PLC_1 [CPU 1516-3 PN/DP]

PLC_1			
General\Project information			
Name	PLC_1	**Author**	IIruoha
Comment		**Rack**	0
Slot	1		
General\Catalog information			
Short designation	CPU 1516-3 PN/DP	**Description**	CPU with display; work memory 1 MB code and 5 MB data; 10 ns bit instruction time; 4-stage protection concept, technology functions: motion control, closed-loop control, counting & measuring; tracing; 1st interface: PROFINET IO controller, supports RT/IRT, performance upgrade PROFINET V2.3, 2 ports, I-device, MRP, MRPD, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, DNS client, OPC UA: server DA, client DA, methods, companion specifications; constant bus cycle time, routing; 2nd interface: PROFINET IO controller, supports RT, I-device, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, DNS client, OPC UA: server DA, client DA, methods, companion specifications; routing; 3rd interface: PROFIBUS DP master, S7 communication, constant bus cycle time, routing; Runtime options, firmware V2.6
Article number	6ES7 516-3AN01-0AB0	**Firmware version**	V2.6
General\Identification & Maintenance			
Plant designation		**Location identifier**	
Installation date	2023-06-12 11:45:26.087	**Additional information**	
General\Checksums			
Text lists	FA 70 E8 75 1D 5A 8E 29	**Software**	E9 7D CF 95 3F 71 4F F9
PROFINET interface [X1]\General			
Name	PROFINET interface_1	**Author**	IIruoha
Comment			
PROFINET interface [X1]\Ethernet addresses\Interface networked with			
Subnet:	Not connected		
PROFINET interface [X1]\Ethernet addresses\IP protocol			
IP configuration	Set IP address in the project	**IP address:**	192.168.0.1

Owner	Project name TrainingModules		Date 6/16/2023
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Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
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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.profinet interface_1	**Converted name:**	plcxb1.profinetxainterfacexb1036c
Device number:	0		
PROFINET interface [X1]\Time synchronization\NTP mode			
Note	Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].	**Enable time synchronization via NTP server**	False
	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**	10s
PROFINET interface [X1]\Operating mode			
IO controller	True	**IO system**	
Device number	0	**IO device**	False
PROFINET interface [X1]\Advanced options\Interface options			
Call the user program if communication errors occur	False	**Support device replacement without exchangeable medium**	True
Permit overwriting of device names of all assigned IO devices	False	**Limit data infeed into the network**	True
Use IEC V2.2 LLDP mode	False	**Keep-Alive connection monitoring:**	30s
PROFINET interface [X1]\Advanced options\Real time settings\IO communication			
Send clock:	1.000ms		
PROFINET interface [X1]\Advanced options\Real time settings\Synchronization			
RT class:	RT,IRT		
PROFINET interface [X1]\Advanced options\Real time settings\Real time options			
Calculated bandwidth for cyclic IO data:	0.000ms	**Calculated bandwidth for cyclic IO data:**	0.000%
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\General			
Name	Port_1	**Author**	IIruoha
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1 R]	**Medium:**	Copper
Cable name:	---		

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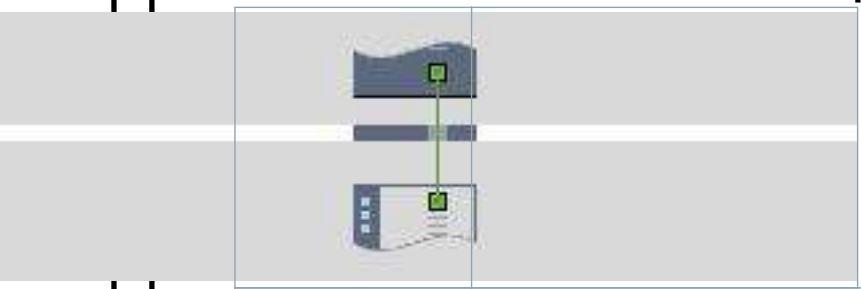
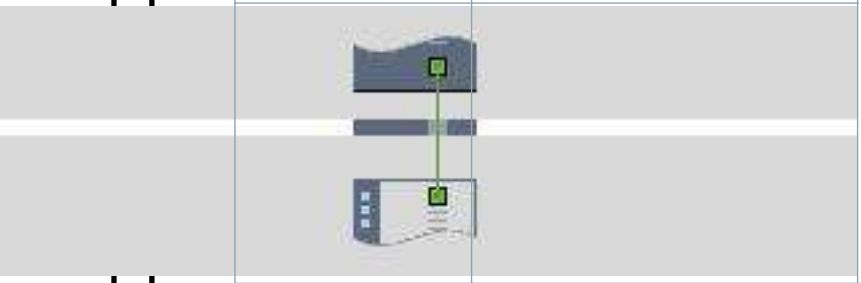


PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\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 P2 R]\General			
Name	Port_2	**Author**	IIruoha
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_2 [X1 P2 R]	**Medium:**	Copper
Cable name:	---		



PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Activate			
Activate this port for use	True		

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PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Boundaries			
End of detection of accessible devices	False	**End of topology discovery**	False
End of the sync domain	False		
PROFINET interface [X1]\Web server access			
Note	The Web server must also be activated in the properties of the PLC.	**Enable Web server using this interface**	False
PROFINET interface [X2]\General			
Name	PROFINET interface_2	**Author**	IIruoha
Comment			
PROFINET interface [X2]\Ethernet addresses\Interface networked with			
Subnet:	Not connected		
PROFINET interface [X2]\Ethernet addresses\IP protocol			
IP configuration	Set IP address in the project	**IP address:**	192.168.1.1
Subnet mask:	255.255.255.0	**Use router**	False
PROFINET interface [X2]\Ethernet addresses\PROFINET			
PROFINET device name is set directly at the device	False	**Generate PROFINET device name automatically**	True
PROFINET device name:	plc_1.profinet interface_2	**Converted name:**	plcxb1.profinetxainterfacexb2022c
Device number:	0		
PROFINET interface [X2]\Time synchronization\NTP mode			
Note	Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].	**Enable time synchronization via NTP server**	False
	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**	10s
PROFINET interface [X2]\Operating mode			
IO controller	True	**IO system**	
Device number	0	**IO device**	False
PROFINET interface [X2]\Advanced options\Interface options			
Call the user program if communication errors occur	False	**Support device replacement without exchangeable medium**	True
Permit overwriting of device names of all assigned IO devices	False	**Limit data infeed into the network**	False

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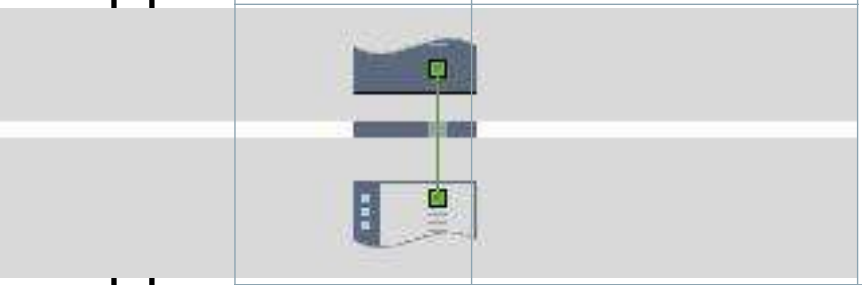
Use IEC V2.2 LLDP mode	False	**Keep-Alive connection monitoring:**	30s
PROFINET interface [X2]\Advanced options\Real time settings\IO communication			
Send clock:	1.000ms		
PROFINET interface [X2]\Advanced options\Real time settings\Real time options			
Calculated bandwidth for cyclic IO data:	0.000ms	**Calculated bandwidth for cyclic IO data:**	0.000%
PROFINET interface [X2]\Advanced options\Port [X2 P1]\General			
Name	Port_1	**Author**	IIruoha
Comment			
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_2 [X2]\Port_1 [X2 P1]	**Medium:**	Copper
Cable name:	---		



PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Boundaries			
End of detection of accessible devices	False	**End of topology discovery**	False
End of the sync domain	False		
PROFINET interface [X2]\Web server access			
Note	The Web server must also be activated in the properties of the PLC.	**Enable Web server using this interface**	False
DP interface [X3]\General			
Name	DP interface_1	**Author**	IIruoha
Comment			
DP interface [X3]\PROFIBUS address\Interface networked with			
Subnet:	Not networked		

DP interface [X3]\PROFIBUS address\Parameters			
Address:	2	**Highest address:**	
Transmission speed:			
DP interface [X3]\Operating mode			
Operating mode	DP master	**DP master system:**	Not created
DP interface [X3]\Time synchronization\SIMATIC mode			
Synchronization type	None	**Time interval**	None

DP interface [X3]\SYNC/FREEZE			
Group	**SYNC**	**FREEZE**	**Comment**
1	True	True	
2	True	True	
3	True	True	
4	True	True	
5	True	True	
6	True	True	
7	True	True	
8	True	True	

Startup			
Startup after POWER ON	Warm restart - Operating mode before POWER OFF	**Comparison preset to actual configuration**	Startup CPU even if mismatch
Configuration time	60000ms		
Cycle			
Maximum cycle time	150ms		
Enable minimum cycle time for cyclic OBs	True	**Minimum cycle time**	1ms
Communication load			
Cycle load due to communication	50%		
System and clock memory\System memory bits			
Enable the use of system memory byte	False	**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	False	**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**	
SIMATIC Memory Card\Diagnostics			
Aging of the SIMATIC memory card	False	**Threshold value**	80%

System diagnostics\General			
Activate system diagnostics for this device	True	**Report network faults as maintenance instead of fault**	False
PLC alarms\General			
Central alarm management in the PLC	True		
Web server\General			
Activate web server on this module	False	**Permit access only with HTTPS**	True
Web server\Automatic update			
Enable automatic update	True	**Update interval**	0s

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
PLC_1	PROFINET interface_2	False

DNS configuration			
No DNS server address is configured.			
Display\General\Display standby mode			
Time to standby mode	30 minutes		
Display\General\Energy saving mode			
Time to energy saving mode	15 minutes		
Display\General\Display language			
Default language on display	English		
Display\Automatic update			
Time to update	5 seconds		
Display\Password\Display protection			
Enable write access	True	**Enable display protection**	False
Display\User-defined logo			
User logo activated	False	**Adapt logo**	False
Resolution	240x260	**Company logo**	---

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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)	Japanese
English (United States)	Chinese (simplified)
English (United States)	Korean
English (United States)	Russian
English (United States)	Turkish
English (United States)	Portuguese (Brazil)

Time of day\Local time			
Time zone	(UTC) Dublin, Edinburgh, Lisbon, London		

Time of day\Daylight saving time			
Activate daylight saving time	True	**Difference between standard and day-light saving time**	60mins

Time of day\Daylight saving time\Start of daylight saving time			
Selection of the week	Last	**Selection of the weekday**	Sunday
of	March	**at**	01:00 a.m.

Time of day\Daylight saving time\Start of standard time			
Selection of the week	Last	**Selection of the weekday**	Sunday
of	October	**at**	02:00 a.m.

