

PLC_1 [CPU 1516-3 PN/DP]

PLC_1

General\Project information

Name	PLC_1	Author	Ilruoha
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
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PROFINET interface [X1]\General

Name	PROFINET interface_1	Author	Ilruoha
Comment			

PROFINET interface [X1]\Ethernet addresses\Interface networked with



Subnet:	Not connected		
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PROFINET interface [X1]\Ethernet addresses\IP protocol


IP configuration	Set IP address in the project	IP address:	192.168.0.1
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Owner	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 1 - 1

1		2		3		4			
A	Subnet mask:		255.255.255.0		Use router		False		
	PROFINET interface [X1]\Ethernet addresses\PROFINET								
B	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								
B	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				
C	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								
D	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								
E	Name		Port_1		Author		llruoha		
	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:		---						
F	Owner		Projectname TrainingModules				Date6/16/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules						
			Location						
	Designed By		Description 1st						
	Checked By		Description 2nd				Language en-US		
	Approved By		1st View				Version		Sheet 1 - 2

1		2		3		4	
A							A
							
B	PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Partner port:						
		Monitoring of partner port is not possible	Alternative partners	False			
C	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		
	PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Boundaries						
	End of detection of accessible devices	False		End of topology discovery	False		
	PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\General						
	Name	Port_2		Author	Ilruoha		
	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:	---					
							D
E	PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Partner port:						
		Monitoring of partner port is not possible	Alternative partners	False			
	PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Activate						
	Activate this port for use	True					
F	Owner		Projectname TrainingModules			Date6/16/2023	
	Operator		Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules				
			Location				
	Designed By		Description 1st				
	Checked By		Description 2nd			Language en-US	
	Approved By		1st View			Version	
					Sheet 1 - 3		

