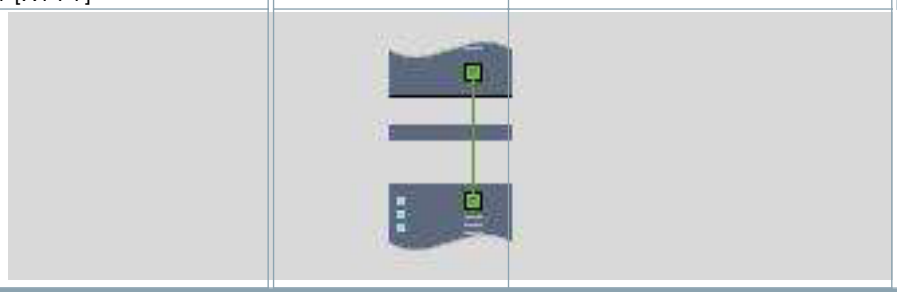
PLC_1 [CPU 1212C AC/DC/Rly]

PLC_1					
General\Project information					
Name	PLC_1	**Author**	admin	**Comment**	
Slot	1	**Rack**	0		
General\Catalog information					
Short designation	CPU 1212C AC/DC/Rly	**Description**	Work memory 75 KB; 120/240VAC power supply with DI8 x 24VDC SINK/SOURCE, DQ6 x relay and AI2 on board; 4 high-speed counters (expandable with digital signal board) and 4 pulse outputs on board; signal board expands on-board I/O; up to 3 communication modules for serial communication; up to 2 signal modules for I/O expansion; 0.04 ms/1000 instructions; PROFINET interface for programming, HMI and PLC to PLC communication	**Article number**	6ES7 212-1BE40-0XB0
Firmware version	V4.1				
General\Identification & Maintenance					
Plant designation		**Location identifier**		**Installation date**	2019-03-26 16:23:17.062
Additional information					
PROFINET interface [X1]\General					
Name	PROFINET interface_1	**Author**	admin	**Comment**	
PROFINET interface [X1]\General\Project information					
Name	DI 8/DQ 6_1	**Comment**		**Name**	AI 2_1
Comment		**Name**	DQ 4x24VDC_1	**Comment**	
PROFINET interface [X1]\General\Catalog information					
Short designation	DQ4 signal board (200 kHz)	**Description**	Signal board DQ4 x 24VDC / 200 kHz; plug-in terminal blocks	**Article number**	6ES7 222-1BD30-0XB0
Firmware version	V1.0				
PROFINET interface [X1]\Ethernet addresses\Interface networked with					
Subnet:	PN/IE_1				
PROFINET interface [X1]\Ethernet addresses\IP protocol					
	Set IP address in the project	**IP address:**	192.168.0.1	**Subnet mask:**	255.255.255.0
Use router	False				
PROFINET interface [X1]\Ethernet addresses\PROFINET					
PROFINET device name is set directly at the device	False	**Generate PROFINET device name automatically**	True	**PROFINET device name**	plc_1
Converted name:	plcxb1d0ed	**Device number:**	0		
PROFINET interface [X1]\Time synchronization					
Enable time synchronization via NTP server	Enable time synchronization via NTP server		IP addresses	**Server 1**	0.0.0.0
Server 2	0.0.0.0	**Server 3**	0.0.0.0	**Server 4**	0.0.0.0
Update interval	10sec				
PROFINET interface [X1]\Digital inputs\Channel0					
Channel address	I0.0	**Input filters**	6.4 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel0					
Enable rising edge detection	0	**RidPrefixRisingEdgeEvent**	49152	**Event name:**	0
Hardware interrupt:	0	**Rising edge0**	Rising edge0		
PROFINET interface [X1]\Digital inputs\Channel0					
Enable falling edge detection	0	**RidPrefixFallingEdgeEvent**	49280	**Event name:**	0
Hardware interrupt:	0	**Falling edge0**	Falling edge0		
PROFINET interface [X1]\Digital inputs\Channel1					
Channel address	I0.1	**Input filters**	6.4 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel1					
Enable rising edge detection	0	**RidPrefixRisingEdgeEvent**	49153	**Event name:**	0
Hardware interrupt:	0	**Rising edge1**	Rising edge1		
PROFINET interface [X1]\Digital inputs\Channel1					
Enable falling edge detection	0	**RidPrefixFallingEdgeEvent**	49281	**Event name:**	0
Hardware interrupt:	0	**Falling edge1**	Falling edge1		
PROFINET interface [X1]\Digital inputs\Channel2					
Channel address	I0.2	**Input filters**	6.4 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel2					
Enable rising edge detection	0	**RidPrefixRisingEdgeEvent**	49154	**Event name:**	0
Hardware interrupt:	0	**Rising edge2**	Rising edge2		
PROFINET interface [X1]\Digital inputs\Channel2					
Enable falling edge detection	0	**RidPrefixFallingEdgeEvent**	49282	**Event name:**	0
Hardware interrupt:	0	**Falling edge2**	Falling edge2		
PROFINET interface [X1]\Digital inputs\Channel3					
Channel address	I0.3	**Input filters**	6.4 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel3					
Enable rising edge detection	0	**RidPrefixRisingEdgeEvent**	49155	**Event name:**	0
Hardware interrupt:	0	**Rising edge3**	Rising edge3		
PROFINET interface [X1]\Digital inputs\Channel3					
Enable falling edge detection	0	**RidPrefixFallingEdgeEvent**	49283	**Event name:**	0