Protection	
Level of protection	Full access (no protection)

Protection\Connection mechanisms	
Permit access with PUT/GET communi-cation from remote partner	True

Protection\Security event			
Summarize security events in case of high message vol-ume	True	**Length of an inter-val**	20
Unit	seconds		

OPC UA\Accessibility of the server	
Activate OPC UA server	False

OPC UA\Accessibility of the client	
Activate OPC UA cli-ent	False

System power supply\General	
General	Connection to supply voltage L+

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System power supply\\Power segment overview		
Module	**Slot**	**Supply/consumption**
PLC_1	1	12.00W
	Summary	12.00W

Configuration control\Configuration control for central configuration	
Allow reconfiguration of device via the user program	False

Connection resources\				
	Station resources - Reserved - Maximum	**Station resources - Reserved - Configured**	**Station resources - Dynamic - Configured**	**Module resources - PLC_1 [CPU 1516-3 PN/DP] - Configured**
Maximum number of resources:		10	118	128
	Maximum	Configured	Configured	Configured
PG communication:	4	-	-	-
HMI communication:	4	0	0	0
S7 communication:	0	-	0	0
Open user communication:	0	-	0	0
Web communication:	2	-	-	-
Other communication:	-	-	0	0
Total resources used:		0	0	0
Available resources:		10	118	128

Overview of addresses\Overview of addresses\Overview of addresses			
Inputs	True	**Outputs**	True
Address gaps	False	**Slot**	True

Runtime licenses\OPC UA\Runtime licenses			
Type of required license	None	**Type of purchased license**	No license

Runtime licenses\ProDiag\Supervisions	
Number of used supervisions	0

Runtime licenses\ProDiag\Runtime licenses			
Number of required licenses	None (<= 25 supervisions)	**Used ProDiag licenses**	No license

Runtime licenses\Energy Suite\Energy objects	
Number of configured energy objects	0

Runtime licenses\Energy Suite\Runtime licenses	
Total number of licensed energy objects	0

Runtime licenses\Energy Suite\Runtime licenses\Number of purchased licenses			
License type '5 energy objects'	No license	**License type '10 energy objects'**	No license

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PLC_1 [CPU 1516-3 PN/DP]

Software units

This folder is empty.

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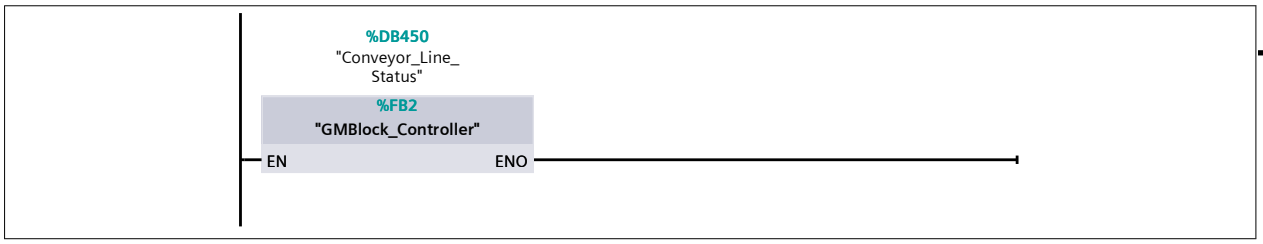
PLC_1 [CPU 1516-3 PN/DP] / Program blocks

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: GMBlock Controller



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PLC_1 [CPU 1516-3 PN/DP] / Program blocks

CVR Logic [FB1]

CVR Logic Properties			
General			
Name	CVR Logic	**Number**	1
Type	FB	**Language**	LAD
Numbering	Automatic		
Information			
Title	Conveyor Logic	**Author**	
Comment		**Family**	
Version	0.1	**User-defined ID**	

Name	Input	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Auto Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	EStop	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Stop PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Manual Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Jog FWD PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Part Present	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Reset Part Count	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Turn Table Homed	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Part Loaded	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	No Mode	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Jog REV PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼			
Name	Output	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Contactor Reverse	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate reverse
Name	Contactor Forward	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate forward
Name	Counter Output	**Data type**	Word
Default value	16#0	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	InOut	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	

Name	Static	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	CV Forward Manual	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
Name	CV Forward Auto	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	

/

Name	Part Counter	**Data type**	CTU_INT
Default value		**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
Name	CU	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	CD	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	R	**Data type**	Bool
Default value	false	**Retain**	Retain
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	LD	**Data type**	Bool
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	CV	**Data type**	Int
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Conveyor Started	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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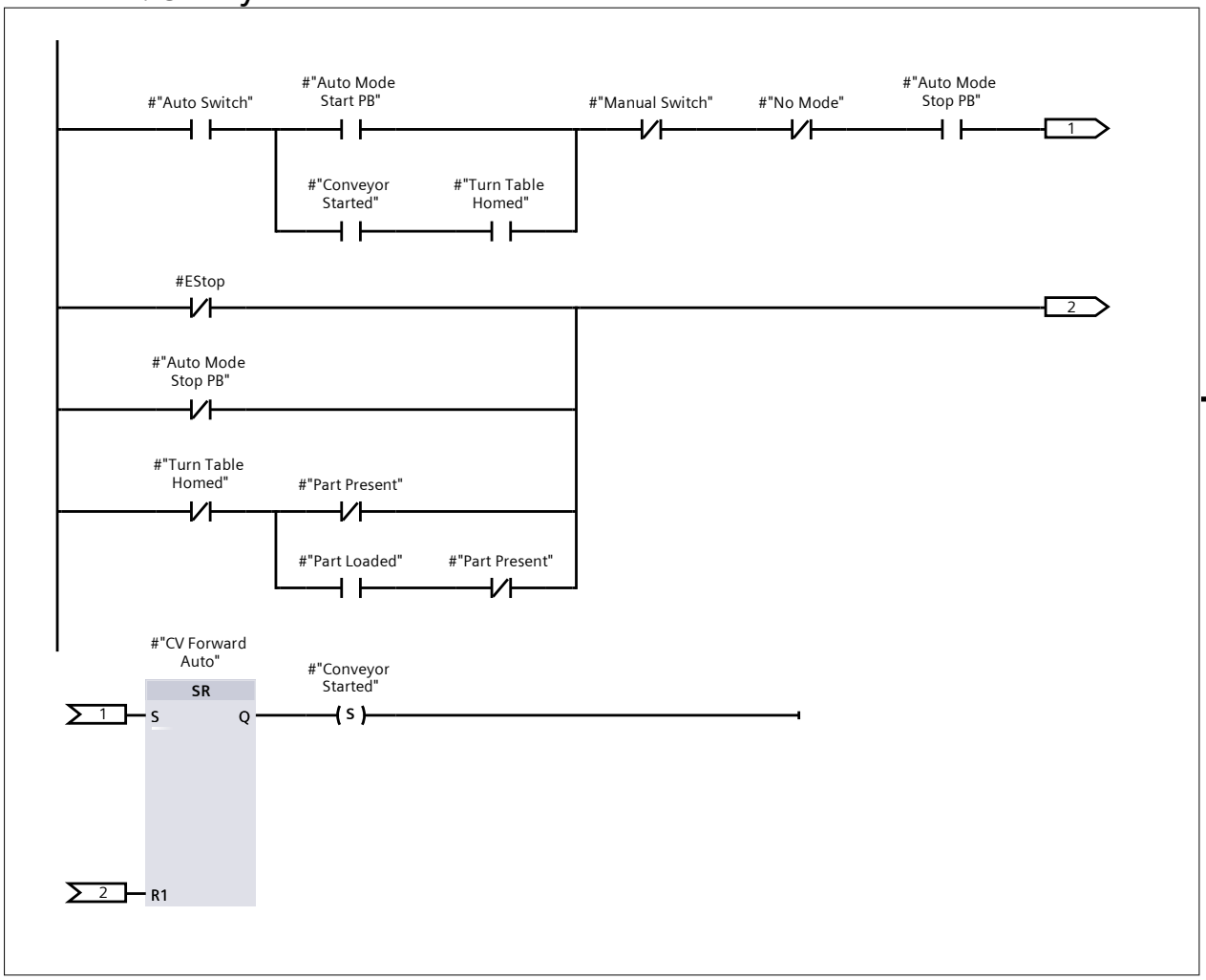
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	

Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Constant	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	

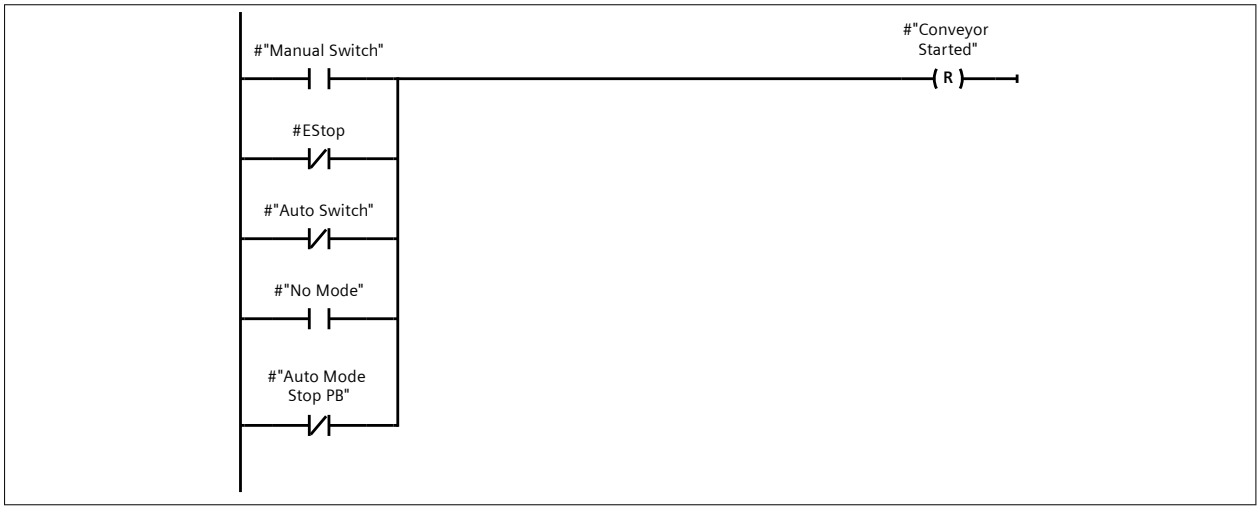
Network 1: Conveyor Auto Mode

Network 1: Conveyor Auto Mode

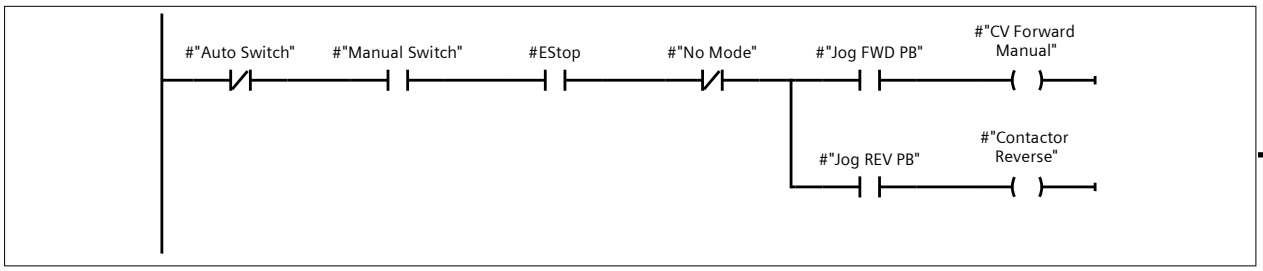


Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 6

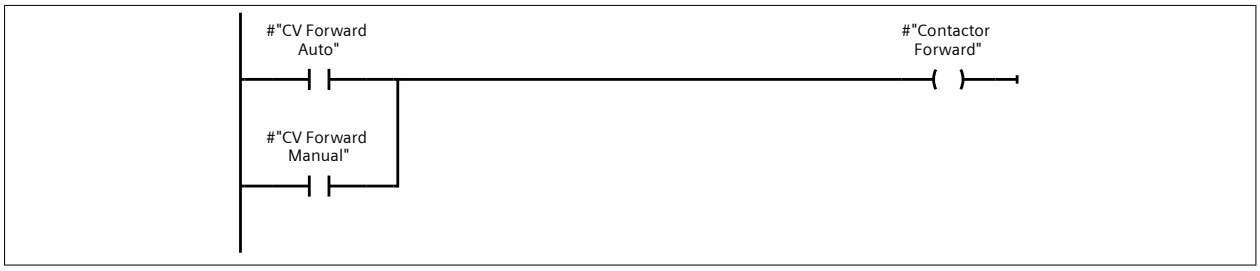
Network 2: Reset the Conveyor Started Condition



