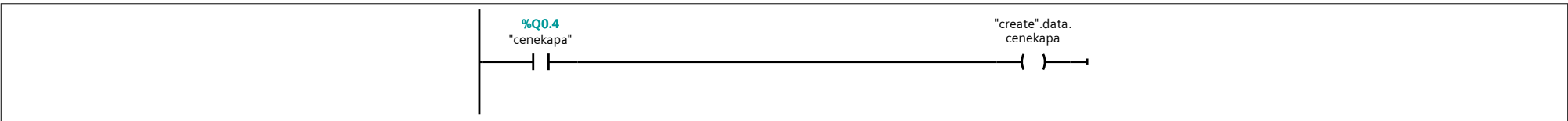
Network 8: arabaileri csv



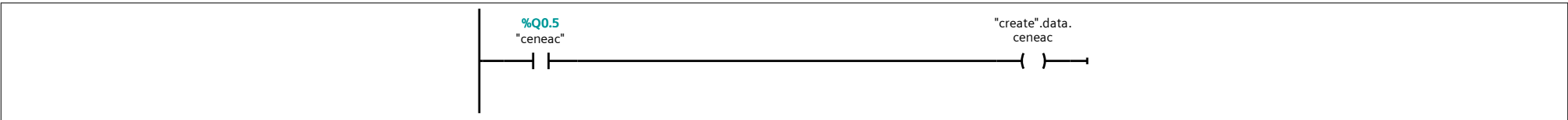
Network 9: arabageri csv



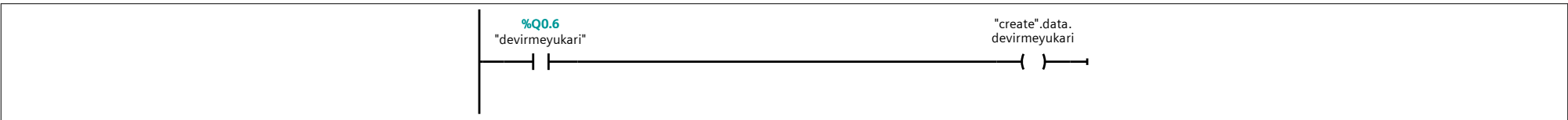
Network 10: cenekapa.csv



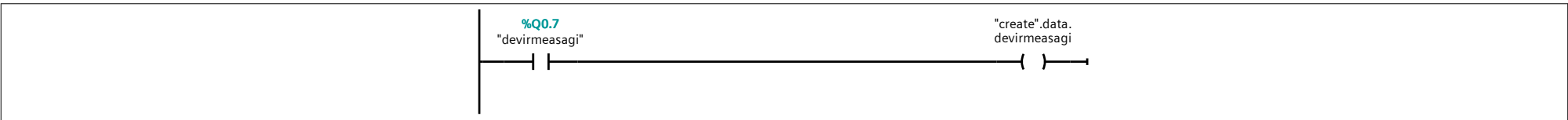
Network 11: ceneac.csv



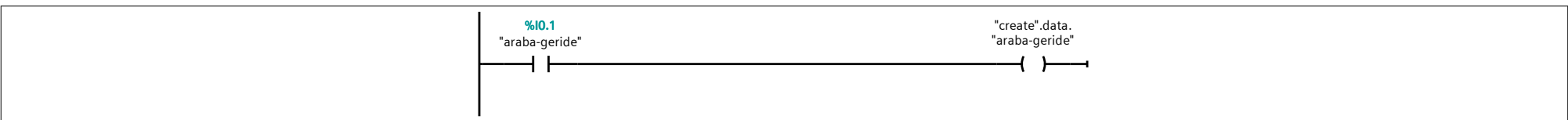
Network 12: devirmeyukari csv



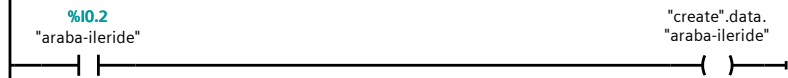
Network 13: devirmeasagi csv



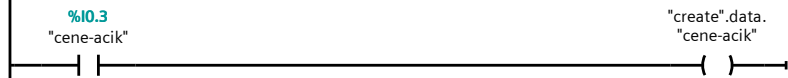
Network 14: araba-geride csv



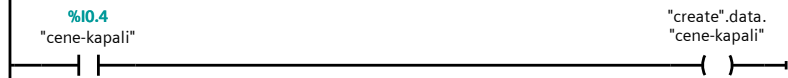