Hardware interrupt:	0	**Falling edge3**	Falling edge3		
PROFINET interface [X1]\Digital inputs\Channel4					
Channel address	I0.4	**Input filters**	6.4 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel4					
Enable rising edge detection	0	**RidPrefixRisingEdg-eEvent**	49156	**Event name:**	0
Hardware interrupt:	0	**Rising edge4**	Rising edge4		
PROFINET interface [X1]\Digital inputs\Channel4					
Enable falling edge detection	0	**RidPrefixFallingEdg-eEvent**	49284	**Event name:**	0
Hardware interrupt:	0	**Falling edge4**	Falling edge4		
PROFINET interface [X1]\Digital inputs\Channel5					
Channel address	I0.5	**Input filters**	6.4 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel5					
Enable rising edge detection	0	**RidPrefixRisingEdg-eEvent**	49157	**Event name:**	0
Hardware interrupt:	0	**Rising edge5**	Rising edge5		
PROFINET interface [X1]\Digital inputs\Channel5					
Enable falling edge detection	0	**RidPrefixFallingEdg-eEvent**	49285	**Event name:**	0
Hardware interrupt:	0	**Falling edge5**	Falling edge5		
PROFINET interface [X1]\Digital inputs\Channel6					
Channel address	I0.6	**Input filters**	6.4 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel6					
Enable rising edge detection	0	**RidPrefixRisingEdg-eEvent**	49158	**Event name:**	0
Hardware interrupt:	0	**Rising edge6**	Rising edge6		
PROFINET interface [X1]\Digital inputs\Channel6					
Enable falling edge detection	0	**RidPrefixFallingEdg-eEvent**	49286	**Event name:**	0
Hardware interrupt:	0	**Falling edge6**	Falling edge6		
PROFINET interface [X1]\Digital inputs\Channel7					
Channel address	I0.7	**Input filters**	6.4 millisec	**Enable pulse catch**	0
PROFINET interface [X1]\Digital inputs\Channel7					
Enable rising edge detection	0	**RidPrefixRisingEdg-eEvent**	49159	**Event name:**	0
Hardware interrupt:	0	**Rising edge7**	Rising edge7		
PROFINET interface [X1]\Digital inputs\Channel7					
Enable falling edge detection	0	**RidPrefixFallingEdg-eEvent**	49287	**Event name:**	0
Hardware interrupt:	0	**Falling edge7**	Falling edge7		
PROFINET interface [X1]\Analog inputs\Noise reduction					
Integration time	50 Hz (20 ms)				
PROFINET interface [X1]\Analog inputs\Channel0					
Channel address	IW64	**Measurement type**	Voltage	**Voltage range**	0..10 V
Smoothing	Weak (4 cycles)			**Enable overflow diagnostics**	1
PROFINET interface [X1]\Analog inputs\Channel1					
Channel address	IW66	**Measurement type**	Voltage	**Voltage range**	0..10 V
Smoothing	Weak (4 cycles)			**Enable overflow diagnostics**	1
PROFINET interface [X1]\Digital outputs					
Reaction to CPU STOP	Use substitute value	**Reaction to CPU STOP**	Use substitute value		
PROFINET interface [X1]\Digital outputs\Channel0					
Channel address	Q0.0	**Substitute a value of 1 on a change from RUN to STOP.**	0	**Channel address**	Q4.0
Substitute a value of 1 on a change from RUN to STOP.	0				
PROFINET interface [X1]\Digital outputs\Channel1					
Channel address	Q0.1	**Substitute a value of 1 on a change from RUN to STOP.**	0	**Channel address**	Q4.1
Substitute a value of 1 on a change from RUN to STOP.	0				
PROFINET interface [X1]\Digital outputs\Channel2					
Channel address	Q0.2	**Substitute a value of 1 on a change from RUN to STOP.**	0	**Channel address**	Q4.2
Substitute a value of 1 on a change from RUN to STOP.	0				
PROFINET interface [X1]\Digital outputs\Channel3					
Channel address	Q0.3	**Substitute a value of 1 on a change from RUN to STOP.**	0	**Channel address**	Q4.3
Substitute a value of 1 on a change from RUN to STOP.	0				
PROFINET interface [X1]\Digital outputs\Channel4					
Channel address	Q0.4	**Substitute a value of 1 on a change from RUN to STOP.**	0		
PROFINET interface [X1]\Digital outputs\Channel5					
Channel address	Q0.5	**Substitute a value of 1 on a change from RUN to STOP.**	0		
PROFINET interface [X1]\Operating mode					
IO controller	True	**IO system**		**Device number**	0
IO device	False				