Network 3: Conveyor Manual Jog Forward/Reverse

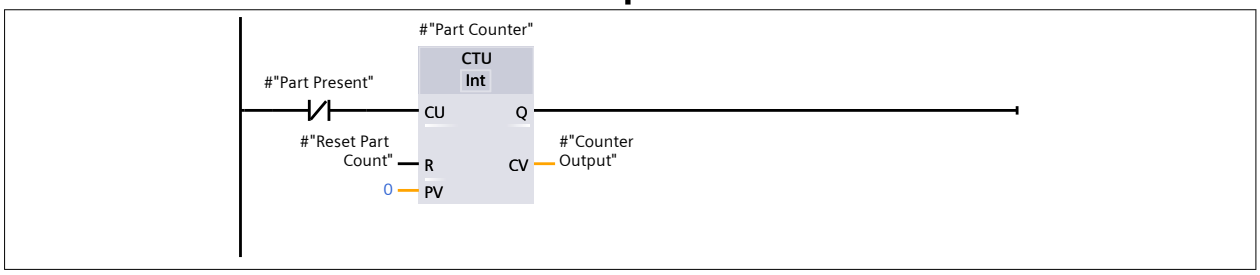


Network 4: Enable Conveyor Forward Movement



Network 5: Part Counter with Reset

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 7



Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 4 - 8

PLC_1 [CPU 1516-3 PN/DP] / Program blocks

GMBlock_Controller [FB2]

GMBlock_Controller Properties			
General			
Name	GMBlock_Controller	**Number**	2
Type	FB	**Language**	LAD
Numbering	Automatic		
Information			
Title	Conveyor and Turn Table Control Hub	**Author**	
Comment		**Family**	
Version	0.1	**User-defined ID**	

Name	Input	**Data type**	
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Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Output	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	InOut	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
▼			
Name	Static	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
▼ /			
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Default value		**Retain**	

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 5 - 1

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
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Name	Input	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Auto Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	EStop	**Data type**	Bool
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Stop PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Manual Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Jog FWD PB	**Data type**	Bool

Default value	false	**Retain**	Non-retain
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Part Present	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Reset Part Count	**Data type**	Bool
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Turn Table Homed	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Jog REV PB	**Data type**	Bool
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	

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Name	Output	**Data type**	
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Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Contactor Reverse	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate reverse
Name	Contactor Forward	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate forward
Name	Counter Output	**Data type**	Word
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	InOut	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
▼ //			
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Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False

Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
Name	CV Forward Auto	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
▼ ///			
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Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	R	**Data type**	Bool
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	LD	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	CV	**Data type**	Int
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ /			
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Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
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Name	Input	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	

Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	EStop	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Stop PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Manual Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False

Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Turn Table Homed	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Jog REV PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ //			
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Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Contactor Reverse	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate reverse
Name	Contactor Forward	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate forward
Name	Counter Output	**Data type**	Word
Default value	16#0	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	InOut	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
▼ //			
Name	Static	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	CV Forward Manual	**Data type**	Bool
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Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
Name	CV Forward Auto	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	

///			
Name	Part Counter	**Data type**	CTU_INT
Default value		**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
Name	CU	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	CD	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	R	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	LD	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	QU	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	QD	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False

Supervision		**Comment**	
Name	PV	**Data type**	Int
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	CV	**Data type**	Int
Default value	0	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Conveyor Started	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ /			
Name	CVR3	**Data type**	"CVR Logic"
Default value		**Retain**	
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
▼ //			
Name	Input	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Auto Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	EStop	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Stop PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Manual Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Jog FWD PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Part Present	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Reset Part Count	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Turn Table Homed	**Data type**	Bool
Default value	false	**Retain**	Non-retain

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Part Loaded	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	No Mode	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Jog REV PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ //			
Name	Output	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Contactor Reverse	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate reverse
Name	Contactor Forward	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False

Supervision		**Comment**	Output signals for rollers to rotate forward
Name	Counter Output	**Data type**	Word
Default value	16#0	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	InOut	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
▼ //			
Name	Static	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	CV Forward Manual	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
Name	CV Forward Auto	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
▼ ///			
Name	Part Counter	**Data type**	CTU_INT
Default value		**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
Name	CU	**Data type**	Bool
Default value	false	**Retain**	Retain

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	CD	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	R	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	LD	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	QU	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	QD	**Data type**	Bool
Default value	false	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	PV	**Data type**	Int
Default value	0	**Retain**	Retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	CV	**Data type**	Int
Default value	0	**Retain**	Retain

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Conveyor Started	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ /			
Name	TT2	**Data type**	"TT Logic"
Default value		**Retain**	
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
▼ //			
Name	Input	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Auto Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	EStop	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False

Supervision		**Comment**	
Name	Auto Mode Stop PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Manual Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Rotated	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal the turntable is Rotated
Name	Home	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal the turntable is Home
Name	Entry_PP	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal a Part Present at the turntable entry
Name	No Mode	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Exit_PP	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal a Part Present at the turntable exit
//			
Name	Output	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Rollers_FWD	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals the rollers to rotate (AUTO Mode)
Name	Rotate	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals the table to rotate (AUTO Mode)
Name	InOut	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
//			
Name	Static	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Dropoff_Rollers_FWD	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Pickup_Rollers_FWD	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Elapsed Time	**Data type**	Time
Default value	T#0ms	**Retain**	Non-retain
Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
▼ ///			
Name	Turn Table Timers	**Data type**	TP_TIME
Default value		**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
Name	PT	**Data type**	Time
Default value	T#0ms	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	ET	**Data type**	Time
Default value	T#0ms	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	IN	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Q	**Data type**	Bool
Default value	false	**Retain**	Non-retain

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Stopped	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ /			
Name	TT3	**Data type**	"TT Logic"
Default value		**Retain**	
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
▼ //			
Name	Input	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Auto Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	EStop	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False

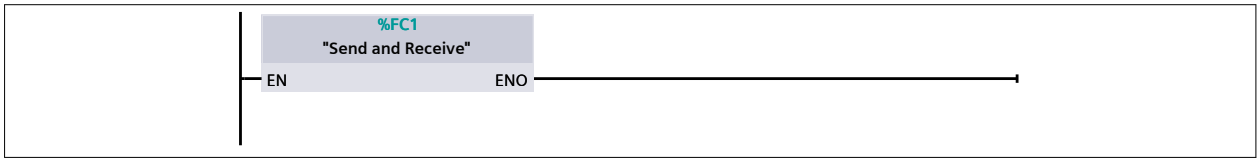
Supervision		**Comment**	
Name	Auto Mode Stop PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Manual Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Rotated	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal the turntable is Rotated
Name	Home	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal the turntable is Home
Name	Entry_PP	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal a Part Present at the turntable entry
Name	No Mode	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Exit_PP	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal a Part Present at the turntable exit
//			
Name	Output	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Rollers_FWD	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals the rollers to rotate (AUTO Mode)
Name	Rotate	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals the table to rotate (AUTO Mode)
Name	InOut	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
//			
Name	Static	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Dropoff_Rollers_FWD	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

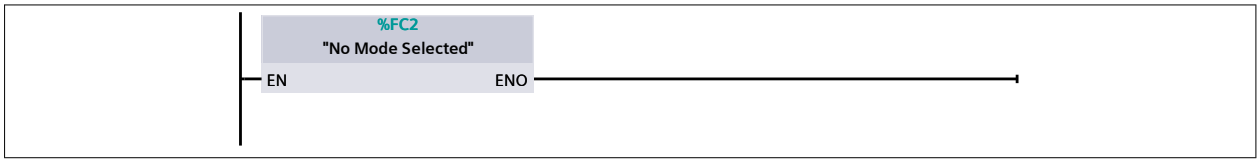
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Pickup_Rollers_FWD	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Elapsed Time	**Data type**	Time
Default value	T#0ms	**Retain**	Non-retain
Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
▼ ///			
Name	Turn Table Timers	**Data type**	TP_TIME
Default value		**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
Name	PT	**Data type**	Time
Default value	T#0ms	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	ET	**Data type**	Time
Default value	T#0ms	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	IN	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Q	**Data type**	Bool
Default value	false	**Retain**	Non-retain

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Stopped	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Temp	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Constant	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	