### Network 15: araba-ileride csv



### Network 16: cene-acik csv



### Network 17: cene-kapali csv



### Network 18: devirme-yukarida csv



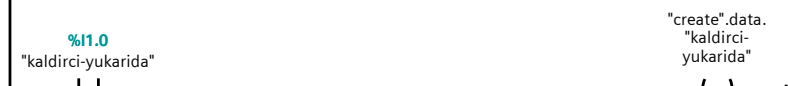
### Network 19: devirme-asagida csv



### Network 20: kaldirici-asagida csv



## Network 21: kaldirci-yukarida csv



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### Program blocks

#### hata [OB124]

hata Properties

General

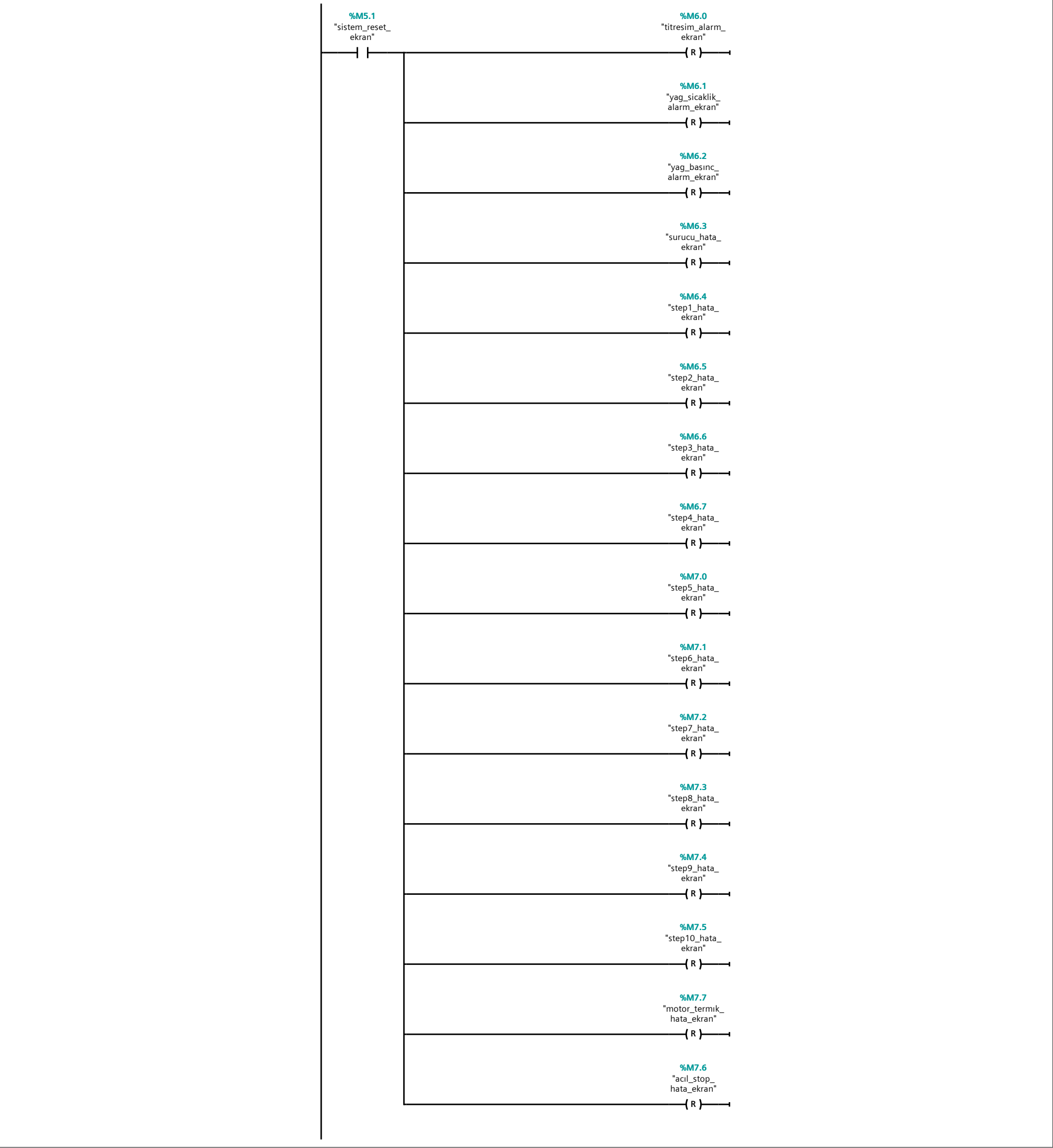
Name	hata	Number	124	Type	OB	Language	LAD
Numbering	Automatic						

Information

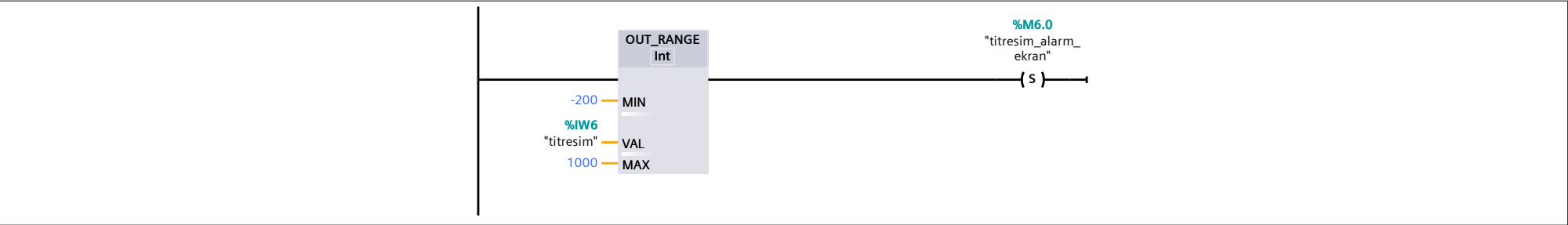
Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