PROFINET interface [X1]\I/O addresses\Input addresses					
Start address	0	**End address**	0	**Organization block**	0
Process image	0				
PROFINET interface [X1]\I/O addresses\Output addresses					
Start address	0	**End address**	0	**Organization block**	0
Process image	0				
PROFINET interface [X1]\Advanced options\Interface options					
Support device replacement without exchangeable medium	True	**Permit overwriting of device names of all assigned IO devices**	False	**Use IEC V2.2 LLDP mode**	False
Send keepalives for connections	30s				
PROFINET interface [X1]\Advanced options\Real time settings\IO communication					
Send clock:	1.000ms				
PROFINET interface [X1]\Advanced options\Real time settings\Real time options					
Calculated bandwidth for cyclic IO data:	0.000ms				
PROFINET interface [X1]\Advanced options\Port [X1 P1]\General					
Name	Port_1	**Author**	admin	**Comment**	
PROFINET interface [X1]\Advanced options\Port [X1 P1]\Port interconnection\Local port:					
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1]	**Medium:**	Copper	**Cable name:**	---
					
PROFINET interface [X1]\Advanced options\Port [X1 P1]\Port interconnection\Partner port:					
	Monitoring of partner port is not possible	**Alternative partners**	False	**Partner port:**	CSM 1277_1\SCALANCE interface [X1]\Port_1 [X1 P1]
Medium:	Copper	**Cable length:**			
PROFINET interface [X1]\Advanced options\Port [X1 P1]\Port options\Activate					
Activate this port for use	True				
PROFINET interface [X1]\Advanced options\Port [X1 P1]\Port options\Connection					
Transmission rate / duplex:	Automatic	**Monitor**	False	**Enable autonegotiation**	True
PROFINET interface [X1]\Advanced options\Port [X1 P1]\Port options\Boundaries					
End of detection of accessible devices	False	**End of topology discovery**	False	**End of the sync domain**	False
PROFINET interface [X1]\Advanced options\Port [X1 P1]\Hardware identifier\Hardware identifier					
Hardware identifier	65				
PROFINET interface [X1]\Web server access					
Enable Web server using this interface	False	**The Web server must also be activated in the properties of the PLC.**			
PROFINET interface [X1]\Hardware identifier\Hardware identifier					
Hardware identifier	257	**Hardware identifier**	64		
High speed counters (HSC)\HSC1\General\Enable					
Enable this high speed counter	0				
High speed counters (HSC)\HSC1\General\Project information					
Name	HSC_1	**Comment**			
High speed counters (HSC)\HSC1\Function					
Type of counting	Count	**Operating phase**	Single phase		
Counting direction is specified by	User program (internal direction control)	**Initial counting direction**	Count up		
Frequency measuring period	-/-sec				
High speed counters (HSC)\HSC1\Reset to initial values\Reset values					
Initial counter value	0	**Initial reference value**	0		
High speed counters (HSC)\HSC1\Reset to initial values\Reset options					
Use external reset input	0	**Reset signal level**	-/-		
High speed counters (HSC)\HSC1\Event configuration					
Generate interrupt for counter value equals reference value event.	0	**RidPrefixCvEqualsPv**	49152	**Event name:**	0
Hardware interrupt:	0	**Counter value equal to reference value0**	Counter value equal to reference value0	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC1\Event configuration					
Generate interrupt for external reset event.	0	**RidPrefixExternalReset**	49408	**Event name:**	0
Hardware interrupt:	0	**External reset0**	External reset0	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC1\Event configuration					
Generate interrupt for change of direction event.	0	**RidPrefixDirectionChange**	49280	**Event name:**	0
Hardware interrupt:	0	**Change of direction0**	Change of direction0	**ValueNull**	0
ValueNull	0	**EventPriority**	6		

High speed counters (HSC)\HSC1\Hardware inputs					
Clock generator input	---	**HSCInput0_Status**	1	**Direction input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC1\Hardware inputs					
Direction input	---	**HSCInput1_Status**	1	**Clock generator input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC1\Hardware inputs					
Reset input	---	**HSCInput2_Status**	1	**Clock generator input**	---
Direction input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC1\I/O addresses\Input addresses					
Start address	1000	**End address**	1003	**Organization block**	0
Process image	0				
High speed counters (HSC)\HSC1\Hardware identifier\Hardware identifier					
Hardware identifier	259				
High speed counters (HSC)\HSC2\General\Enable					
Enable this high speed counter	0				
High speed counters (HSC)\HSC2\General\Project information					
Name	HSC_2	**Comment**			
High speed counters (HSC)\HSC2\Function					
Type of counting	Count	**Operating phase**	Single phase		
Counting direction is specified by	User program (internal direction control)	**Initial counting direction**	Count up		
Frequency measuring period	-/-sec				
High speed counters (HSC)\HSC2\Reset to initial values\Reset values					
Initial counter value	0	**Initial reference value**	0		
High speed counters (HSC)\HSC2\Reset to initial values\Reset options					
Use external reset input	0	**Reset signal level**	-/-		
High speed counters (HSC)\HSC2\Event configuration					
Generate interrupt for counter value equals reference value event.	0	**RidPrefixCvEqualsPv**	49152	**Event name:**	0
Hardware interrupt:	0	**Counter value equal to reference value1**	Counter value equal to reference value1	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC2\Event configuration					
Generate interrupt for external reset event.	0	**RidPrefixExternalReset**	49408	**Event name:**	0
Hardware interrupt:	0	**External reset1**	External reset1	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC2\Event configuration					
Generate interrupt for change of direction event.	0	**RidPrefixDirectionChange**	49280	**Event name:**	0
Hardware interrupt:	0	**Change of direction1**	Change of direction1	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC2\Hardware inputs					
Clock generator input	---	**HSCInput0_Status**	1	**Direction input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC2\Hardware inputs					
Direction input	---	**HSCInput1_Status**	1	**Clock generator input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay

Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC2\Hardware inputs					
Reset input	---	**HSCInput2_Status**	1	**Clock generator input**	---
Direction input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC2\I/O addresses\Input addresses					
Start address	1004	**End address**	1007	**Organization block**	0
Process image	0				
High speed counters (HSC)\HSC2\Hardware identifier\Hardware identifier					
Hardware identifier	260				
High speed counters (HSC)\HSC3\General\Enable					
Enable this high speed counter	0				
High speed counters (HSC)\HSC3\General\Project information					
Name	HSC_3	**Comment**			
High speed counters (HSC)\HSC3\Function					
Type of counting	Count	**Operating phase**	Single phase		
Counting direction is specified by	User program (internal direction control)	**Initial counting direction**	Count up		
Frequency measuring period	-/-sec				
High speed counters (HSC)\HSC3\Reset to initial values\Reset values					
Initial counter value	0	**Initial reference value**	0		
High speed counters (HSC)\HSC3\Reset to initial values\Reset options					
Use external reset input	0	**Reset signal level**	-/-		
High speed counters (HSC)\HSC3\Event configuration					
Generate interrupt for counter value equals reference value event.	0	**RidPrefixCvEqualsPv**	49152	**Event name:**	0
Hardware interrupt:	0	**Counter value equal to reference value2**	Counter value equal to reference value2	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC3\Event configuration					
Generate interrupt for external reset event.	0	**RidPrefixExternalReset**	49408	**Event name:**	0
Hardware interrupt:	0	**External reset2**	External reset2	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC3\Event configuration					
Generate interrupt for change of direction event.	0	**RidPrefixDirectionChange**	49280	**Event name:**	0
Hardware interrupt:	0	**Change of direction2**	Change of direction2	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC3\Hardware inputs					
Clock generator input	---	**HSCInput0_Status**	1	**Direction input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC3\Hardware inputs					
Direction input	---	**HSCInput1_Status**	1	**Clock generator input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC3\Hardware inputs					
Reset input	---	**HSCInput2_Status**	1	**Clock generator input**	---
Direction input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC3\I/O addresses\Input addresses					
Start address	1008	**End address**	1011	**Organization block**	0
Process image	0				

High speed counters (HSC)\HSC3\Hardware identifier\Hardware identifier					
Hardware identifier	261				
High speed counters (HSC)\HSC4\General\Enable					
Enable this high speed counter	0				
High speed counters (HSC)\HSC4\General\Project information					
Name	HSC_4	**Comment**			
High speed counters (HSC)\HSC4\Function					
Type of counting	Count	**Operating phase**	Single phase		
Counting direction is specified by	User program (internal direction control)	**Initial counting direction**	Count up		
Frequency measuring period	-/-sec				
High speed counters (HSC)\HSC4\Reset to initial values\Reset values					
Initial counter value	0	**Initial reference value**	0		
High speed counters (HSC)\HSC4\Reset to initial values\Reset options					
Use external reset input	0	**Reset signal level**	-/-		
High speed counters (HSC)\HSC4\Event configuration					
Generate interrupt for counter value equals reference value event.	0	**RidPrefixCvEqualsPv**	49152	**Event name:**	0
Hardware interrupt:	0	**Counter value equal to reference value3**	Counter value equal to reference value3	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC4\Event configuration					
Generate interrupt for external reset event.	0	**RidPrefixExternalReset**	49408	**Event name:**	0
Hardware interrupt:	0	**External reset3**	External reset3	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC4\Event configuration					
Generate interrupt for change of direction event.	0	**RidPrefixDirectionChange**	49280	**Event name:**	0
Hardware interrupt:	0	**Change of direction3**	Change of direction3	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC4\Hardware inputs					
Clock generator input	---	**HSCInput0_Status**	1	**Direction input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC4\Hardware inputs					
Direction input	---	**HSCInput1_Status**	1	**Clock generator input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC4\Hardware inputs					
Reset input	---	**HSCInput2_Status**	1	**Clock generator input**	---
Direction input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC4\I/O addresses\Input addresses					
Start address	1012	**End address**	1015	**Organization block**	0
Process image	0				
High speed counters (HSC)\HSC4\Hardware identifier\Hardware identifier					
Hardware identifier	262				
High speed counters (HSC)\HSC5\General\Enable					
Enable this high speed counter	0				
High speed counters (HSC)\HSC5\General\Project information					
Name	HSC_5	**Comment**			
High speed counters (HSC)\HSC5\Function					
Type of counting	Count	**Operating phase**	Single phase		
Counting direction is specified by	User program (internal direction control)	**Initial counting direction**	Count up		
Frequency measuring period	-/-sec				
High speed counters (HSC)\HSC5\Reset to initial values\Reset values					
Initial counter value	0	**Initial reference value**	0		