	1	2	3	4																							
A	<div>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection</div> <table border="1"> <tr> <td>Transmission rate / duplex:</td> <td>Automatic</td> <td>Monitor</td> <td>False</td> </tr> <tr> <td>Enable autonegotiation</td> <td>True</td> <td></td> <td></td> </tr> </table>				Transmission rate / duplex:	Automatic	Monitor	False	Enable autonegotiation	True																	
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B	<div>PROFINET interface [X1]\Web server access</div> <table border="1"> <tr> <td>Note</td> <td>The Web server must also be activated in the properties of the PLC.</td> <td>Enable Web server using this interface</td> <td>False</td> </tr> </table>				Note	The Web server must also be activated in the properties of the PLC.	Enable Web server using this interface	False																			
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C	<div>PROFINET interface [X2]\General</div> <table border="1"> <tr> <td>Name</td> <td>PROFINET interface_2</td> <td>Author</td> <td>Ilruoha</td> </tr> <tr> <td>Comment</td> <td></td> <td></td> <td></td> </tr> </table>				Name	PROFINET interface_2	Author	Ilruoha	Comment																		
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C	<div>PROFINET interface [X2]\Ethernet addresses\Interface networked with</div> <table border="1"> <tr> <td>Subnet:</td> <td>Not connected</td> <td></td> <td></td> </tr> </table>				Subnet:	Not connected																					
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C	<div>PROFINET interface [X2]\Ethernet addresses\IP protocol</div> <table border="1"> <tr> <td>IP configuration</td> <td>Set IP address in the project</td> <td>IP address:</td> <td>192.168.1.1</td> </tr> <tr> <td>Subnet mask:</td> <td>255.255.255.0</td> <td>Use router</td> <td>False</td> </tr> </table>				IP configuration	Set IP address in the project	IP address:	192.168.1.1	Subnet mask:	255.255.255.0	Use router	False															
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	PROFINET interface [X2]\Advanced options\Port [X2 P1]\General																									
	Name	Port_1	Author	Ilruoha																						
B	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																								
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D	Enable autonegotiation	True																								
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	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	Ilruoha																						
E	Comment																									
	DP interface [X3]\PROFIBUS address\Interface networked with																									
	Subnet:	Not networked																								
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	1	2	3	4																																				
A	<div>DP interface [X3]\PROFIBUS address\Parameters</div> <div> <div>Address:2</div> <div>Highest address:</div> </div> <div>Transmission speed:</div>																																							
B	<div>DP interface [X3]\Operating mode\</div> <div> <div>Operating modeDP master</div> <div>DP master system:Not created</div> </div>																																							
	<div>DP interface [X3]\Time synchronization\SIMATIC mode</div> <div> <div>Synchronization typeNone</div> <div>Time intervalNone</div> </div>																																							
	<div>DP interface [X3]\SYNC/FREEZE\</div> <table border="1"> <thead> <tr> <th>Group</th> <th>SYNC</th> <th>FREEZE</th> <th>Comment</th> </tr> </thead> <tbody> <tr><td>1</td><td>True</td><td>True</td><td></td></tr> <tr><td>2</td><td>True</td><td>True</td><td></td></tr> <tr><td>3</td><td>True</td><td>True</td><td></td></tr> <tr><td>4</td><td>True</td><td>True</td><td></td></tr> <tr><td>5</td><td>True</td><td>True</td><td></td></tr> <tr><td>6</td><td>True</td><td>True</td><td></td></tr> <tr><td>7</td><td>True</td><td>True</td><td></td></tr> <tr><td>8</td><td>True</td><td>True</td><td></td></tr> </tbody> </table>				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	
Group	SYNC	FREEZE	Comment																																					
1	True	True																																						
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6	True	True																																						
7	True	True																																						
8	True	True																																						
C	<div>Startup</div> <div> <div>Startup after POWER ONWarm restart - Operating mode before POWER OFF</div> <div>Comparison preset to actual configurationStartup CPU even if mismatch</div> </div> <div>Configuration time60000ms</div>																																							
	<div>Cycle</div> <div> <div>Maximum cycle time150ms</div> <div> <div>Enable minimum cycle time for cyclic OBsTrue</div> <div>Minimum cycle time1ms</div> </div> </div>																																							
	<div>Communication load</div> <div> <div>Cycle load due to communication50%</div> </div>																																							
D	<div>System and clock memory\System memory bits</div> <div> <div> <div>Enable the use of system memory byteFalse</div> <div>Address of system memory byte (MBx)1</div> </div> <div> <div>First cycle</div> <div>Diagnostic status changed</div> </div> <div> <div>Always 1 (high)</div> <div>Always 0 (low)</div> </div> </div>																																							
	<div>System and clock memory\Clock memory bits</div> <div> <div> <div>Enable the use of clock memory byteFalse</div> <div>Address of clock memory byte (MBx)0</div> </div> <div> <div>10 Hz clock</div> <div>5 Hz clock</div> </div> <div> <div>2.5 Hz clock</div> <div>2 Hz clock</div> </div> <div> <div>1.25 Hz clock</div> <div>1 Hz clock</div> </div> <div> <div>0.625 Hz clock</div> <div>0.5 Hz clock</div> </div> </div>																																							
E	<div>SIMATIC Memory Card\Diagnostics</div> <div> <div>Aging of the SIMATIC memory cardFalse</div> <div>Threshold value80%</div> </div>																																							
F	<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules</td> <td>Date6/16/2023</td> </tr> <tr> <td colspan="3">Project path C:\Users\llruoha\Documents\Automation\TrainingModules</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Location</td> </tr> <tr> <td colspan="3">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td>Language en-US</td> </tr> <tr> <td>Checked By</td> <td>1st View</td> <td>Version</td> <td>Sheet 1 - 6</td> </tr> </table>				Owner	Projectname TrainingModules		Date6/16/2023	Project path C:\Users\llruoha\Documents\Automation\TrainingModules			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version	Sheet 1 - 6														
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A	<div>System diagnostics\General</div> <div> <div>Activate system diagnostics for this device</div> <div>True</div> <div>Report network faults as maintenance instead of fault</div> <div>False</div> </div>																													
B	<div>PLC alarms\General</div> <div>Central alarm management in the PLC</div> <div>True</div>																													
	<div>Web server\General</div> <div> <div>Activate web server on this module</div> <div>False</div> <div>Permit access only with HTTPS</div> <div>True</div> </div>																													
	<div>Web server\Automatic update</div> <div> <div>Enable automatic update</div> <div>True</div> <div>Update interval</div> <div>0s</div> </div>																													
	<div>Web server\User management</div> <div> <div>User name</div> <div>Everybody</div> <div>User rights</div> </div>																													
	<div>Web server\User-defined web pages</div> <div> <div>Application name</div> <div>HTML source path</div> <div>Default HTML page</div> <div>Files with dynamic content</div> <div>Web DB number</div> <div>Fragment DB number</div> </div>																													
C	<div>Web server\Overview of interfaces</div> <div> <div>Device</div> <div>Interface</div> <div>Enabled web server access</div> </div>																													
	<div>PLC_1</div> <div>PROFINET interface_1</div> <div>False</div>																													
	<div>PLC_1</div> <div>PROFINET interface_2</div> <div>False</div>																													
	<div>DNS configuration</div> <div>No DNS server address is configured.</div>																													
	<div>Display\General\Display standby mode</div> <div> <div>Time to standby mode</div> <div>30 minutes</div> </div>																													
D	<div>Display\General\Energy saving mode</div> <div> <div>Time to energy saving mode</div> <div>15 minutes</div> </div>																													
	<div>Display\General\Display language</div> <div> <div>Default language on display</div> <div>English</div> </div>																													
	<div>Display\Automatic update</div> <div> <div>Time to update</div> <div>5 seconds</div> </div>																													
	<div>Display>Password\Display protection</div> <div> <div>Enable write access</div> <div>True</div> <div>Enable display protection</div> <div>False</div> </div>																													
	<div>Display\User-defined logo\</div> <div> <div>User logo activated</div> <div>False</div> <div>Adapt logo</div> <div>False</div> </div>																													
E	<div>Resolution</div> <div>240x260</div> <div>Company logo</div> <div>---</div>																													
F	<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules</td> <td>Date6/16/2023</td> </tr> <tr> <td colspan="3">Project path C:\Users\llruoha\Documents\Automation\TrainingModules</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Location</td> </tr> <tr> <td colspan="3">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td>Language en-US</td> </tr> <tr> <td>Checked By</td> <td>1st View</td> <td>Version</td> <td>Sheet 1 - 7</td> </tr> <tr> <td>Approved By</td> <td colspan="3"></td> </tr> </table>				Owner	Projectname TrainingModules		Date6/16/2023	Project path C:\Users\llruoha\Documents\Automation\TrainingModules			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version	Sheet 1 - 7	Approved By			
Owner	Projectname TrainingModules		Date6/16/2023																											
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules																													
Operator	Location																													
	Description 1st																													
Designed By	Description 2nd		Language en-US																											
Checked By	1st View	Version	Sheet 1 - 7																											
Approved By																														