Network 1: Send and Receive Call

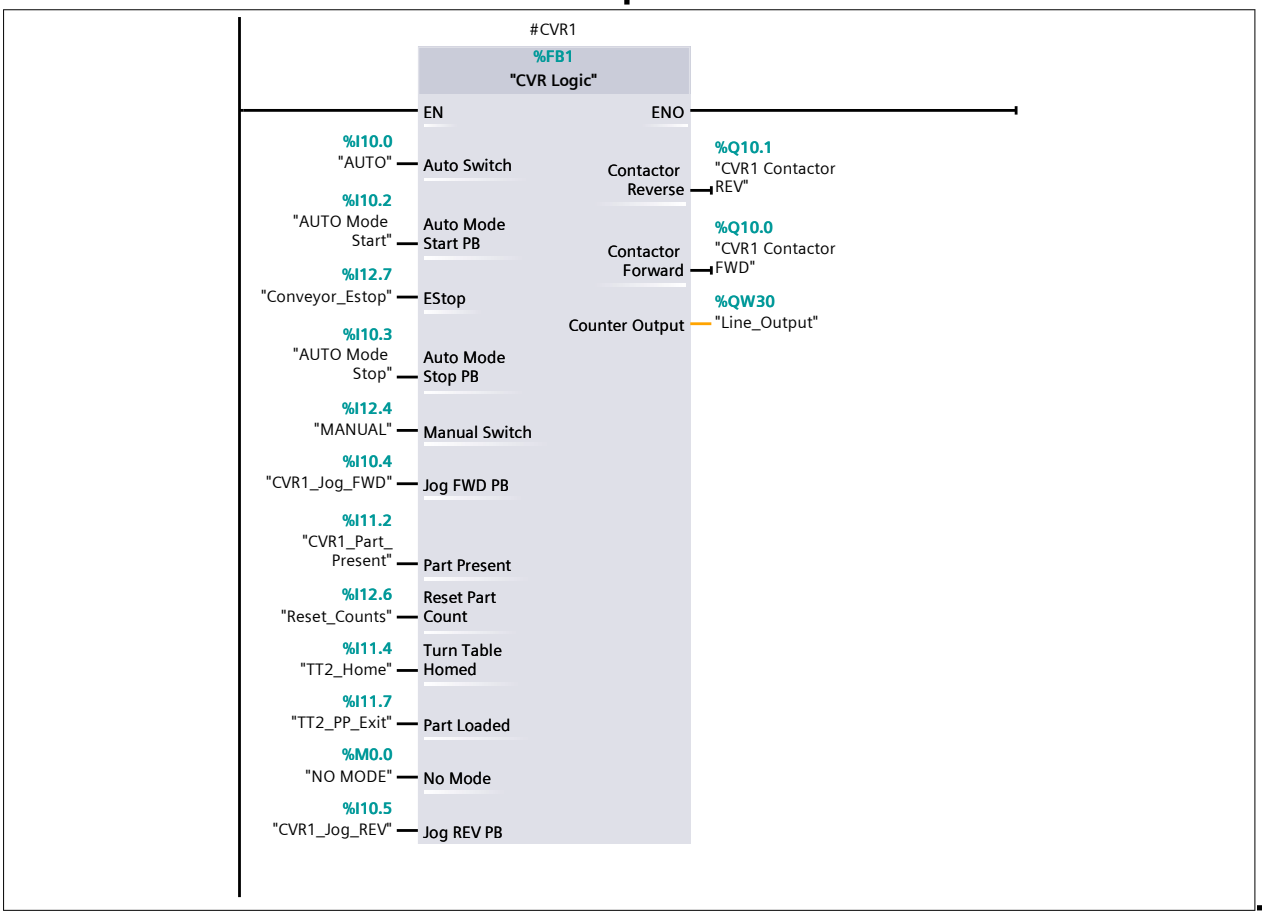


Network 2: No Mode



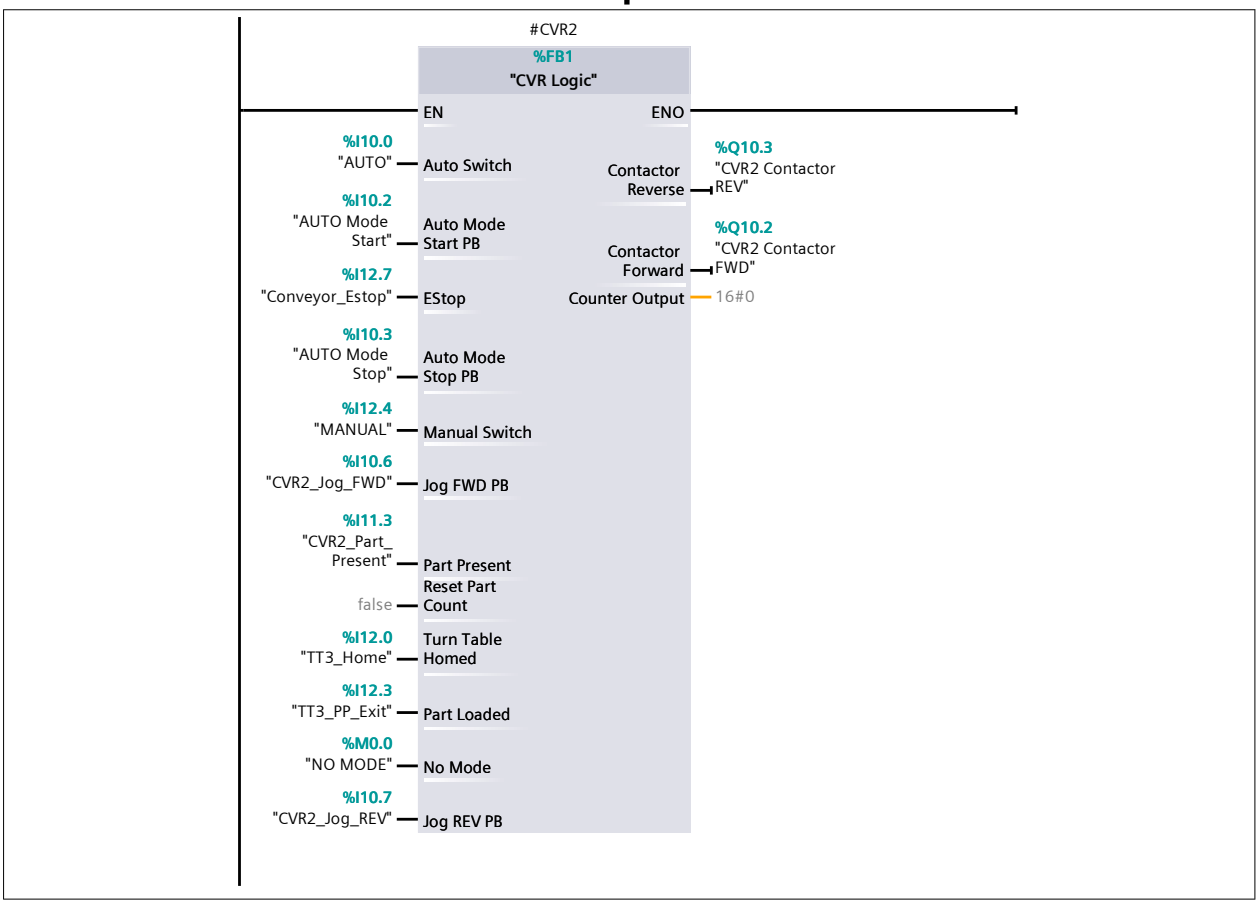
Network 3: CVR1 Call

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 5 - 24



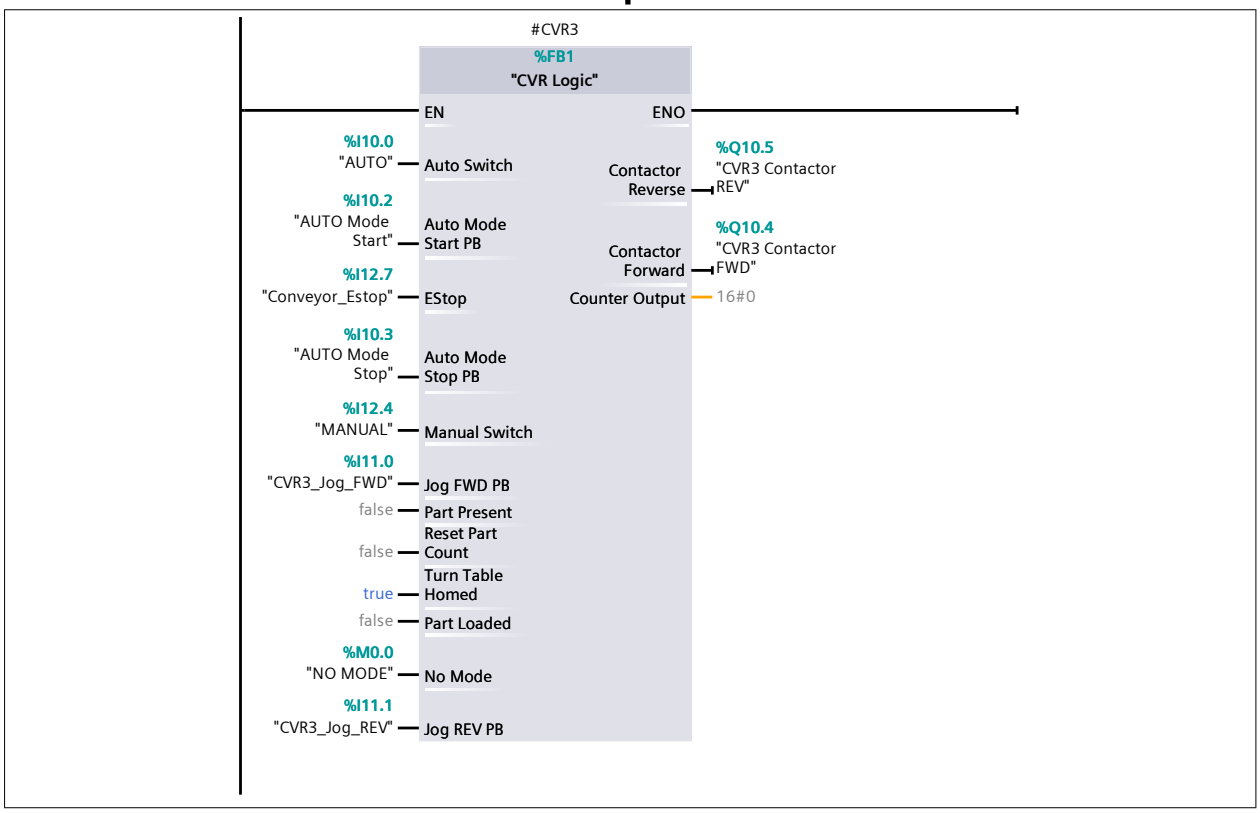
Network 4: CVR2 Call

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 5 - 25



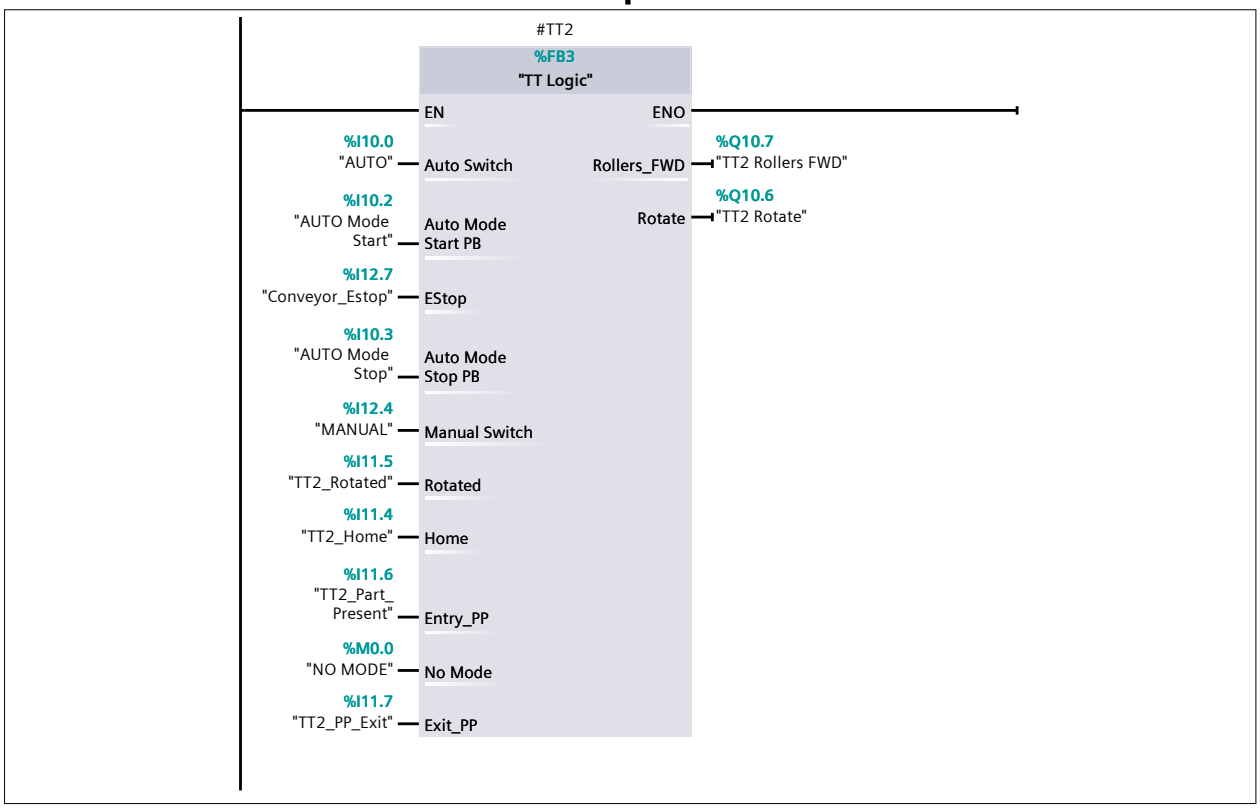
Network 5: CVR3 Call

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 5 - 26



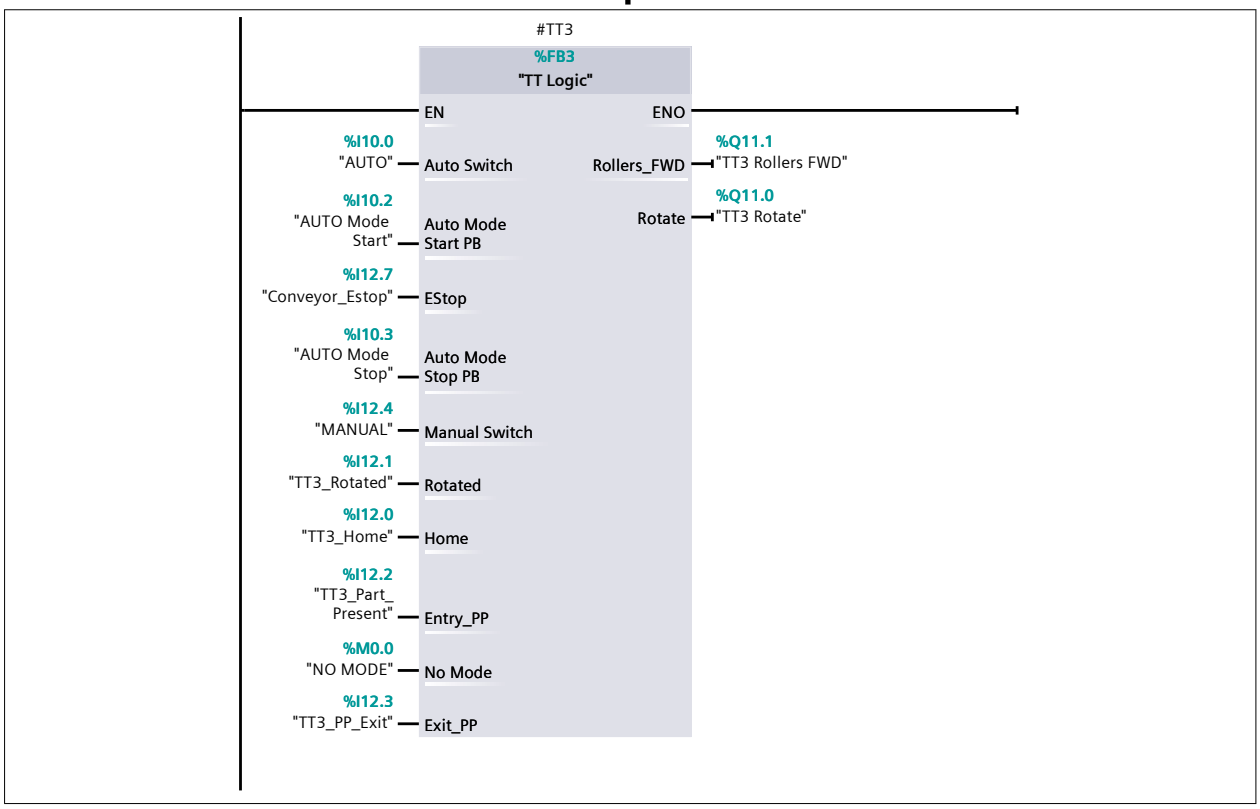
Network 6: TT2 Call

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 5 - 27



Network 7: TT3 Call

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 5 - 28



Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 5 - 29

PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Conveyor_Line_Status [DB450]