High speed counters (HSC)\HSC5\Reset to initial values\Reset options					
Use external reset input	0	**Reset signal level**	-/-		
High speed counters (HSC)\HSC5\Event configuration					
Generate interrupt for counter value equals reference value event.	0	**RidPrefixCvEqualsPv**	49152	**Event name:**	0
Hardware interrupt:	0	**Counter value equal to reference value4**	Counter value equal to reference value4	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC5\Event configuration					
Generate interrupt for external reset event.	0	**RidPrefixExternalReset**	49408	**Event name:**	0
Hardware interrupt:	0	**External reset4**	External reset4	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC5\Event configuration					
Generate interrupt for change of direction event.	0	**RidPrefixDirectionChange**	49280	**Event name:**	0
Hardware interrupt:	0	**Change of direction4**	Change of direction4	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC5\Hardware inputs					
Clock generator input	---	**HSCInput0_Status**	1	**Direction input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC5\Hardware inputs					
Direction input	---	**HSCInput1_Status**	1	**Clock generator input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC5\Hardware inputs					
Reset input	---	**HSCInput2_Status**	1	**Clock generator input**	---
Direction input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC5\I/O addresses\Input addresses					
Start address	1016	**End address**	1019	**Organization block**	0
Process image	0				
High speed counters (HSC)\HSC5\Hardware identifier\Hardware identifier					
Hardware identifier	263				
High speed counters (HSC)\HSC6\General\Enable					
Enable this high speed counter	0				
High speed counters (HSC)\HSC6\General\Project information					
Name	HSC_6	**Comment**			
High speed counters (HSC)\HSC6\Function					
Type of counting	Count	**Operating phase**	Single phase		
Counting direction is specified by	User program (internal direction control)	**Initial counting direction**	Count up		
Frequency measuring period	-/-sec				
High speed counters (HSC)\HSC6\Reset to initial values\Reset values					
Initial counter value	0	**Initial reference value**	0		
High speed counters (HSC)\HSC6\Reset to initial values\Reset options					
Use external reset input	0	**Reset signal level**	-/-		
High speed counters (HSC)\HSC6\Event configuration					
Generate interrupt for counter value equals reference value event.	0	**RidPrefixCvEqualsPv**	49152	**Event name:**	0
Hardware interrupt:	0	**Counter value equal to reference value5**	Counter value equal to reference value5	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC6\Event configuration					
Generate interrupt for external reset event.	0	**RidPrefixExternalReset**	49408	**Event name:**	0
Hardware interrupt:	0	**External reset5**	External reset5	**ValueNull**	0
ValueNull	0	**EventPriority**	6		

High speed counters (HSC)\HSC6\Event configuration					
Generate interrupt for change of direction event.	0	**RidPrefixDirectionChange**	49280	**Event name:**	0
Hardware interrupt:	0	**Change of direction5**	Change of direction5	**ValueNull**	0
ValueNull	0	**EventPriority**	6		
High speed counters (HSC)\HSC6\Hardware inputs					
Clock generator input	---	**HSCInput0_Status**	1	**Direction input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC6\Hardware inputs					
Direction input	---	**HSCInput1_Status**	1	**Clock generator input**	---
Reset input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC6\Hardware inputs					
Reset input	---	**HSCInput2_Status**	1	**Clock generator input**	---
Direction input	---	**Adapter name the user control should use for the address string**	HscChannel.AddressString	**Adapter name the user control should use for the SpeedAndSourceDisplay**	HscChannel.SpeedAndSourceDisplay
Adapter name the user control should use for the Output Source	HscChannel.OutputSource				
High speed counters (HSC)\HSC6\I/O addresses\Input addresses					
Start address	1020	**End address**	1023	**Organization block**	0
Process image	0				
High speed counters (HSC)\HSC6\Hardware identifier\Hardware identifier					
Hardware identifier	264				
Pulse generators (PTO/PWM)\PTO1/PWM1\General\Enable					
Enable this pulse generator	0				
Pulse generators (PTO/PWM)\PTO1/PWM1\General\Project information					
Name	Pulse_1	**Comment**			
Pulse generators (PTO/PWM)\PTO1/PWM1\Parameter assignment\Pulse options					
Signal type	PWM	**Time base:**	Milliseconds	**Pulse duration format**	Hundredths
Cycle time	100ms	**Initial pulse duration**	50Hundredths		
Pulse generators (PTO/PWM)\PTO1/PWM1\Hardware outputs					
Enable direction output	0				
Pulse generators (PTO/PWM)\PTO1/PWM1\Hardware outputs					
Pulse output	%Q4.0	**PulseOutput1_Status**	1	**Adapter name the user control should use for the address string**	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	**Adapter name the user control should use for the Output Source**	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO1/PWM1\Hardware outputs					
PulseOutput2_Status	1	**Pulse output**	%Q4.0	**Adapter name the user control should use for the address string**	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	**Adapter name the user control should use for the Output Source**	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO1/PWM1\I/O addresses\Output addresses					
Start address	1000	**End address**	1001	**Organization block**	0
Process image	0				
Pulse generators (PTO/PWM)\PTO1/PWM1\Hardware identifier\Hardware identifier					
Hardware identifier	265				
Pulse generators (PTO/PWM)\PTO2/PWM2\General\Enable					
Enable this pulse generator	0				
Pulse generators (PTO/PWM)\PTO2/PWM2\General\Project information					
Name	Pulse_2	**Comment**			
Pulse generators (PTO/PWM)\PTO2/PWM2\Parameter assignment\Pulse options					
Signal type	PWM	**Time base:**	Milliseconds	**Pulse duration format**	Hundredths
Cycle time	100ms	**Initial pulse duration**	50Hundredths		
Pulse generators (PTO/PWM)\PTO2/PWM2\Hardware outputs					
Enable direction output	0				