	1	2	3	4
A				
B	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)	
	C	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 daylight saving time	60mins
Time of day\Daylight saving time\Start of daylight saving time				
Selection of the week of		Last	Selection of the weekday at	Sunday
		March		01:00 a.m.
Time of day\Daylight saving time\Start of standard time				
Selection of the week of		Last	Selection of the weekday at	Sunday
		October		02:00 a.m.
D	Protection			
	Level of protection	Full access (no protection)		
	Protection\Connection mechanisms			
	Permit access with PUT/GET communication from remote partner	True		
	Protection\Security event			
	Summarize security events in case of high message volume	True	Length of an interval	20
	Unit	seconds		
	OPC UA\Accessibility of the server			
	Activate OPC UA server	False		
	OPC UA\Accessibility of the client			
E	Activate OPC UA client	False		
	System power supply\General			
	General	Connection to supply voltage L+		
F	Owner		Projectname TrainingModules	
			Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules	
			Location	
	Designed By		Description 1st	
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Approved By		1st View		
		Language en-US		
		Version		
		Sheet 1 - 8		

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
---------------------------------	------------	----------------------------------	------------

Owner	Projectname TrainingModules	Date6/16/2023
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Designed By	Location	
Checked By	Description 1st	
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1

2

3

4

A

A

PLC_1 [CPU 1516-3 PN/DP]

Software units

This folder is empty.