Conveyor_Line_Status Properties			
General			
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Type	DB	**Language**	DB
Numbering	Manual		
Information			
Title		**Author**	
Comment		**Family**	
Version	0.1	**User-defined ID**	

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Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 6 - 1

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Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
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Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
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Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	

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Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate reverse
Name	Contactor Forward	**Data type**	Bool
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate forward
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
▼ //			
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Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
▼ ///			
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Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Start value	false	**Retain**	True
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	CV	**Data type**	Int
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Conveyor Started	**Data type**	Bool
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
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Start value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
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Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 6 - 6

Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False

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Visible in HMI engineering	True	**Setpoint**	False
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate reverse
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate forward
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Supervision		**Comment**	
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Visible in HMI engineering	False	**Setpoint**	False
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Supervision		**Comment**	
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Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Contactor Reverse	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals for rollers to rotate reverse
Name	Contactor Forward	**Data type**	Bool
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Supervision		**Comment**	Output signals for rollers to rotate forward
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Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
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Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
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Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
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Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
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Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
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Start value	false	**Retain**	True
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	R	**Data type**	Bool
Start value	false	**Retain**	True
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	LD	**Data type**	Bool
Start value	false	**Retain**	True
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	QU	**Data type**	Bool
Start value	false	**Retain**	True
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	QD	**Data type**	Bool
Start value	false	**Retain**	True
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	PV	**Data type**	Int
Start value	0	**Retain**	True
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	CV	**Data type**	Int
Start value	0	**Retain**	True

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Conveyor Started	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ /			
Name	TT2	**Data type**	"TT Logic"
Start value		**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
▼ //			
Name	Input	**Data type**	
Start value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Auto Switch	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	EStop	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False

Supervision		**Comment**	
Name	Auto Mode Stop PB	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Manual Switch	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Rotated	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal the turntable is Rotated
Name	Home	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal the turntable is Home
Name	Entry_PP	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal a Part Present at the turntable entry
Name	No Mode	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Exit_PP	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal a Part Present at the turntable exit
//			
Name	Output	**Data type**	
Start value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Rollers_FWD	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals the rollers to rotate (AUTO Mode)
Name	Rotate	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals the table to rotate (AUTO Mode)
Name	InOut	**Data type**	
Start value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
//			
Name	Static	**Data type**	
Start value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Dropoff_Rollers_FWD	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Pickup_Rollers_FWD	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Elapsed Time	**Data type**	Time
Start value	T#0ms	**Retain**	False
Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
▼ ///			
Name	Turn Table Timers	**Data type**	TP_TIME
Start value		**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
Name	PT	**Data type**	Time
Start value	T#0ms	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	ET	**Data type**	Time
Start value	T#0ms	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	IN	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Q	**Data type**	Bool
Start value	false	**Retain**	False

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Stopped	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
▼ /			
Name	TT3	**Data type**	"TT Logic"
Start value		**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
▼ //			
Name	Input	**Data type**	
Start value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Auto Switch	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	EStop	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False

Supervision		**Comment**	
Name	Auto Mode Stop PB	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Manual Switch	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Rotated	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal the turntable is Rotated
Name	Home	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal the turntable is Home
Name	Entry_PP	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal a Part Present at the turntable entry
Name	No Mode	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Exit_PP	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal a Part Present at the turntable exit
//			
Name	Output	**Data type**	
Start value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Rollers_FWD	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals the rollers to rotate (AUTO Mode)
Name	Rotate	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals the table to rotate (AUTO Mode)
Name	InOut	**Data type**	
Start value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
//			
Name	Static	**Data type**	
Start value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Dropoff_Rollers_FWD	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Pickup_Rollers_FWD	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Elapsed Time	**Data type**	Time
Start value	T#0ms	**Retain**	False
Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
▼ ///			
Name	Turn Table Timers	**Data type**	TP_TIME
Start value		**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
Name	PT	**Data type**	Time
Start value	T#0ms	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	ET	**Data type**	Time
Start value	T#0ms	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	IN	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Q	**Data type**	Bool
Start value	false	**Retain**	False

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Stopped	**Data type**	Bool
Start value	false	**Retain**	False
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	

PLC_1 [CPU 1516-3 PN/DP] / Program blocks

TT Logic [FB3]

TT Logic Properties			
General			
Name	TT Logic	**Number**	3
Type	FB	**Language**	LAD
Numbering	Automatic		
Information			
Title		**Author**	
Comment		**Family**	
Version	0.1	**User-defined ID**	

Name	Input	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Auto Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Start PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	EStop	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Mode Stop PB	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

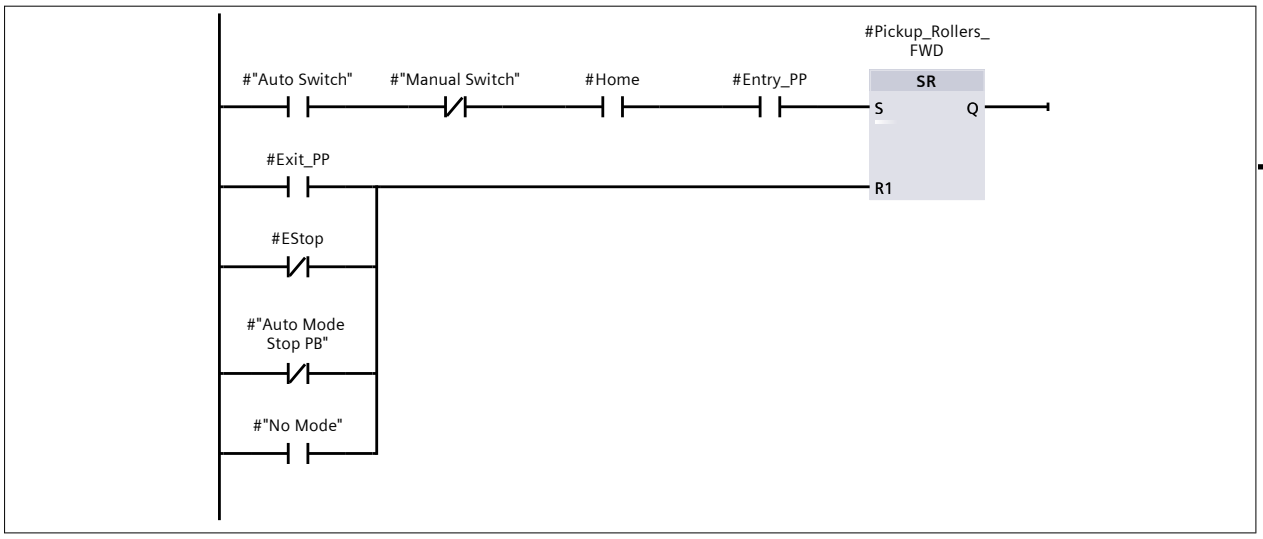
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Manual Switch	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Rotated	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal the turntable is Rotated
Name	Home	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal the turntable is Home
Name	Entry_PP	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal a Part Present at the turntable entry
Name	No Mode	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Exit_PP	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Input signal a Part Present at the turntable exit
▼			
Name	Output	**Data type**	

Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Rollers_FWD	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals the rollers to rotate (AUTO Mode)
Name	Rotate	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	Output signals the table to rotate (AUTO Mode)
Name	InOut	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Static	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Dropoff_Rollers_FWD	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Pickup_Rollers_FWD	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True

Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Elapsed Time	**Data type**	Time
Default value	T#0ms	**Retain**	Non-retain
Accessible from HMI/OPC UA	False	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	False	**Setpoint**	False
Supervision		**Comment**	
▼ /			
Name	Turn Table Timers	**Data type**	TP_TIME
Default value		**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	True
Supervision		**Comment**	
Name	PT	**Data type**	Time
Default value	T#0ms	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	ET	**Data type**	Time
Default value	T#0ms	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	IN	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Q	**Data type**	Bool
Default value	false	**Retain**	Non-retain
Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	False
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Auto Stopped	**Data type**	Bool
Default value	false	**Retain**	Non-retain

Accessible from HMI/OPC UA	True	**Writable from HMI/OPC UA**	True
Visible in HMI engineering	True	**Setpoint**	False
Supervision		**Comment**	
Name	Temp	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	
Name	Constant	**Data type**	
Default value		**Retain**	
Accessible from HMI/OPC UA		**Writable from HMI/OPC UA**	
Visible in HMI engineering		**Setpoint**	
Supervision		**Comment**	

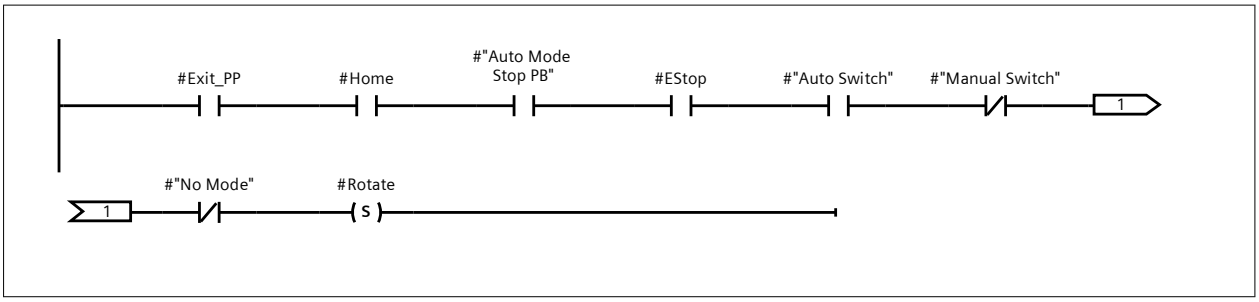
Network 1: Enable FWD Rollers on Turn Tables



Network 2: Rotate Turn Table When Part Hits Exit Sensor

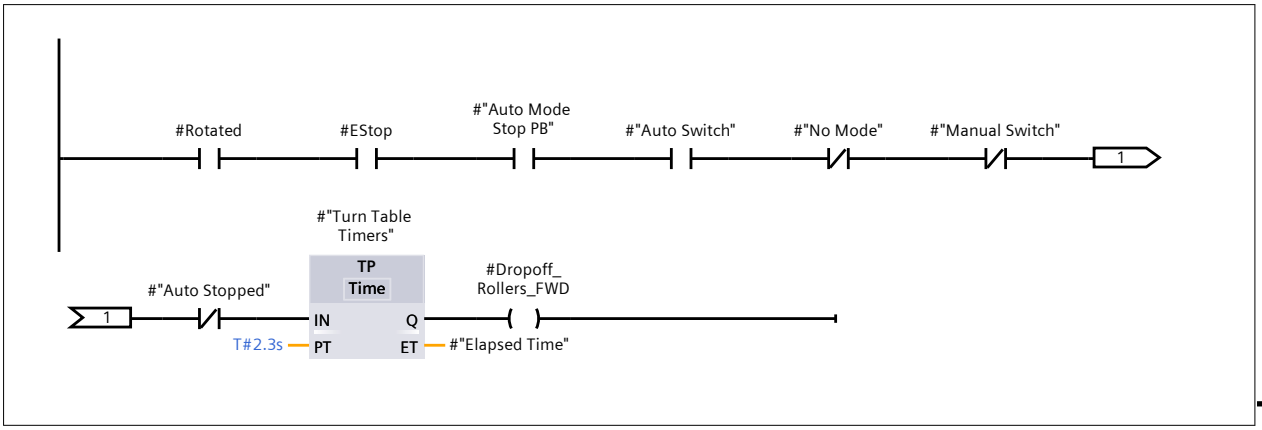
Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 7 - 5