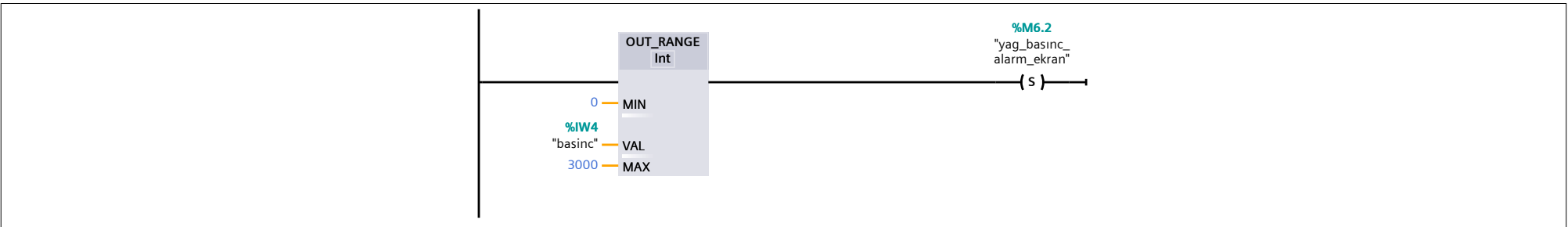
#### Network 1: alarm-ekran-reset



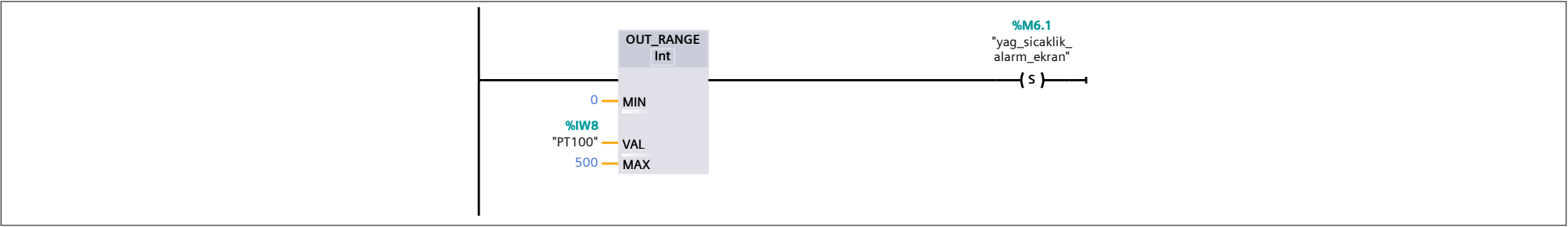
Network 2: titresim-alarm-ekran-set



Network 3: yag basinc alarm set



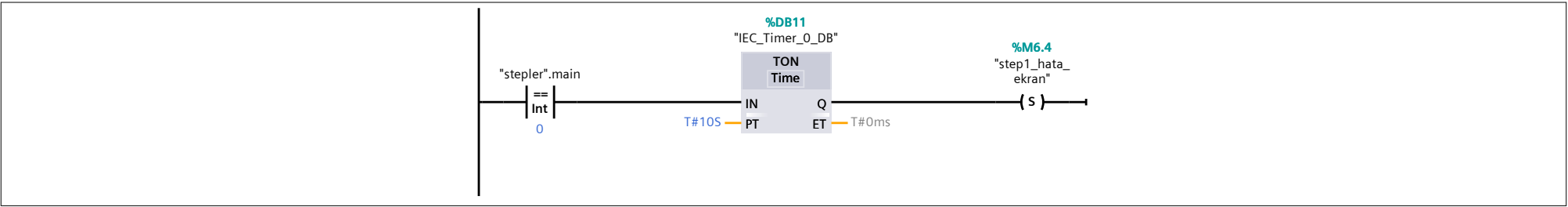
### Network 4: yağ sıcaklık alarm set



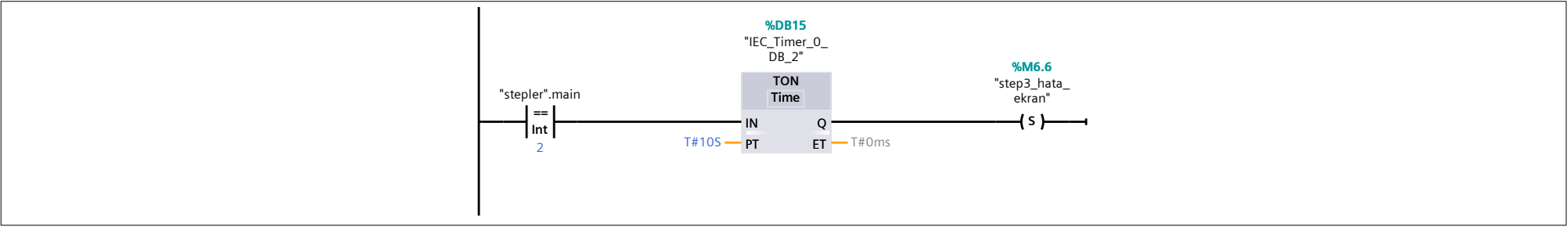
Network 5: surucu\_ariza\_set



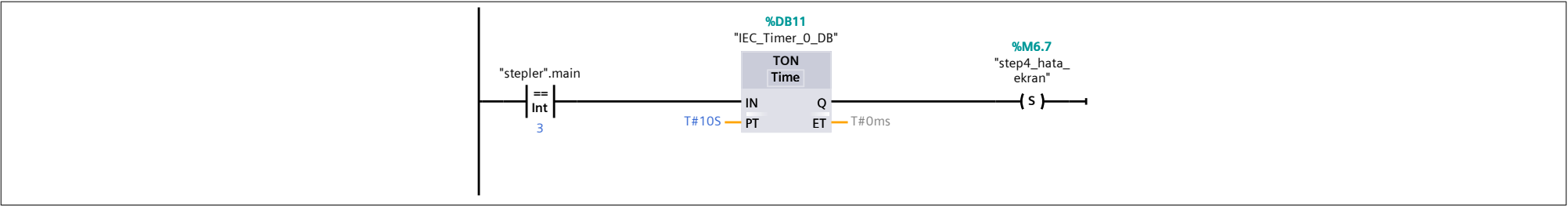
## Network 6: step1\_hata\_set



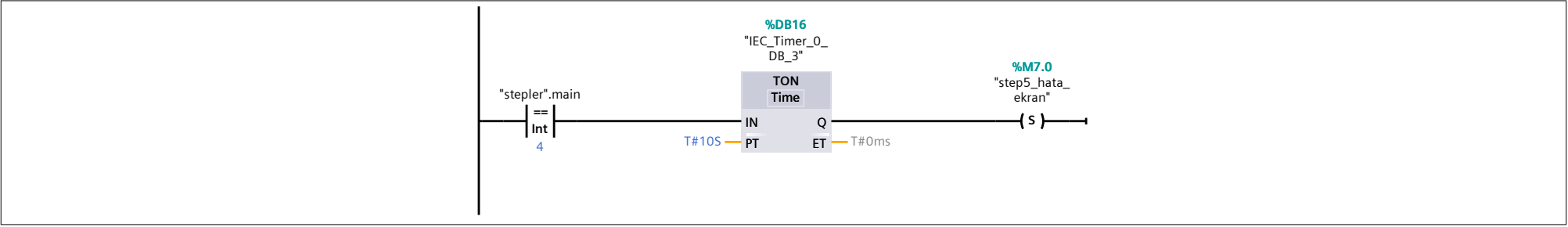
## Network 7: step3\_hata\_set



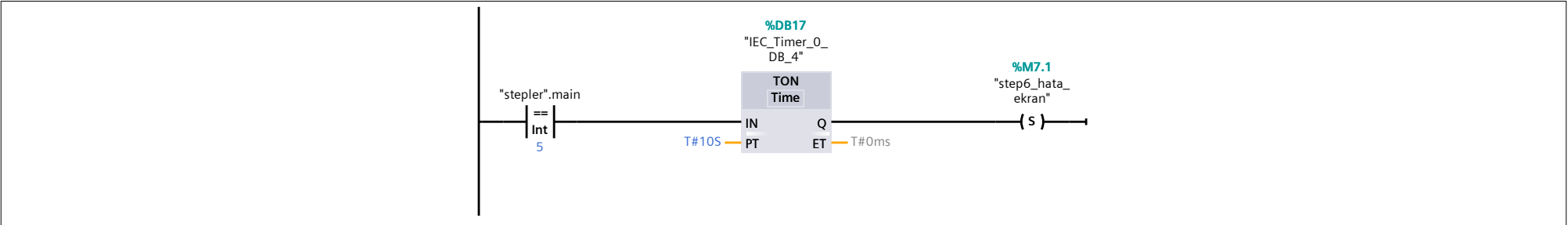
## Network 8: step4\_hata\_set



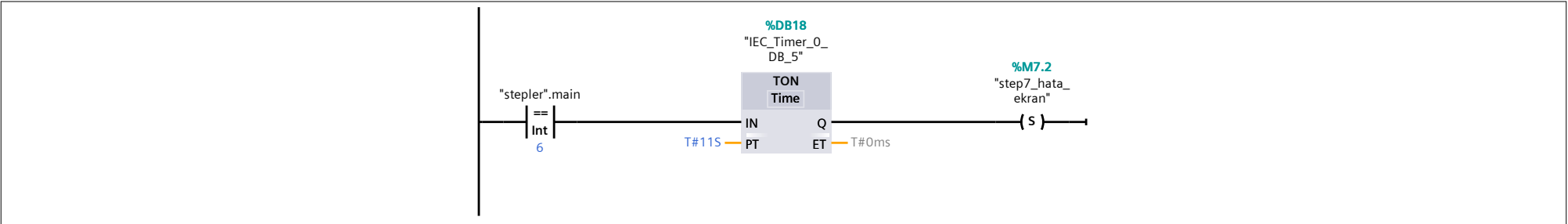
## Network 9: step5\_hata\_set



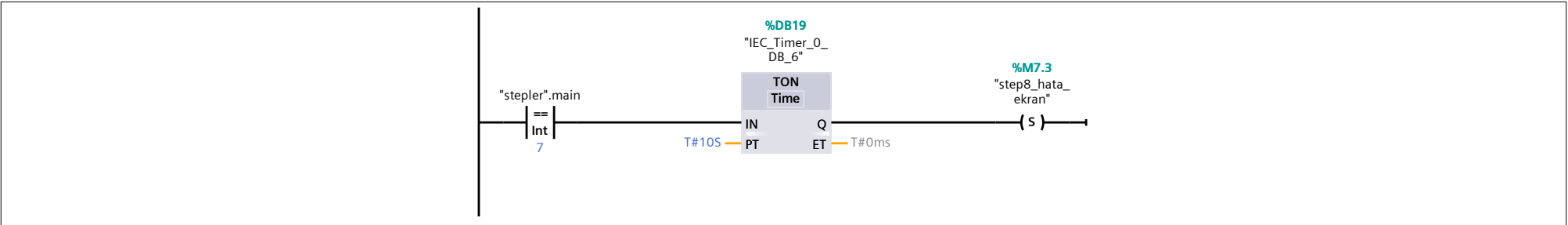
## Network 10: step6\_hata\_set



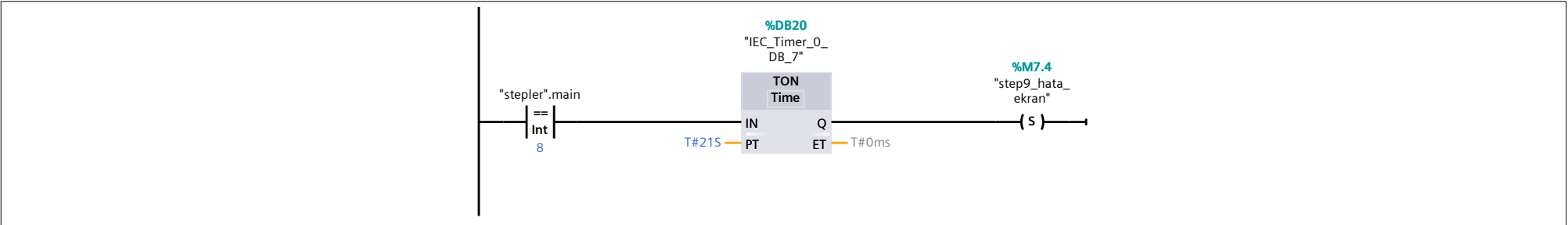
Network 11: step7\_hata\_set



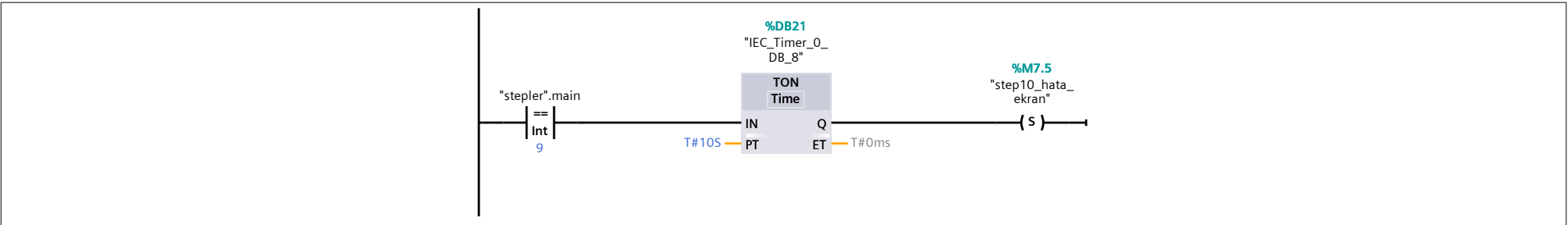
Network 12: step8\_hata\_set



Network 13: step9\_hata\_set



Network 14: step10\_hata\_set



Network 15: motor\_termik\_hata\_set