B

B

C

C

D

D

E

E

F

F

Owner	Projectname TrainingModules	Date6/16/2023	
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
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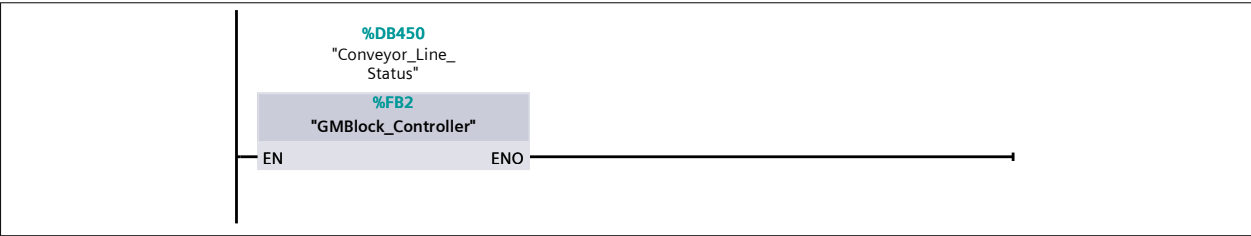
PLC_1 [CPU 1516-3 PN/DP] / Program blocks

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



Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\Iiruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
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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

Owner	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
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	1	2	3	4
A				
B	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name	Manual Switch	Data type	Bool
C	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
D	Supervision		Comment	
	Name	Jog FWD PB	Data type	Bool
	Default value	false	Retain	Non-retain
E	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
F	Name	Part Present	Data type	Bool
	Default value	false	Retain	Non-retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
A	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name	Reset Part Count	Data type	Bool
B	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
C	Supervision		Comment	
	Name	Turn Table Homed	Data type	Bool
	Default value	false	Retain	Non-retain
D	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
E	Name	Part Loaded	Data type	Bool
	Default value	false	Retain	Non-retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
F	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