Network 2: Rotate Turn Table When Part Hits Exit Sensor



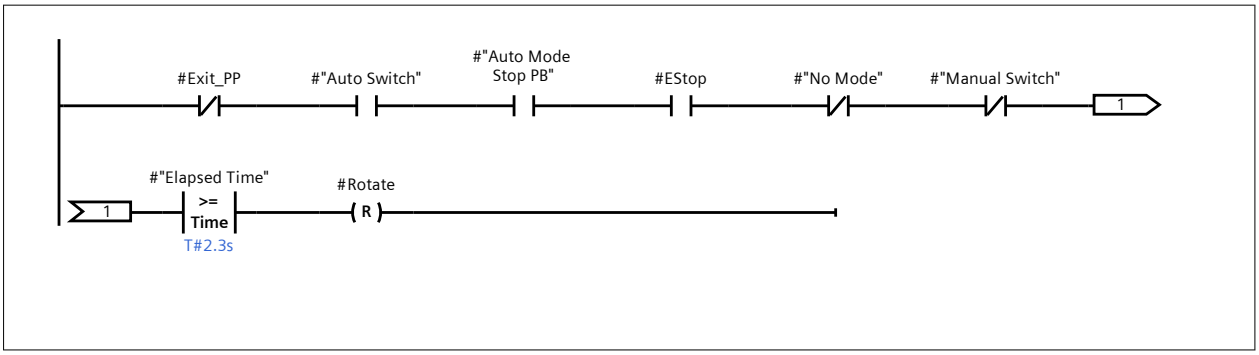
Network 3: Remove Part From Turn Table

Network 3: Remove Part From Turn Table



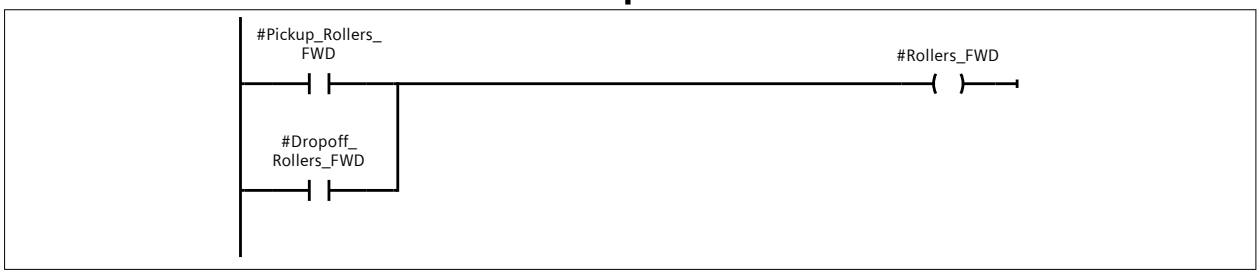
Network 4: Rotate Turn Table Back After Part is Removed

Network 4: Rotate Turn Table Back After Part is Removed

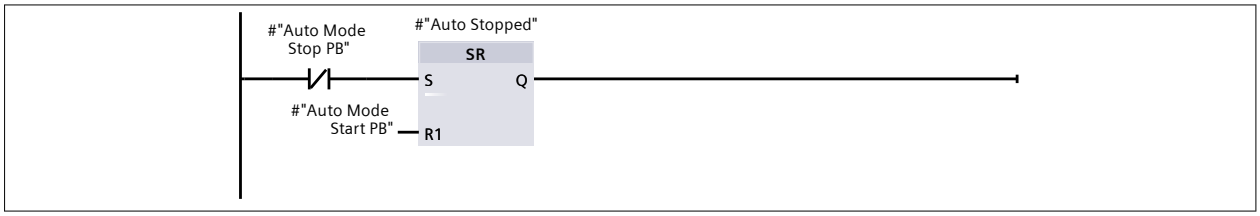


Network 5: Enable Rollers by Utilizing Statics

Owner	Projectname TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 7 - 6



Network 6: Auto Stop Push Button Stopping Functionality



Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 7 - 7

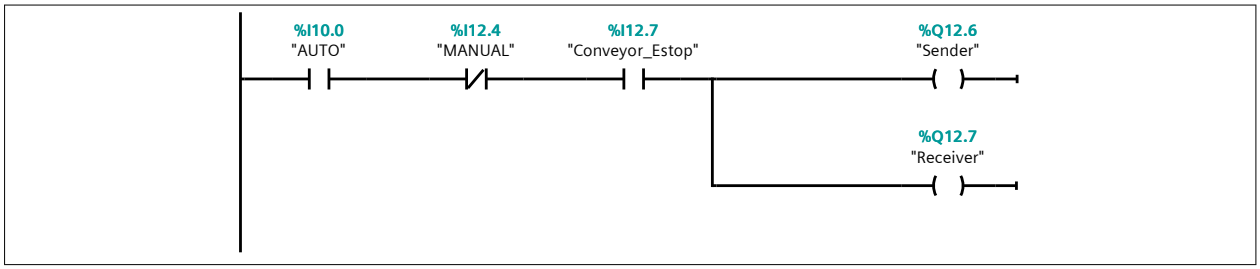
PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Send and Receive [FC1]

Send and Receive Properties			
General			
Name	Send and Receive	**Number**	1
Type	FC	**Language**	LAD
Numbering	Automatic		
Information			
Title		**Author**	
Comment		**Family**	
Version	0.1	**User-defined ID**	

Name	Data type	Default value	Comment
Input			
Output			
InOut			
Temp			
Constant			
▼ Return			
Send and Receive	Void		

Network 1: Send and Receive Parts in Auto Mode



Owner	Project name TrainingModules	Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules	
Operator	Location	
Designed By	Description 1st	
Checked By	Description 2nd	Language en-US
Approved By	1st View	Version / Sheet 8 - 1

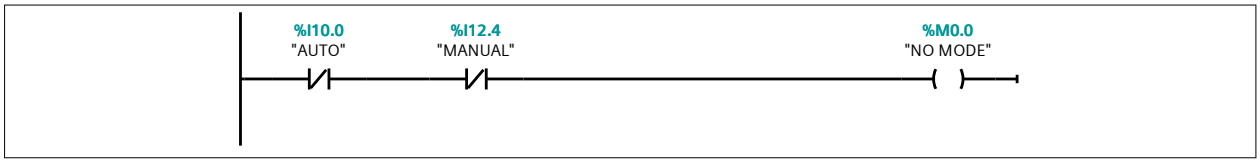
PLC_1 [CPU 1516-3 PN/DP] / Program blocks

No Mode Selected [FC2]

No Mode Selected Properties			
General			
Name	No Mode Selected	**Number**	2
Type	FC	**Language**	LAD
Numbering	Automatic		
Information			
Title		**Author**	
Comment		**Family**	
Version	0.1	**User-defined ID**	

Name	Data type	Default value	Comment
Input			
Output			
InOut			
Temp			
Constant			
▼ Return			
No Mode Selected	Void		

Network 1: Combines both No Modes into a signal No Modes state



Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 9 - 1

PLC_1 [CPU 1516-3 PN/DP]

Technology objects

This folder is empty.

Owner	Project name TrainingModules		Date 6/16/2023
Operator	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 10 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Default tag table [51]

PLC tags

PLC tags									
	Name	Data type	Address	Re-tain	Ac-cessi-ble from HMI/ OPC UA	Writ-able from HMI/ OPC UA	Visi-ble in HMI engi-neer-ing	Supervision	Comment
	TT3_Rotated	Bool	%I12.1	False	True	True	True		Input signal the turnta-ble is Rotated TT3
	TT3_PP_Exit	Bool	%I12.3	False	True	True	True		Input signal a Part Pres-ent at the turntable exit TT3
	CVR2 Contactor FWD	Bool	%Q10.2	False	True	True	True		Activates CVR2 Forward Contactor

Owner	Project name TrainingModules		Date 6/16/2023
Operator	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 11 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Default tag table [51]

User constants

User constants				
	Name	Data type	Value	Comment

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 12 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Control Panel Tags [10]

PLC tags

PLC tags

	Name	Data type	Address	Retain	Accessible from HMI/ OPC UA	Writable from HMI/ OPC UA	Visible in HMI engineering	Supervision	Comment
	AUTO	Bool	%I10.0	False	True	True	True		Auto Switch Enabled
	AUTO Mode Start	Bool	%I10.2	False	True	True	True		Auto Start PB
	AUTO Mode Stop	Bool	%I10.3	False	True	True	True		Auto Stop PB
	Sender	Bool	%Q12.6	False	True	True	True		Parts Sender
	Receiver	Bool	%Q12.7	False	True	True	True		Parts Receiver
	Line_Output	Word	%QW30	False	True	True	True		Parts Counter on CVR1
	MANUAL	Bool	%I12.4	False	True	True	True		Manual Switch Enabled
	Reset_Counts	Bool	%I12.6	False	True	True	True		Reset Part Counter
	Conveyor_Estop	Bool	%I12.7	False	True	True	True		Emergency Stop
	NO MODE	Bool	%M0.0	False	True	True	True		Combines both No Modes into a signal No Modes state

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Control Panel Tags [10]

User constants

User constants				
	Name	Data type	Value	Comment

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 14 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Conveyor Tags [13]

PLC tags

PLC tags

	Name	Data type	Address	Retain	Accessible from HMI/ OPC UA	Writable from HMI/ OPC UA	Visible in HMI engineering	Supervision	Comment
	CVR1_Jog_FWD	Bool	%I10.4	False	True	True	True		Manually Jog Conveyor CVR1 Forwards
	CVR1_Jog_REV	Bool	%I10.5	False	True	True	True		Manually Job Conveyor CVR1 Backwards
	CVR1 Contactor FWD	Bool	%Q10.0	False	True	True	True		Activates CVR1 Forward Contactor
	CVR1 Contactor REV	Bool	%Q10.1	False	True	True	True		Activates CVR1 Backward Contactor
	CVR2 Contactor REV	Bool	%Q10.3	False	True	True	True		Activates CVR2 Backward Contactor
	CVR3 Contactor FWD	Bool	%Q10.4	False	True	True	True		Activates CVR3 Forward Contactor
	CVR3 Contactor REV	Bool	%Q10.5	False	True	True	True		Activates CVR3 Backward Contactor
	CVR2_Jog_FWD	Bool	%I10.6	False	True	True	True		Manually Jog Conveyor CVR2 Forwards
	CVR2_Jog_REV	Bool	%I10.7	False	True	True	True		Manually Job Conveyor CVR2 Backwards
	CVR3_Jog_FWD	Bool	%I11.0	False	True	True	True		Manually Jog Conveyor CVR3 Forwards
	CVR3_Jog_REV	Bool	%I11.1	False	True	True	True		Manually Job Conveyor CVR3 Backwards
	CVR1_Part_Present	Bool	%I11.2	False	True	True	True		CVR1 Part Present
	CVR2_Part_Present	Bool	%I11.3	False	True	True	True		CVR2 Part Present

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Conveyor Tags [13]

User constants

User constants				
	Name	Data type	Value	Comment

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Turn Table Tags [10]

PLC tags

PLC tags

	Name	Data type	Address	Retain	Accessible from HMI/ OPC UA	Writable from HMI/ OPC UA	Visible in HMI engineering	Supervision	Comment
	TT2 Rotate	Bool	%Q10.6	False	True	True	True		Output signals the table to rotate (AUTO Mode) TT2
	TT2 Rollers FWD	Bool	%Q10.7	False	True	True	True		Output signals the rollers to rotate (AUTO Mode) TT2
	TT3 Rotate	Bool	%Q11.0	False	True	True	True		Output signals the table to rotate (AUTO Mode) TT3
	TT3 Rollers FWD	Bool	%Q11.1	False	True	True	True		Output signals the rollers to rotate (AUTO Mode) TT3
	TT2_Home	Bool	%I11.4	False	True	True	True		Input signal the turntable is Home TT2
	TT2_Rotated	Bool	%I11.5	False	True	True	True		Input signal the turntable is Rotated TT2
	TT2_Part_Present	Bool	%I11.6	False	True	True	True		Input signal a Part Present at the turntable entry TT2
	TT2_PP_Exit	Bool	%I11.7	False	True	True	True		Input signal a Part Present at the turntable exit
	TT3_Home	Bool	%I12.0	False	True	True	True		Input signal the turntable is Home TT3
	TT3_Part_Present	Bool	%I12.2	False	True	True	True		Input signal a Part Present at the turntable entry TT3

PLC_1 [CPU 1516-3 PN/DP] / PLC tags / Turn Table Tags [10]

User constants

User constants				
	Name	Data type	Value	Comment

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 18 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC data types

System data types

This folder is empty.