Pulse generators (PTO/PWM)\PTO2/PWM2\Hardware outputs					
Pulse output	%Q4.2	**PulseOutput1_Status**	1	**Adapter name the user control should use for the address string**	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	**Adapter name the user control should use for the Output Source**	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO2/PWM2\Hardware outputs					
PulseOutput2_Status	1	**Pulse output**	%Q4.2	**Adapter name the user control should use for the address string**	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	**Adapter name the user control should use for the Output Source**	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO2/PWM2\I/O addresses\Output addresses					
Start address	1002	**End address**	1003	**Organization block**	0
Process image	0				
Pulse generators (PTO/PWM)\PTO2/PWM2\Hardware identifier\Hardware identifier					
Hardware identifier	266				
Pulse generators (PTO/PWM)\PTO3/PWM3\General\Enable					
Enable this pulse generator	0				
Pulse generators (PTO/PWM)\PTO3/PWM3\General\Project information					
Name	Pulse_3	**Comment**			
Pulse generators (PTO/PWM)\PTO3/PWM3\Parameter assignment\Pulse options					
Signal type	PWM	**Time base:**	Milliseconds	**Pulse duration format**	Hundredths
Cycle time	100ms	**Initial pulse duration**	50Hundredths		
Pulse generators (PTO/PWM)\PTO3/PWM3\Hardware outputs					
Enable direction output	0				
Pulse generators (PTO/PWM)\PTO3/PWM3\Hardware outputs					
Pulse output	%Q4.0	**PulseOutput1_Status**	1	**Adapter name the user control should use for the address string**	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	**Adapter name the user control should use for the Output Source**	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO3/PWM3\Hardware outputs					
PulseOutput2_Status	1	**Pulse output**	%Q4.0	**Adapter name the user control should use for the address string**	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	**Adapter name the user control should use for the Output Source**	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO3/PWM3\I/O addresses\Output addresses					
Start address	1004	**End address**	1005	**Organization block**	0
Process image	0				
Pulse generators (PTO/PWM)\PTO3/PWM3\Hardware identifier\Hardware identifier					
Hardware identifier	267				
Pulse generators (PTO/PWM)\PTO4/PWM4\General\Enable					
Enable this pulse generator	0				
Pulse generators (PTO/PWM)\PTO4/PWM4\General\Project information					
Name	Pulse_4	**Comment**			
Pulse generators (PTO/PWM)\PTO4/PWM4\Parameter assignment\Pulse options					
Signal type	PWM	**Time base:**	Milliseconds	**Pulse duration format**	Hundredths
Cycle time	100ms	**Initial pulse duration**	50Hundredths		
Pulse generators (PTO/PWM)\PTO4/PWM4\Hardware outputs					
Enable direction output	0				
Pulse generators (PTO/PWM)\PTO4/PWM4\Hardware outputs					
Pulse output	%Q4.2	**PulseOutput1_Status**	1	**Adapter name the user control should use for the address string**	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	**Adapter name the user control should use for the Output Source**	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO4/PWM4\Hardware outputs					
PulseOutput2_Status	1	**Pulse output**	%Q4.2	**Adapter name the user control should use for the address string**	PulseChannel.AddressString
Adapter name the user control should use for the SpeedAndSourceDisplay	PulseChannel.SpeedAndSourceDisplay	**Adapter name the user control should use for the Output Source**	PulseChannel.OutputSource		
Pulse generators (PTO/PWM)\PTO4/PWM4\I/O addresses\Output addresses					
Start address	1006	**End address**	1007	**Organization block**	0
Process image	0				

Pulse generators (PTO/PWM)\PTO4/PWM4\Hardware identifier\Hardware identifier					
Hardware identifier	268				
Startup					
Startup after POWER ON	Warm restart - mode before POWER OFF	**Comparison preset to actual configuration**	Startup CPU even if mismatch	**Configuration time for central and distributed I/O**	60000ms
OBs should be interruptible	1				
Cycle					
Cycle monitoring time	150ms			**Enable minimum cycle time for cyclic OBs**	0
Minimum cycle time	1ms				
Communication load					
Cycle load due to communication	20%				
System and clock memory\System memory bits					
Enable the use of system memory byte	0	**Address of system memory byte (MBx)**	1	**First cycle**	
Diagnostic status changed		**Always 1 (high)**		**Always 0 (low)**	
System and clock memory\Clock memory bits					
Enable the use of clock memory byte	0	**Address of clock memory byte (MBx)**	0	**10 Hz clock**	
5 Hz clock		**2.5 Hz clock**		**2 Hz clock**	
1.25 Hz clock		**1 Hz clock**		**0.625 Hz clock**	
0.5 Hz clock					
Web server\General					
Activate Web server on all modules of this device	False	**Permit access only with HTTPS**	True		
Web server\Automatic update					
Enable automatic update	True	**Update interval**	0s		