Owner	Projectname TrainingModules		Date6/16/2023
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Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
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	1	2	3	4	
A					
B	Visible in HMI engineering Supervision	True	Setpoint	False	
	Name	Jog REV PB	Comment		
	Default value	false	Data type	Bool	
	Accessible from HMI/OPC UA	True	Retain	Non-retain	
	Visible in HMI engineering Supervision	True	Writable from HMI/OPC UA	True	
			Setpoint	False	
			Comment		
	▼				
	Name	Output	Data type		
	Default value		Retain		
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA		
	C	Visible in HMI engineering Supervision		Setpoint	
Name		Contactor Reverse	Comment		
Default value		false	Data type	Bool	
Accessible from HMI/OPC UA		True	Retain	Non-retain	
Visible in HMI engineering Supervision		True	Writable from HMI/OPC UA	True	
			Setpoint	False	
			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	
D		Visible in HMI engineering Supervision	True	Setpoint	False
				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 Supervision	True	Setpoint	False	
			Comment		
	Name	InOut	Data type		
	Default value		Retain		
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA		
	E	Visible in HMI engineering Supervision		Setpoint	
				Comment	
F	Owner		Projectname TrainingModules		
			Date6/16/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
			Location		
	Designed By		Description 1st		
	Checked By		Description 2nd		
			Language en-US		
	Approved By		1st View		
		Version			
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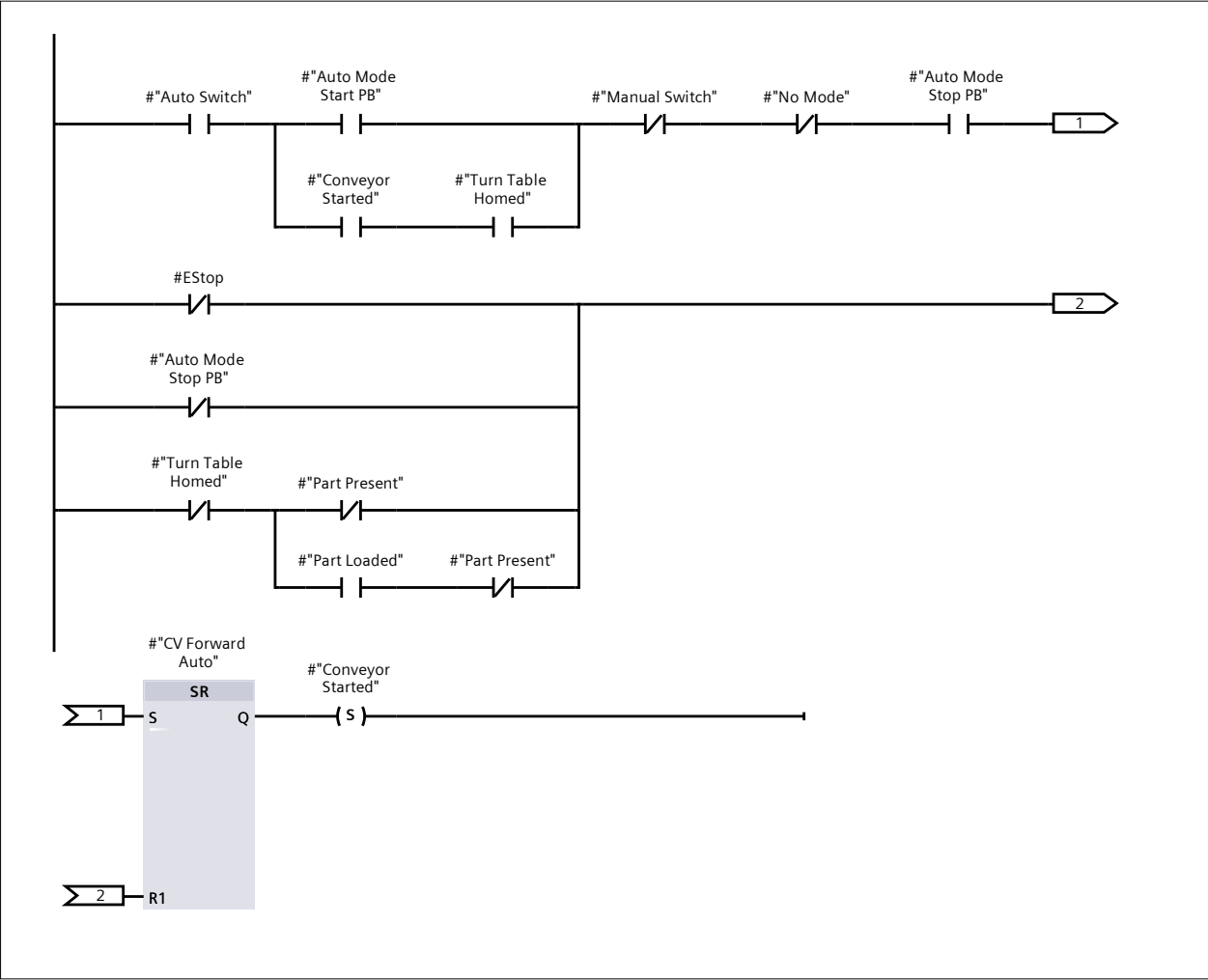
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A				
B	<div>▼</div>			
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	Default value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
	Supervision		Comment	
	Name	CV Forward Manual	Data type	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
C	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	
	<div>▼ /</div>			
	Name	Part Counter	Data type	CTU_INT
	Default value		Retain	Retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
D	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
E	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
	F	Owner		Projectname TrainingModules
Operator		Date6/16/2023		
		Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
		Location		
Designed By		Description 1st		
Checked By		Description 2nd		
Approved By		1st View		
		Language en-US		
		Version		
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	1	2	3	4	
A					A
B	Visible in HMI engineering	True	Setpoint	False	B
	Supervision		Comment		
	Name	LD	Data type	Bool	
C	Default value	false	Retain	Retain	C
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
	Visible in HMI engineering	True	Setpoint	False	
D	Supervision		Comment		D
	Name	QU	Data type	Bool	
	Default value	false	Retain	Retain	
E	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	E
	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
F	Name	QD	Data type	Bool	F
	Default value	false	Retain	Retain	
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
G	Visible in HMI engineering	True	Setpoint	False	G
	Supervision		Comment		
	Name	PV	Data type	Int	
H	Default value	0	Retain	Retain	H
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
	Visible in HMI engineering	True	Setpoint	False	
I	Supervision		Comment		I
	Name	CV	Data type	Int	
	Default value	0	Retain	Retain	
J	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	J
	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
K	Name	Conveyor Started	Data type	Bool	K
	Default value	false	Retain	Non-retain	
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
L	Visible in HMI engineering	True	Setpoint	False	L
	Supervision		Comment		
	Name	Temp	Data type		
M	Default value		Retain		M
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA		
Owner		Projectname TrainingModules		Date6/16/2023	
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
		Location			
Designed By		Description 1st			
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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