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
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PLC_1 [CPU 1516-3 PN/DP] / Watch and force tables

Force table

Name	Address	Display format	Force value	Comment

Owner	Project name TrainingModules		Date 6/16/2023
Operator	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 20 - 1

PLC_1 [CPU 1516-3 PN/DP] / Watch and force tables

GM Block Transport System

Name	Address	Display format	Modify value	Comment
// Control Panel Specific				
"AUTO"	%I10.0	Bool		
"MANUAL"	%I12.4	Bool		
"AUTO Mode Start"	%I10.2	Bool		
"AUTO Mode Stop"	%I10.3	Bool		
"Conveyor_Estop"	%I12.7	Bool		
"Line_Output"	%QW30	DEC		
"Reset_Counts"	%I12.6	Bool		
"Receiver"	%Q12.7	Bool		
"NO MODE"	%M0.0	Bool		
"Sender"	%Q12.6	Bool		
// Conveyor 1				
"CVR1 Contactor FWD"	%Q10.0	Bool		
"CVR1 Contactor REV"	%Q10.1	Bool		
"CVR1_Jog_FWD"	%I10.4	Bool		
"CVR1_Jog_REV"	%I10.5	Bool		
"CVR1_Part_Present"	%I11.2	Bool		
// Conveyor 2				
"CVR2 Contactor FWD"	%Q10.2	Bool		
"CVR2 Contactor REV"	%Q10.3	Bool		
"CVR2_Jog_FWD"	%I10.6	Bool		
"CVR2_Jog_REV"	%I10.7	Bool		
"CVR2_Part_Present"	%I11.3	Bool		
// Conveyor 3				
"CVR3 Contactor FWD"	%Q10.4	Bool		
"CVR3 Contactor REV"	%Q10.5	Bool		
"CVR3_Jog_FWD"	%I11.0	Bool		
"CVR3_Jog_REV"	%I11.1	Bool		
// Turn Table 2				
"TT2 Rotate"	%Q10.6	Bool		
"TT2_Rotated"	%I11.5	Bool		
"TT2_Home"	%I11.4	Bool		
"TT2_Part_Present"	%I11.6	Bool		
"TT2_PP_Exit"	%I11.7	Bool		
"TT2 Rollers FWD"	%Q10.7	Bool		
// Turn Table 3				
"TT3 Rotate"	%Q11.0	Bool		
"TT2_Rotated"	%I11.5	Bool		
"TT3_Home"	%I12.0	Bool		

Name	Address	Display format	Modify value	Comment
"TT3_Part_Present"	%I12.2	Bool		
"TT3_PP_Exit"	%I12.3	Bool		
"TT3 Rollers FWD"	%Q11.1	Bool		

PLC_1 [CPU 1516-3 PN/DP]

Traces

Name

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 22 - 1

PLC_1 [CPU 1516-3 PN/DP] / Traces

Measurements

This folder is empty.

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
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PLC_1 [CPU 1516-3 PN/DP] / Traces

Combined measurements

Name

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
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PLC_1 [CPU 1516-3 PN/DP] / OPC UA communication

Server interfaces

This folder is empty.

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
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PLC_1 [CPU 1516-3 PN/DP] / OPC UA communication

Client interfaces

This folder is empty.

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
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PLC_1 [CPU 1516-3 PN/DP] / PLC supervisions & alarms

PLC supervisions

This folder is empty.

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 27 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC supervisions & alarms

PLC alarms

PLC alarms
No entries

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 28 - 1

PLC_1 [CPU 1516-3 PN/DP] / PLC supervisions & alarms

System alarms

System alarms	
Name	SDIAG_ALCAT_SUBMODUL_MSG_0002
Type	PLC alarm
ID	1
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_MODUL_MSG_0003
Type	PLC alarm
ID	2
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM

Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_RACK_MSG_0004
Type	PLC alarm
ID	3
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_DEVICE_MSG_0005
Type	PLC alarm
ID	4
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False

Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_IOSYSTEM_MSG_0006
Type	PLC alarm
ID	5
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CPU_OST_MSG_000D
Type	PLC alarm
ID	6
Location	PLC_1
Alarm text	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False

Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CPU_INFO_MSG_000F
Type	PLC alarm
ID	7
Location	PLC_1
Alarm text	CPU info: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CPU_ERR_MSG_0010
Type	PLC alarm
ID	8
Location	PLC_1
Alarm text	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@

Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CPU_MD_MSG_0011
Type	PLC alarm
ID	9
Location	PLC_1
Alarm text	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W %t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W %t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CPU_MR_MSG1_0012
Type	PLC alarm

ID	10
Location	PLC_1
Alarm text	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W %t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W %t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CPU_TMPERR_MSG_0013
Type	PLC alarm
ID	11
Location	PLC_1
Alarm text	Temporary CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	

Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CH_ERR_MSG_0015
Type	PLC alarm
ID	12
Location	PLC_1
Alarm text	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ECH_ERR_MSG_0016
Type	PLC alarm
ID	13
Location	PLC_1
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	

Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CH_MD_MSG_0018
Type	PLC alarm
ID	14
Location	PLC_1
Alarm text	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ECH_MD_MSG_0019
Type	PLC alarm
ID	15
Location	PLC_1
Alarm text	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM

Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CH_MR_MSG_001B
Type	PLC alarm
ID	16
Location	PLC_1
Alarm text	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ECH_MR_MSG_001C
Type	PLC alarm
ID	17
Location	PLC_1
Alarm text	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False

Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_SUB_ERR_MSG_001E
Type	PLC alarm
ID	18
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ESUB_ERR_MSG_001F
Type	PLC alarm
ID	19
Location	PLC_1
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@

Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_SUB_MD_MSG_0021
Type	PLC alarm
ID	20
Location	PLC_1
Alarm text	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ESUB_MD_MSG_0022
Type	PLC alarm
ID	21

Location	PLC_1
Alarm text	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_SUB_MR_MSG_0024
Type	PLC alarm
ID	22
Location	PLC_1
Alarm text	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	

Additional text 9	
Name	SDIAG_ALCAT_ESUB_MR_MSG_0025
Type	PLC alarm
ID	23
Location	PLC_1
Alarm text	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CONFIG_INFO_0028
Type	PLC alarm
ID	24
Location	PLC_1
Alarm text	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	

Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CONFIG_REPORT_0029
Type	PLC alarm
ID	25
Location	PLC_1
Alarm text	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_SECU_EV_MSG_005E
Type	PLC alarm
ID	26
Location	PLC_1
Alarm text	Security event: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	Security
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	

Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_SECU_EV_INFO_005F
Type	PLC alarm
ID	27
Location	PLC_1
Alarm text	Security information: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	Security
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_USER_MSG_0080
Type	PLC alarm
ID	28
Location	PLC_1
Alarm text	User message: @1W%t#2W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0

Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_PLC_MSG_00FF
Type	PLC alarm
ID	29
Location	PLC_1
Alarm text	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W %t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_SUBMODUL_MSG_0102
Type	PLC alarm
ID	30
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics

Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_MODUL_MSG_0103
Type	PLC alarm
ID	31
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_RACK_MSG_0104
Type	PLC alarm
ID	32
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False

Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_DEVICE_MSG_0105
Type	PLC alarm
ID	33
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_IOSYSTEM_MSG_0106
Type	PLC alarm
ID	34
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@

Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CPU_OST_MSG_010D
Type	PLC alarm
ID	35
Location	PLC_1
Alarm text	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CPU_ERR_MSG_0110
Type	PLC alarm
ID	36
Location	PLC_1

Alarm text	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CPU_MD_MSG_0111
Type	PLC alarm
ID	37
Location	PLC_1
Alarm text	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W %t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W %t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	

Name	SDIAG_ALCAT_CPU_MR_MSG1_0112
Type	PLC alarm
ID	38
Location	PLC_1
Alarm text	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W %t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W %t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CH_ERR_MSG_0115
Type	PLC alarm
ID	39
Location	PLC_1
Alarm text	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	

Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ECH_ERR_MSG_0116
Type	PLC alarm
ID	40
Location	PLC_1
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CH_MD_MSG_0118
Type	PLC alarm
ID	41
Location	PLC_1
Alarm text	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0

Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ECH_MD_MSG_0119
Type	PLC alarm
ID	42
Location	PLC_1
Alarm text	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W %t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W %t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CH_MR_MSG_011B
Type	PLC alarm
ID	43
Location	PLC_1
Alarm text	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0

Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ECH_MR_MSG_011C
Type	PLC alarm
ID	44
Location	PLC_1
Alarm text	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_SUB_ERR_MSG_011E
Type	PLC alarm
ID	45
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@

Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ESUB_ERR_MSG_011F
Type	PLC alarm
ID	46
Location	PLC_1
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_SUB_MD_MSG_0121
Type	PLC alarm
ID	47
Location	PLC_1

Alarm text	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ESUB_MD_MSG_0122
Type	PLC alarm
ID	48
Location	PLC_1
Alarm text	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W %t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W %t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	

Name	SDIAG_ALCAT_SUB_MR_MSG_0124
Type	PLC alarm
ID	49
Location	PLC_1
Alarm text	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W %t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_ESUB_MR_MSG_0125
Type	PLC alarm
ID	50
Location	PLC_1
Alarm text	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	

Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_CONFIG_INFO_0128
Type	PLC alarm
ID	51
Location	PLC_1
Alarm text	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	SDIAG_ALCAT_PLC_MSG_01FF
Type	PLC alarm
ID	52
Location	PLC_1
Alarm text	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W %t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	False
Priority	0
Report	False
Created by	System diagnostics
Date created	6/12/2023 7:54 AM
Last change	6/12/2023 7:54 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	

Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	

Owner	Project name TrainingModules		Date 6/16/2023
	Project path C:\Users\IIruoha\Documents\Automation\TrainingModules		
Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 29 - 29

PLC_1 [CPU 1516-3 PN/DP]

PLC alarm text lists

This folder is empty.