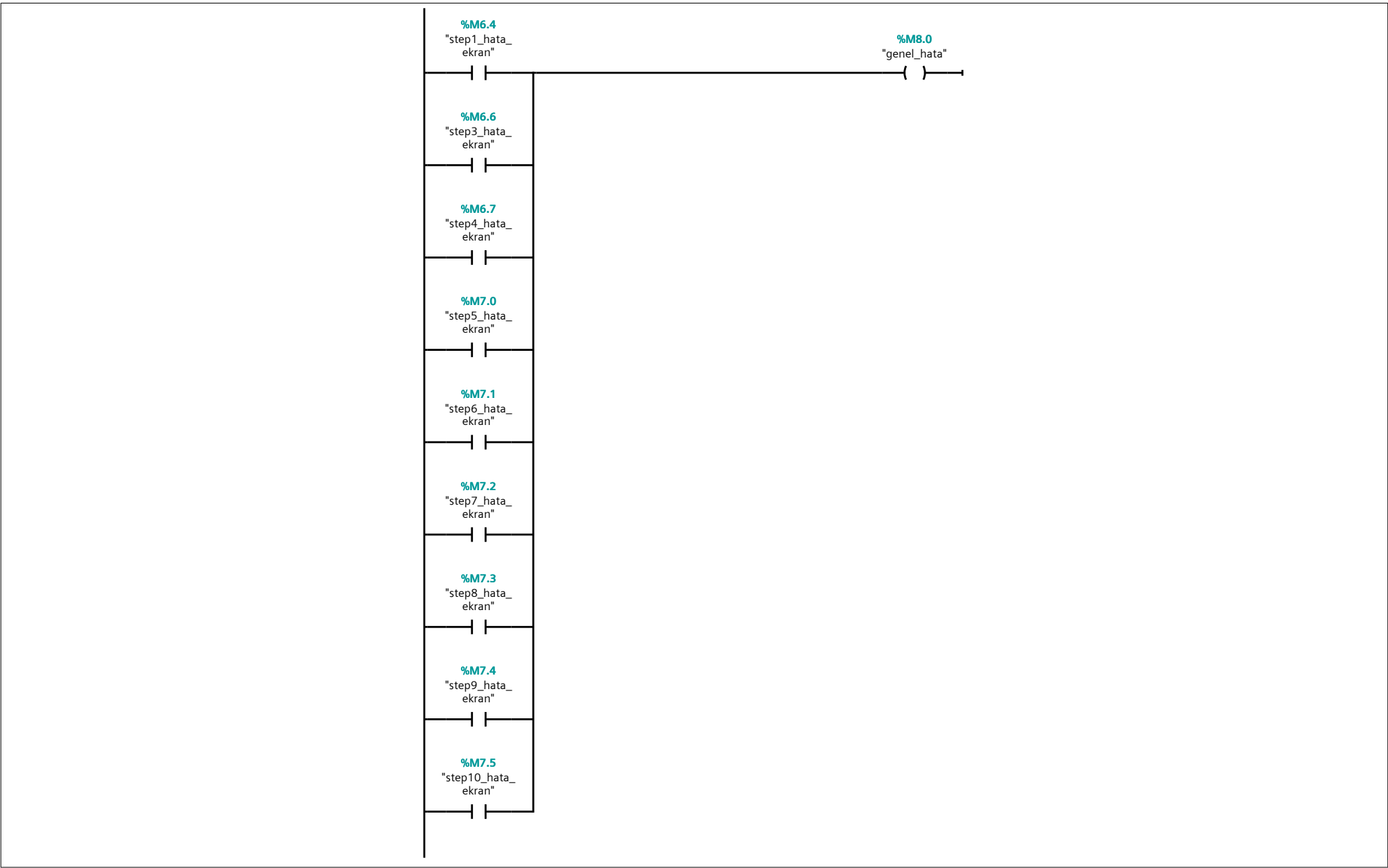


Network 16: acil\_stop\_hata\_set



Network 17: genel\_hata





## DataLogCreate\_DB\_1 [DB3]

DataLogCreate_DB_1 Properties							
General							
Name	DataLogCreate_DB_1	Number	3	Type	DB	Language	DB
Numbering	Automatic						
Information							
Title		Author	SIMATIC	Comment		Family	DataLog
Version	1.0	User-defined ID	DL_Creat				

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
REQ	Bool	false	False	True	True	True	False		
Records	UDInt	1	False	True	True	True	False		
Format	UInt	1	False	True	True	True	False		
Timestamp	UInt	1	False	True	True	True	False		
Name	Variant		False	False	False	False	False		
▼ Output									
DONE	Bool	false	False	True	True	True	False		
BUSY	Bool	false	False	True	True	True	False		
ERROR	Bool	false	False	True	True	True	False		
STATUS	Word	0	False	True	True	True	False		
▼ InOut									
ID	DWord	0	False	True	True	True	False		
Header	Variant		False	False	False	False	False		