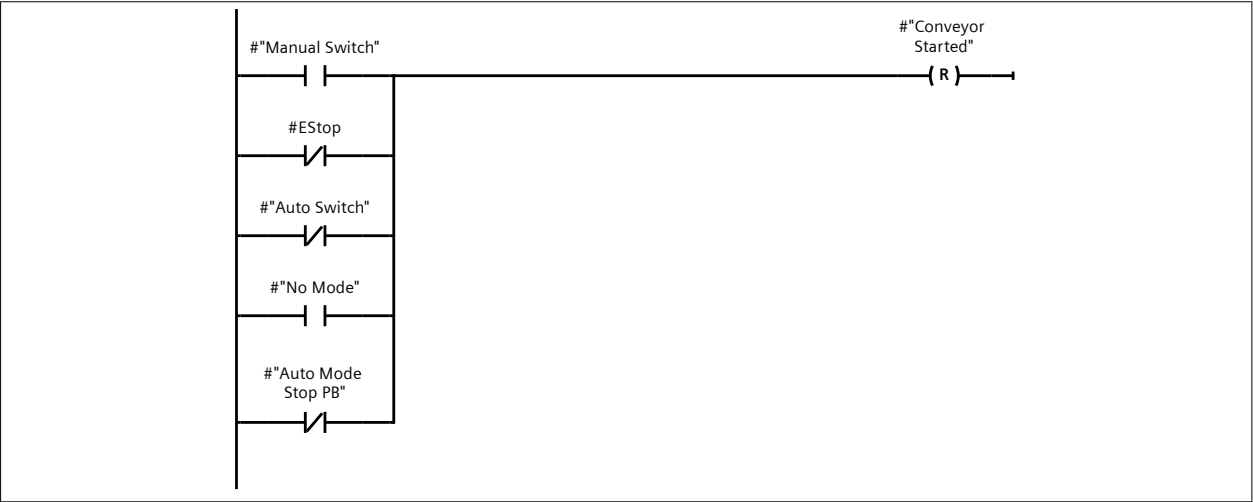


Owner	Projectname	TrainingModules	Date	6/16/2023
Operator	Project path	C:\Users\llruoha\Documents\Automation\TrainingModules		
Designed By	Location			
Checked By	Description 1st			
Approved By	Description 2nd	Language	en-US	
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1234