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Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
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PLC_1 [CPU 1516-3 PN/DP] / Local modules

PLC_1 [CPU 1516-3 PN/DP]

PLC_1			
General\Project information			
Name	PLC_1	**Author**	Iruoha
Comment		**Rack**	0
Slot	1		
General\Catalog information			
Short designation	CPU 1516-3 PN/DP	**Description**	CPU with display; work memory 1 MB code and 5 MB data; 10 ns bit instruction time; 4-stage protection concept, technology functions: motion control, closed-loop control, counting & measuring; tracing; 1st interface: PROFINET IO controller, supports RT/IRT, performance upgrade PROFINET V2.3, 2 ports, I-device, MRP, MRPD, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, DNS client, OPC UA: server DA, client DA, methods, companion specifications; constant bus cycle time, routing; 2nd interface: PROFINET IO controller, supports RT, I-device, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, DNS client, OPC UA: server DA, client DA, methods, companion specifications; routing; 3rd interface: PROFIBUS DP master, S7 communication, constant bus cycle time, routing; Runtime options, firmware V2.6
Article number	6ES7 516-3AN01-0AB0	**Firmware version**	V2.6
General\Identification & Maintenance			
Plant designation		**Location identifier**	
Installation date	2023-06-12 11:45:26.087	**Additional information**	
General\Checksums			
Text lists	FA 70 E8 75 1D 5A 8E 29	**Software**	E9 7D CF 95 3F 71 4F F9
PROFINET interface [X1]\General			
Name	PROFINET interface_1	**Author**	Iruoha
Comment			
PROFINET interface [X1]\Ethernet addresses\Interface networked with			
Subnet:	Not connected		

Owner	Project name TrainingModules	Date 6/16/2023
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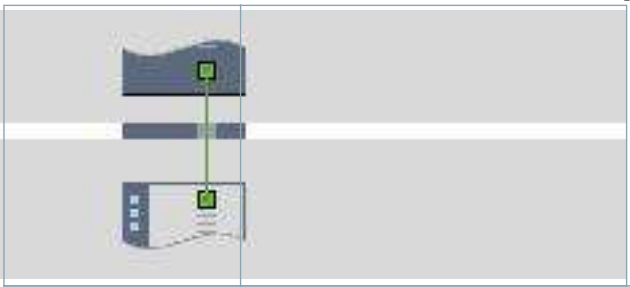
Designed By	Description 1st	
Checked By	Description 2nd	Language en-US
Approved By	1st View	Version / Sheet 31 - 1

PROFINET interface [X1]\Ethernet addresses\IP protocol			
IP configuration	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.profinet interface_1	**Converted name:**	plcxb1.profinetxainterfacexb1036c
Device number:	0		
PROFINET interface [X1]\Time synchronization\NTP mode			
Note	Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].	**Enable time synchronization via NTP server**	False
	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**	10s
PROFINET interface [X1]\Operating mode			
IO controller	True	**IO system**	
Device number	0	**IO device**	False
PROFINET interface [X1]\Advanced options\Interface options			
Call the user program if communication errors occur	False	**Support device replacement without exchangeable medium**	True
Permit overwriting of device names of all assigned IO devices	False	**Limit data infeed into the network**	True
Use IEC V2.2 LLDP mode	False	**Keep-Alive connection monitoring:**	30s
PROFINET interface [X1]\Advanced options\Real time settings\IO communication			
Send clock:	1.000ms		
PROFINET interface [X1]\Advanced options\Real time settings\Synchronization			
RT class:	RT,IRT		
PROFINET interface [X1]\Advanced options\Real time settings\Real time options			
Calculated bandwidth for cyclic IO data:	0.000ms	**Calculated bandwidth for cyclic IO data:**	0.000%
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\General			
Name	Port_1	**Author**	IIruoha
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1 R]	**Medium:**	Copper
Cable name:	---		



PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\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 P2 R]\General			
Name	Port_2	**Author**	IIruoha
Comment			
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_2 [X1 P2 R]	**Medium:**	Copper
Cable name:	---		

PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Activate			
Activate this port for use	True		

Owner	Project name TrainingModules		Date 6/16/2023
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Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
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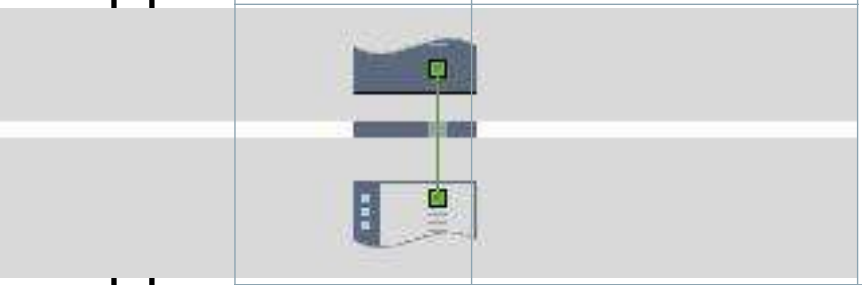
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Boundaries			
End of detection of accessible devices	False	**End of topology discovery**	False
End of the sync domain	False		
PROFINET interface [X1]\Web server access			
Note	The Web server must also be activated in the properties of the PLC.	**Enable Web server using this interface**	False
PROFINET interface [X2]\General			
Name	PROFINET interface_2	**Author**	IIruoha
Comment			
PROFINET interface [X2]\Ethernet addresses\Interface networked with			
Subnet:	Not connected		
PROFINET interface [X2]\Ethernet addresses\IP protocol			
IP configuration	Set IP address in the project	**IP address:**	192.168.1.1
Subnet mask:	255.255.255.0	**Use router**	False
PROFINET interface [X2]\Ethernet addresses\PROFINET			
PROFINET device name is set directly at the device	False	**Generate PROFINET device name automatically**	True
PROFINET device name:	plc_1.profinet interface_2	**Converted name:**	plcxb1.profinetxainterfacexb2022c
Device number:	0		
PROFINET interface [X2]\Time synchronization\NTP mode			
Note	Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].	**Enable time synchronization via NTP server**	False
	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**	10s
PROFINET interface [X2]\Operating mode			
IO controller	True	**IO system**	
Device number	0	**IO device**	False
PROFINET interface [X2]\Advanced options\Interface options			
Call the user program if communication errors occur	False	**Support device replacement without exchangeable medium**	True
Permit overwriting of device names of all assigned IO devices	False	**Limit data infeed into the network**	False

Use IEC V2.2 LLDP mode	False	**Keep-Alive connection monitoring:**	30s
PROFINET interface [X2]\Advanced options\Real time settings\IO communication			
Send clock:	1.000ms		
PROFINET interface [X2]\Advanced options\Real time settings\Real time options			
Calculated bandwidth for cyclic IO data:	0.000ms	**Calculated bandwidth for cyclic IO data:**	0.000%
PROFINET interface [X2]\Advanced options\Port [X2 P1]\General			
Name	Port_1	**Author**	IIruoha
Comment			
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Local port:			
Local port:	PLC_1\PROFINET interface_2 [X2]\Port_1 [X2 P1]	**Medium:**	Copper
Cable name:	---		



PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Partner port:			
	Monitoring of partner port is not possible	**Alternative partners**	False
Partner port:	Any partner		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Activate			
Activate this port for use	True		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Connection			
Transmission rate / duplex:	Automatic	**Monitor**	False
Enable autonegotiation	True		
PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Boundaries			
End of detection of accessible devices	False	**End of topology discovery**	False
End of the sync domain	False		
PROFINET interface [X2]\Web server access			
Note	The Web server must also be activated in the properties of the PLC.	**Enable Web server using this interface**	False
DP interface [X3]\General			
Name	DP interface_1	**Author**	IIruoha
Comment			
DP interface [X3]\PROFIBUS address\Interface networked with			
Subnet:	Not networked		

DP interface [X3]\PROFIBUS address\Parameters			
Address:	2	**Highest address:**	
Transmission speed:			
DP interface [X3]\Operating mode			
Operating mode	DP master	**DP master system:**	Not created
DP interface [X3]\Time synchronization\SIMATIC mode			
Synchronization type	None	**Time interval**	None

DP interface [X3]\SYNC/FREEZE			
Group	**SYNC**	**FREEZE**	**Comment**
1	True	True	
2	True	True	
3	True	True	
4	True	True	
5	True	True	
6	True	True	
7	True	True	
8	True	True	

Startup			
Startup after POWER ON	Warm restart - Operating mode before POWER OFF	**Comparison preset to actual configuration**	Startup CPU even if mismatch
Configuration time	60000ms		
Cycle			
Maximum cycle time	150ms		
Enable minimum cycle time for cyclic OBs	True	**Minimum cycle time**	1ms
Communication load			
Cycle load due to communication	50%		
System and clock memory\System memory bits			
Enable the use of system memory byte	False	**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	False	**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**	
SIMATIC Memory Card\Diagnostics			
Aging of the SIMATIC memory card	False	**Threshold value**	80%

System diagnostics\General			
Activate system diagnostics for this device	True	**Report network faults as maintenance instead of fault**	False
PLC alarms\General			
Central alarm management in the PLC	True		
Web server\General			
Activate web server on this module	False	**Permit access only with HTTPS**	True
Web server\Automatic update			
Enable automatic update	True	**Update interval**	0s

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
PLC_1	PROFINET interface_2	False

DNS configuration			
No DNS server address is configured.			
Display\General\Display standby mode			
Time to standby mode	30 minutes		
Display\General\Energy saving mode			
Time to energy saving mode	15 minutes		
Display\General\Display language			
Default language on display	English		
Display\Automatic update			
Time to update	5 seconds		
Display\Password\Display protection			
Enable write access	True	**Enable display protection**	False
Display\User-defined logo			
User logo activated	False	**Adapt logo**	False
Resolution	240x260	**Company logo**	---

Owner	Project name TrainingModules		Date 6/16/2023
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Operator	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 31 - 7

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)	Japanese
English (United States)	Chinese (simplified)
English (United States)	Korean
English (United States)	Russian
English (United States)	Turkish
English (United States)	Portuguese (Brazil)

Time of day\Local time			
Time zone	(UTC) Dublin, Edinburgh, Lisbon, London		

Time of day\Daylight saving time			
Activate daylight saving time	True	**Difference between standard and day-light saving time**	60mins

Time of day\Daylight saving time\Start of daylight saving time			
Selection of the week	Last	**Selection of the weekday**	Sunday
of	March	**at**	01:00 a.m.

Time of day\Daylight saving time\Start of standard time			
Selection of the week	Last	**Selection of the weekday**	Sunday
of	October	**at**	02:00 a.m.

Protection	
Level of protection	Full access (no protection)

Protection\Connection mechanisms	
Permit access with PUT/GET communi-cation from remote partner	True

Protection\Security event			
Summarize security events in case of high message vol-ume	True	**Length of an inter-val**	20
Unit	seconds		

OPC UA\Accessibility of the server	
Activate OPC UA server	False

OPC UA\Accessibility of the client	
Activate OPC UA cli-ent	False

System power supply\General	
General	Connection to supply voltage L+

Owner	Project name TrainingModules		Date 6/16/2023
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System power supply\\Power segment overview		
Module	**Slot**	**Supply/consumption**
PLC_1	1	12.00W
	Summary	12.00W

Configuration control\Configuration control for central configuration	
Allow reconfiguration of device via the user program	False

Connection resources\				
	Station resources - Reserved - Maximum	**Station resources - Reserved - Configured**	**Station resources - Dynamic - Configured**	**Module resources - PLC_1 [CPU 1516-3 PN/DP] - Configured**
Maximum number of resources:		10	118	128
	Maximum	Configured	Configured	Configured
PG communication:	4	-	-	-
HMI communication:	4	0	0	0
S7 communication:	0	-	0	0
Open user communication:	0	-	0	0
Web communication:	2	-	-	-
Other communication:	-	-	0	0
Total resources used:		0	0	0
Available resources:		10	118	128

Overview of addresses\Overview of addresses\Overview of addresses			
Inputs	True	**Outputs**	True
Address gaps	False	**Slot**	True

Runtime licenses\OPC UA\Runtime licenses			
Type of required license	None	**Type of purchased license**	No license

Runtime licenses\ProDiag\Supervisions	
Number of used supervisions	0

Runtime licenses\ProDiag\Runtime licenses			
Number of required licenses	None (<= 25 supervisions)	**Used ProDiag licenses**	No license

Runtime licenses\Energy Suite\Energy objects	
Number of configured energy objects	0

Runtime licenses\Energy Suite\Runtime licenses	
Total number of licensed energy objects	0

Runtime licenses\Energy Suite\Runtime licenses\Number of purchased licenses			
License type '5 energy objects'	No license	**License type '10 energy objects'**	No license