Data	Variant		False	False	False	False	False		
Static									

## DataLogWrite\_DB [DB5]

DataLogWrite_DB Properties							
General							
Name	DataLogWrite_DB	Number	5	Type	DB	Language	DB
Numbering	Automatic						
Information							
Title		Author	SIMATIC	Comment		Family	DataLog
Version	1.0	User-defined ID	DL_Write				

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
REQ	Bool	false	False	True	True	True	False		
▼ Output									
DONE	Bool	false	False	True	True	True	False		
BUSY	Bool	false	False	True	True	True	False		
ERROR	Bool	false	False	True	True	True	False		
STATUS	Word	0	False	True	True	True	False		
▼ InOut									
ID	DWord	0	False	True	True	True	False		
Static									

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Program blocks / System blocks / Program resources

TCON\_DB [DB8]

TCON\_DB Properties

General

Name	TCON_DB	Number	8	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author	SIMATIC	Comment		Family	OUC
Version	1.0	User-defined ID	T_CON				

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
REQ	Bool	false	False	True	True	True	False		Function to be executed on rising edge
ID	CONN_OUC	16#0	False	True	True	True	False		Connection identifier
▼ Output									
DONE	Bool	false	False	True	True	True	False		New data received
BUSY	Bool	false	False	True	True	True	False		Function busy
ERROR	Bool	false	False	True	True	True	False		Error detected
STATUS	Word	W#16#7000	False	True	True	True	False		Function result/error message
▼ InOut									
CONNECT	Variant		False	False	False	False	False		Connection description
Static									

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## Program blocks / System blocks / Program resources

### PLC\_1\_Connection\_DB [DB9]

PLC\_1\_Connection\_DB Properties

General

Name	PLC_1_Connection_DB	Number	9	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author	SIMATIC	Comment		Family	MC7Plus
Version	1.0	User-defined ID	IP_RFC				