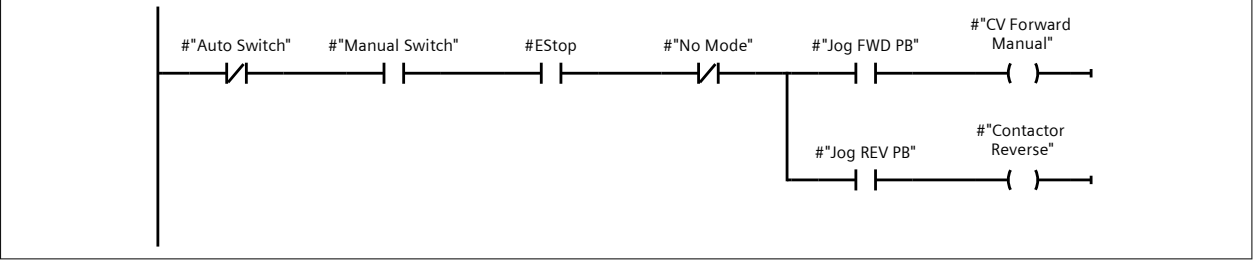
A

Network 2: Reset the Conveyor Started Condition



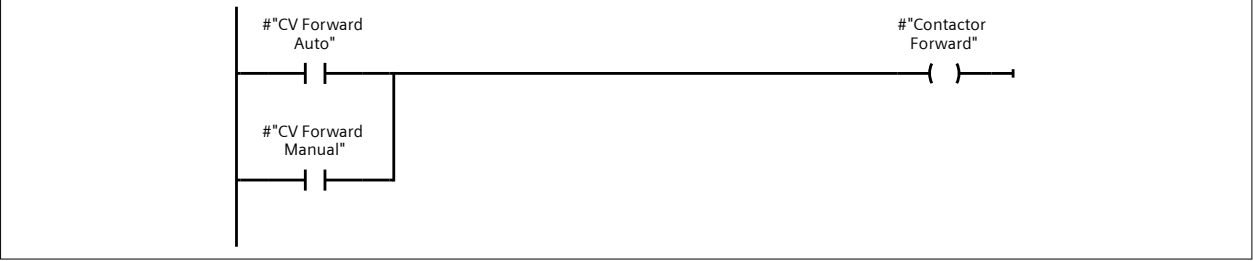
C

Network 3: Conveyor Manual Jog Forward/Reverse



D

Network 4: Enable Conveyor Forward Movement

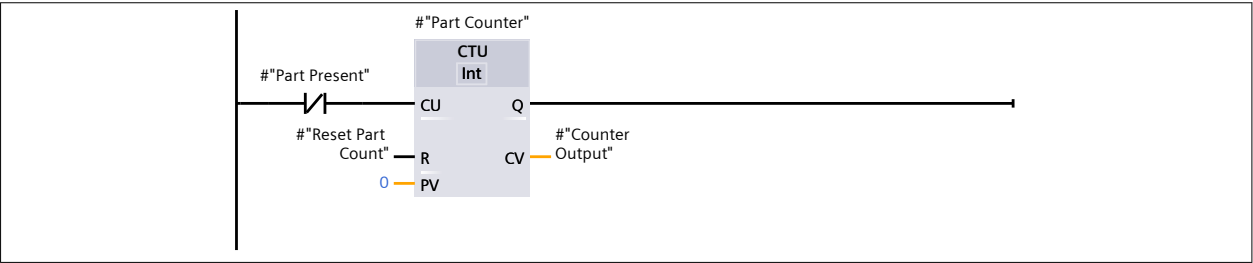


E

Network 5: Part Counter with Reset

Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
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Approved By			

F



Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 4 - 8
Approved By			

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	
Default value		Retain	
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	

▼ /			
Name	CVR1	Data type	"CVR Logic"
Default value		Retain	

Owner	Projectname	TrainingModules	Date	6/16/2023
Operator	Project path	C:\Users\llruoha\Documents\Automation\TrainingModules		
Designed By	Location			
Checked By	Description 1st			
Approved By	Description 2nd	Language	en-US	
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	1	2	3	4
A				
B	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	
	C	Name	Auto Switch	Data type
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
D		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
	E	Visible in HMI engineering	True	Setpoint
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
F		Owner		Projectname TrainingModules Date6/16/2023
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules	
			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd Language en-US	
	Approved By		1st View Version Sheet 5 - 2	

	1	2	3	4			
A					A		
B	Default value	false	Retain	Non-retain	B		
	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			
	C	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA		True	C
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			
D		Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	D	
		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			
	E	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True		E
		Visible in HMI engineering	True	Setpoint	False		
Supervision			Comment				
▼ //							
F	Owner	Projectname TrainingModules		Date6/16/2023	F		
	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
		Location					
	Designed By	Description 1st					
	Checked By	Description 2nd	Language en-US				
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1		2		3		4	
A	Name	Output	Data type				
	Default value		Retain				
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	Visible in HMI engineering		Setpoint				
	Supervision		Comment				
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	Supervision		Comment				
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	Default value		Retain				
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	Visible in HMI engineering		Setpoint				
	Supervision		Comment				
F	▼ //						
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	Default value		Retain				
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	Visible in HMI engineering		Setpoint				
F	Supervision		Comment				
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Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
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Designed By		Description 1st					
Checked By		Description 2nd				Language en-US	
Approved By		1st View			Version		Sheet 5 - 4

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	Visible in HMI engineering	False	Setpoint	False				
	Supervision		Comment					
	▼ ///							
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		Supervision		Comment				
Name		QU	Data type	Bool				
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E								
	F							