Web server\User interface languages	
Assign project language	**User interface languages**
English (United States)	German
English (United States)	English
English (United States)	French
English (United States)	Spanish
English (United States)	Italian
English (United States)	Chinese (simplified)

Web server\User management	
User name	**User rights**
Everybody	

Web server\User defined web pages					
Application name	**HTML source path**	**Default HTML page**	**Files with dynamic content**	**Web DB number**	**Fragment DB number**
		index.htm	.htm;.html	333	334

Web server\Overview of interfaces		
Device	**Interface**	**Enabled web server access**
PLC_1	PROFINET interface_1	False

User interface languages	
Assign project language	**User interface languages**
English (United States)	German
English (United States)	English
English (United States)	French
English (United States)	Spanish
English (United States)	Italian
English (United States)	Chinese (simplified)

Time of day\Local time					
Time zone	(UTC +01:00) Berlin, Bern, Brussels, Rome, Stockholm, Vienna				
Time of day\Daylight saving time					
Activate daylight saving time	1	**Difference between standard and daylight saving time**	60mins		
Time of day\Daylight saving time\Start of daylight saving time					
Starting week of the month:	Last		Sunday	**of**	March
at	01:00 a.m.				
Time of day\Daylight saving time\Start of standard time					
	Last		Sunday	**of**	October
at	02:00 a.m.				
Protection					
Level of protection	No protection				
Protection\Connection mechanisms					
Permit access with PUT/GET communication from remote partner (PLC, HMI, OPC, ...)	False				
Configuration control\Configuration control for central configuration					
Allow to reconfigure the device via the user program	0				
Anchor (AddressesOverviewMenu)					
Inputs	True	**Outputs**	True	**Address gaps**	False
Slot	True				

Anchor (AddressesOverviewMenu)\Overview of addresses

Type	Addr. from	Addr. to	Module	PIP	DP	PN	Rack	Slot
I	0	0	DI 8/DQ 6_1	None	-	-	0	1 1
I	64	67	AI 2_1	None	-	-	0	1 2
I	1000	1003	HSC_1	None	-	-	0	1 16
I	1004	1007	HSC_2	None	-	-	0	1 17
I	1008	1011	HSC_3	None	-	-	0	1 18
I	1012	1015	HSC_4	None	-	-	0	1 19
I	1016	1019	HSC_5	None	-	-	0	1 20
I	1020	1023	HSC_6	None	-	-	0	1 21
O	0	0	DI 8/DQ 6_1	None	-	-	0	1 1
O	1000	1001	Pulse_1	None	-	-	0	1 32
O	1002	1003	Pulse_2	None	-	-	0	1 33
O	1004	1005	Pulse_3	None	-	-	0	1 34
O	1006	1007	Pulse_4	None	-	-	0	1 35
O	4	4	DQ 4x24VDC_1	None	-	-	0	1 3
O	96	99	AQ 2x14BIT_1	None	-	-	0	2

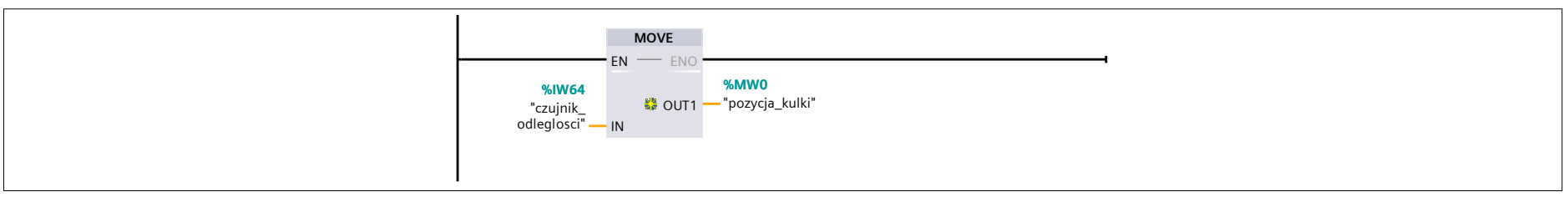
PLC_1 [CPU 1212C AC/DC/Rly] / Program blocks

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**					

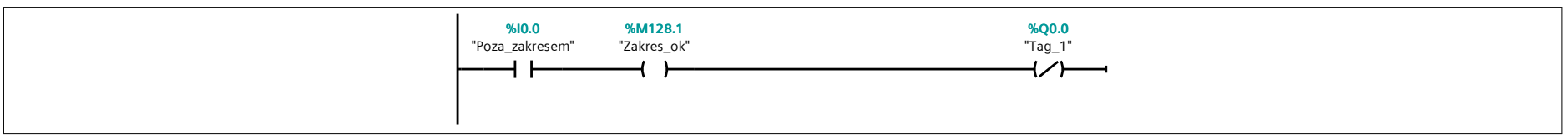
Name	Data type	Default value	Comment
Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

Network 1:



Symbol	Address	Type	Comment
"czujnik_odleglosci"	%IW64	Word	
"pozycja_kulki"	%MW0	Word	

Network 2:



Symbol	Address	Type	Comment
"Poza_zakresem"	%I0.0	Bool	
"Tag_1"	%Q0.0	Bool	
"Zakres_ok"	%M128.1	Bool	

PLC_1 [CPU 1212C AC/DC/Rly]

Technology objects

This folder is empty.