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
Interfaceld	HW_ANY	64	False	True	True	True	False		HW-identifier of IE-interface submod-ule
ID	CONN_OUC	2	False	True	True	True	False		connection reference / identifier
ConnectionType	Byte	16#0C	False	True	True	True	False		type of connection: 12= ISO-on-TCP (18=ISO-on-TCP)
ActiveEstablished	Bool	true	False	True	True	True	False		active/passive connection establish-ment
▼ RemoteAddress	IP_V4		False	True	True	True	True		remote IP address (IPv4)
▼ ADDR	Array[1..4] of Byte		False	True	True	True	False		IPv4 address
ADDR[1]	Byte	192	False	True	True	True	False		IPv4 address
ADDR[2]	Byte	168	False	True	True	True	False		IPv4 address
ADDR[3]	Byte	1	False	True	True	True	False		IPv4 address
ADDR[4]	Byte	50	False	True	True	True	False		IPv4 address
▼ RemoteTSelector	TSelector		False	True	True	True	True		remote transport selector
TSelLength	UInt	12	False	True	True	True	False		length of TSelector
▼ TSel	Array[1..32] of Byte		False	True	True	True	False		Tselector array
TSel[1]	Byte	B#16#E0	False	True	True	True	False		Tselector array
TSel[2]	Byte	B#16#01	False	True	True	True	False		Tselector array
TSel[3]	Byte	B#16#49	False	True	True	True	False		Tselector array
TSel[4]	Byte	B#16#53	False	True	True	True	False		Tselector array
TSel[5]	Byte	B#16#4F	False	True	True	True	False		Tselector array
TSel[6]	Byte	B#16#6F	False	True	True	True	False		Tselector array
TSel[7]	Byte	B#16#6E	False	True	True	True	False		Tselector array
TSel[8]	Byte	B#16#54	False	True	True	True	False		Tselector array
TSel[9]	Byte	B#16#43	False	True	True	True	False		Tselector array
TSel[10]	Byte	B#16#50	False	True	True	True	False		Tselector array
TSel[11]	Byte	B#16#2D	False	True	True	True	False		Tselector array
TSel[12]	Byte	B#16#31	False	True	True	True	False		Tselector array
TSel[13]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[14]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[15]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[16]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[17]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[18]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[19]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[20]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[21]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[22]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[23]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[24]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[25]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[26]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[27]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[28]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[29]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[30]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[31]	Byte	B#16#0	False	True	True	True	False		Tselector array
TSel[32]	Byte	B#16#0	False	True	True	True	False		Tselector array
▼ LocalTSelector	TSelector		False	True	True	True	True		local transport selector
TSelLength	UInt	12	False	True	True	True	False		length of TSelector
▼ TSel	Array[1..32] of Byte		False	True	True	True	False		Tselector array
TSel[1]	Byte	B#16#E0	False	True	True	True	False		Tselector array
TSel[2]	Byte	B#16#01	False	True	True	True	False		Tselector array
TSel[3]	Byte	B#16#49	False	True	True	True	False		Tselector array
TSel[4]	Byte	B#16#53	False	True	True	True	False		Tselector array
TSel[5]	Byte	B#16#4F	False	True	True	True	False		Tselector array
TSel[6]	Byte	B#16#6F	False	True	True	True	False		Tselector array
TSel[7]	Byte	B#16#6E	False	True	True	True	False		Tselector array



Program blocks / System blocks / Program resources

DataLogDelete\_DB\_1 [DB12]

DataLogDelete_DB_1 Properties									
General									
Name	DataLogDelete_DB_1	Number	12	Type	DB			Language	DB
Numbering	Automatic								
Information									
Title		Author	SIMATIC	Comment				Family	DataLog
Version	1.0	User-defined ID	DL-Dele						
Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Input									
REQ	Bool	false	False	True	True	True	False		Perform function on rising edge
NAME	Variant		False	False	False	False	False		Filename of the DataLog
DelFile	Bool	false	False	True	True	True	False		Data log file is kept (=FALSE) or de-leted (=TRUE)
▼ Output									
DONE	Bool	false	False	True	True	True	False		Function performed
BUSY	Bool	false	False	True	True	True	False		Function busy
ERROR	Bool	false	False	True	True	True	False		Error flag
STATUS	Word	16#0	False	True	True	True	False		Function result / error message
▼ InOut									
ID	DWord	16#0	False	True	True	True	False		Achive object id
Static									

Program blocks / System blocks / Program resources

IEC\_Timer\_0\_DB [DB11]

IEC_Timer_0_DB Properties									
General									
Name	IEC_Timer_0_DB	Number	11	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		



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### Program blocks / System blocks / Program resources

#### IEC\_Timer\_0\_DB\_2 [DB15]

IEC\_Timer\_0\_DB\_2 Properties

General

Name	IEC_Timer_0_DB_2	Number	15	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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### Program blocks / System blocks / Program resources

#### IEC\_Timer\_0\_DB\_3 [DB16]

IEC\_Timer\_0\_DB\_3 Properties

General

Name	IEC_Timer_0_DB_3	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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### Program blocks / System blocks / Program resources

#### IEC\_Timer\_0\_DB\_4 [DB17]

IEC\_Timer\_0\_DB\_4 Properties

General

Name	IEC_Timer_0_DB_4	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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### Program blocks / System blocks / Program resources

#### IEC\_Timer\_0\_DB\_5 [DB18]

IEC\_Timer\_0\_DB\_5 Properties

General

Name	IEC_Timer_0_DB_5	Number	18	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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### Program blocks / System blocks / Program resources

#### IEC\_Timer\_0\_DB\_6 [DB19]

IEC\_Timer\_0\_DB\_6 Properties

General

Name	IEC_Timer_0_DB_6	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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### Program blocks / System blocks / Program resources

#### IEC\_Timer\_0\_DB\_7 [DB20]

IEC\_Timer\_0\_DB\_7 Properties

General

Name	IEC_Timer_0_DB_7	Number	20	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

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### Program blocks / System blocks / Program resources

#### IEC\_Timer\_0\_DB\_8 [DB21]

IEC\_Timer\_0\_DB\_8 Properties

General

Name	IEC_Timer_0_DB_8	Number	21	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
PT	Time	T#0ms	False	True	True	True	False		
ET	Time	T#0ms	False	True	False	True	False		
IN	Bool	false	False	True	True	True	False		
Q	Bool	false	False	True	False	True	False		

Program blocks / System blocks / Program resources

IEC\_Counter\_0\_DB\_2 [DB24]

IEC_Counter_0_DB_2 Properties										
General										
Name	IEC_Counter_0_DB_2	Number	24	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static										
CU		Bool	false	True	True	True	True	False		
CD		Bool	false	True	True	True	True	False		
R		Bool	false	True	True	True	True	False		
LD		Bool	false	True	True	True	True	False		
QU		Bool	false	True	True	True	True	False		
QD		Bool	false	True	True	True	True	False		
PV		Int	0	True	True	True	True	False		
CV		Int	0	True	True	True	True	False		



Program blocks / System blocks / Program resources

IEC\_Counter\_0\_DB [DB14]

IEC_Counter_0_DB Properties										
General										
Name	IEC_Counter_0_DB	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static										
CU		Bool	false	True	True	True	True	False		
CD		Bool	false	True	True	True	True	False		
R		Bool	false	True	True	True	True	False		
LD		Bool	false	True	True	True	True	False		
QU		Bool	false	True	True	True	True	False		
QD		Bool	false	True	True	True	True	False		
PV		Int	0	True	True	True	True	False		
CV		Int	0	True	True	True	True	False		

Program blocks / System blocks / Program resources

IEC\_Counter\_0\_DB\_1 [DB22]

IEC_Counter_0_DB_1 Properties										
General										
Name	IEC_Counter_0_DB_1	Number	22	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static										
CU		Bool	false	True	True	True	True	False		
CD		Bool	false	True	True	True	True	False		
R		Bool	false	True	True	True	True	False		
LD		Bool	false	True	True	True	True	False		
QU		Bool	false	True	True	True	True	False		
QD		Bool	false	True	True	True	True	False		
PV		Int	0	True	True	True	True	False		
CV		Int	0	True	True	True	True	False		

Program blocks / System blocks / Program resources

IEC\_Counter\_0\_DB\_3 [DB23]

IEC_Counter_0_DB_3 Properties										
General										
Name	IEC_Counter_0_DB_3	Number	23	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static										
CU		Bool	false	True	True	True	True	False		
CD		Bool	false	True	True	True	True	False		
R		Bool	false	True	True	True	True	False		
LD		Bool	false	True	True	True	True	False		
QU		Bool	false	True	True	True	True	False		
QD		Bool	false	True	True	True	True	False		
PV		Int	0	True	True	True	True	False		
CV		Int	0	True	True	True	True	False		

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### Program blocks / System blocks / Program resources

#### IEC\_Counter\_0\_DB\_4 [DB25]

IEC\_Counter\_0\_DB\_4 Properties

General

Name	IEC_Counter_0_DB_4	Number	25	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
CU	Bool	false	True	True	True	True	False		
CD	Bool	false	True	True	True	True	False		
R	Bool	false	True	True	True	True	False		
LD	Bool	false	True	True	True	True	False		
QU	Bool	false	True	True	True	True	False		
QD	Bool	false	True	True	True	True	False		
PV	Int	0	True	True	True	True	False		
CV	Int	0	True	True	True	True	False		

Program blocks / System blocks / Program resources

IEC\_Counter\_0\_DB\_5 [DB26]

IEC_Counter_0_DB_5 Properties										
General										
Name	IEC_Counter_0_DB_5	Number	26	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static										
CU		Bool	false	True	True	True	True	False		
CD		Bool	false	True	True	True	True	False		
R		Bool	false	True	True	True	True	False		
LD		Bool	false	True	True	True	True	False		
QU		Bool	false	True	True	True	True	False		
QD		Bool	false	True	True	True	True	False		
PV		Int	0	True	True	True	True	False		
CV		Int	0	True	True	True	True	False		

Program blocks / System blocks / Program resources

IEC\_Counter\_0\_DB\_6 [DB27]

IEC_Counter_0_DB_6 Properties										
General										
Name	IEC_Counter_0_DB_6	Number	27	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static										
CU		Bool	false	True	True	True	True	False		
CD		Bool	false	True	True	True	True	False		
R		Bool	false	True	True	True	True	False		
LD		Bool	false	True	True	True	True	False		
QU		Bool	false	True	True	True	True	False		
QD		Bool	false	True	True	True	True	False		
PV		Int	0	True	True	True	True	False		
CV		Int	0	True	True	True	True	False		

Program blocks / System blocks / Program resources

IEC\_Counter\_0\_DB\_7 [DB28]

IEC_Counter_0_DB_7 Properties							
General							
Name	IEC_Counter_0_DB_7	Number	28	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	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
CU	Bool	false	True	True	True	True	False		
CD	Bool	false	True	True	True	True	False		
R	Bool	false	True	True	True	True	False		
LD	Bool	false	True	True	True	True	False		
QU	Bool	false	True	True	True	True	False		
QD	Bool	false	True	True	True	True	False		
PV	Int	0	True	True	True	True	False		
CV	Int	0	True	True	True	True	False		