PLC_1 [CPU 1212C AC/DC/Rly] / PLC tags / Default tag table [45]

PLC tags

PLC tags

	Name	Data type	Address	Retain	Visible in HMI	Accessible from HMI	Comment
	czujnik_odleglosci	Word	%IW64	False	True	True	
	pozycja_kulki	Word	%MW0	False	True	True	
	PWM_Start	Bool	%M128.0	False	True	True	
	Zakres_ok	Bool	%M128.1	False	True	True	
	Poza_zakresem	Bool	%I0.0	False	True	True	
	Stan_PWM	Word	%MW2	False	True	True	
	Zadany_PWM	Word	%MW4	False	True	True	
	Wartosc_PWM	Word	%QW1000	False	True	True	
	Manual_ON	Bool	%M128.2	False	True	True	
	War_zadana	Real	%MD6	False	True	True	
	Ster_manual	Real	%MD10	False	True	True	
	Obroty	DWord	%ID1004	False	True	True	
	RPM	DWord	%MD14	False	True	True	
	blad_poz	Real	%MD20	False	True	True	
	Tag_1	Bool	%Q0.0	False	True	True	

PLC_1 [CPU 1212C AC/DC/Rly] / PLC tags / Default tag table [45]

User constants

User constants				
	Name	Data type	Value	Comment

PLC_1 [CPU 1212C AC/DC/Rly]

PLC data types

This folder is empty.

PLC_1 [CPU 1212C AC/DC/Rly] / Watch and force tables

Force table

Name	Address	Display format	Force value	Comment

PLC_1 [CPU 1212C AC/DC/Rly] / Traces

Measurements

This folder is empty.

PLC_1 [CPU 1212C AC/DC/Rly]

Text lists

This folder is empty.

PLC_1 [CPU 1212C AC/DC/Rly] / Local modules

DQ 4x24VDC_1

DQ 4x24VDC_1					
General\Project information					
Name	DQ 4x24VDC_1	**Comment**			
General\Catalog information					
Short designation	DQ4 signal board (200 kHz)	**Description**	Signal board DQ4 x 24VDC / 200 kHz; plug-in terminal blocks	**Article number**	6ES7 222-1BD30-0XB0
Firmware version	V1.0				
Digital outputs					
Reaction to CPU STOP	Use substitute value				
Digital outputs\Channel0					
Channel address	Q4.0	**Substitute a value of 1 on a change from RUN to STOP.**	0		
Digital outputs\Channel1					
Channel address	Q4.1	**Substitute a value of 1 on a change from RUN to STOP.**	0		
Digital outputs\Channel2					
Channel address	Q4.2	**Substitute a value of 1 on a change from RUN to STOP.**	0		
Digital outputs\Channel3					
Channel address	Q4.3	**Substitute a value of 1 on a change from RUN to STOP.**	0		
I/O addresses\Output addresses					
Start address	4	**End address**	4	**Organization block**	0
Process image	0				
Hardware identifier\Hardware identifier					
Hardware identifier	269				

PLC_1 [CPU 1212C AC/DC/Rly] / Local modules

AQ 2x14BIT_1

AQ 2x14BIT_1					
General\Project information					
Name	AQ 2x14BIT_1	**Author**	admin	**Comment**	
Slot	2				
General\Catalog information					
Short designation	SM 1232 AQ2	**Description**	Analog output module AQ2 x 14 bits; plug-in terminal blocks; output: +/-10V and 0 to 20 mA; selectable diagnostics; selectable substitute value for output	**Article number**	6ES7 232-4HB32-0XB0
Firmware version	V2.0				
AQ 2\Project information					
Name	AQ 2x14BIT_1	**Comment**			
AQ 2\Module diagnostics					
Enable power supply diagnostics	1	**Additional diagnostics may be selected for each input/ output.**			
AQ 2\Analog outputs					
Reaction to CPU STOP	Use substitute value				
AQ 2\Analog outputs\Channel0					
Channel address	QW96	**Analog output type**	Voltage	**Voltage range**	+/- 10 V
Substitute value for channel on a change from RUN to STOP	0.000V			**Enable short circuit diagnostics**	1
Enable overflow diagnostics	1	**Enable underflow diagnostics**	1		
AQ 2\Analog outputs\Channel1					
Channel address	QW98	**Analog output type**	Voltage	**Voltage range**	+/- 10 V
Substitute value for channel on a change from RUN to STOP	0.000V			**Enable short circuit diagnostics**	1
Enable overflow diagnostics	1	**Enable underflow diagnostics**	1		
AQ 2\I/O addresses\Output addresses					
Start address	96	**End address**	99	**Organization block**	0
Process image	0				
AQ 2\Hardware identifier\Hardware identifier					
Hardware identifier	270				