Owner	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 5 - 5

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	D	▼ /				D	
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Supervision			Comment				
▼ //							
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Visible in HMI engineering			Setpoint				
E							E
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Approved By		1st View					
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	Visible in HMI engineering	True	Setpoint	False	
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Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
Designed By		Location			
Checked By		Description 1st			
Approved By		Description 2nd		Language en-US	
		1st View		Version	
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Supervision		Comment		
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Default value		false	Retain	Non-retain
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Operator	Location		
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Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 5 - 8
Approved By			

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Owner		Projectname TrainingModules			Date6/16/2023			
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules						
		Location						
Designed By		Description 1st						
Checked By		Description 2nd			Language en-US			
Approved By		1st View			Version		Sheet 5 - 12	

1		2		3		4	
A	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True			
	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
B	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			
C	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				
D	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			
E	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				
F	Owner		Projectname TrainingModules		Date6/16/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules				
			Location				
	Designed By		Description 1st				
Checked By		Description 2nd		Language en-US			
Approved By		1st View		Version			
				Sheet 5 - 13			

1		2		3		4	
A	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			
B	Supervision			Comment			
	Name	InOut	Data type				
	Default value		Retain				
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA				
	Visible in HMI engineering		Setpoint				
C	Supervision			Comment			
	▼ //						
	Name	Static	Data type				
	Default value		Retain				
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA				
D	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			
E	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			
F	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			
Owner		Projectname TrainingModules			Date6/16/2023		
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
		Location					
Designed By		Description 1st					
Checked By		Description 2nd			Language en-US		
Approved By		1st View			Version		Sheet 5 - 14

1		2		3		4		
A								A
B	Accessible from HMI/OPC UA	True		Writable from HMI/OPC UA	True			B
	Visible in HMI engineering	True		Setpoint	False			
	Supervision			Comment				
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	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			
C	Accessible from HMI/OPC UA	True		Writable from HMI/OPC UA	True			C
	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			
D	Accessible from HMI/OPC UA	True		Writable from HMI/OPC UA	True			D
	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			
E	Accessible from HMI/OPC UA	True		Writable from HMI/OPC UA	True			E
	Visible in HMI engineering	True		Setpoint	False			
	Supervision			Comment				
	Name	CV		Data type	Int			
	Default value	0		Retain	Retain			
	Owner		Projectname TrainingModules			Date6/16/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
			Location					
	Designed By		Description 1st					
	Checked By		Description 2nd			Language en-US		
Approved By		1st View			Version			
					Sheet 5 - 15			

	1	2	3	4																						
A																										
B	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																							
C	▼ //																									
	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																							
D	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	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	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																							
E	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	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	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																							
F	<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules</td> <td>Date6/16/2023</td> </tr> <tr> <td colspan="3">Project path C:\Users\llruoha\Documents\Automation\TrainingModules</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Location</td> </tr> <tr> <td colspan="3">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td>Language en-US</td> </tr> <tr> <td>Checked By</td> <td>1st View</td> <td>Version</td> <td>Sheet 5 - 16</td> </tr> </table>				Owner	Projectname TrainingModules		Date6/16/2023	Project path C:\Users\llruoha\Documents\Automation\TrainingModules			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version	Sheet 5 - 16
	Owner	Projectname TrainingModules		Date6/16/2023																						
		Project path C:\Users\llruoha\Documents\Automation\TrainingModules																								
	Operator	Location																								
		Description 1st																								
	Designed By	Description 2nd		Language en-US																						
	Checked By	1st View	Version	Sheet 5 - 16																						

	1	2	3	4	
A					
B	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		
C	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		
D	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	
	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	
	E	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
F		Owner		Projectname TrainingModules Date6/16/2023	
		Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules	
				Location	
		Designed By		Description 1st	
		Checked By		Description 2nd Language en-US	
		Approved By		1st View Version Sheet 5 - 17	

1		2		3		4	
A	Visible in HMI engineering Supervision	True	Setpoint	False			
			Comment	Input signal a Part Present at the turntable exit			
B	▼ //						
	Name	Output	Data type				
	Default value		Retain				
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA				
	Visible in HMI engineering Supervision		Setpoint				
	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 Supervision	True	Setpoint	False			
	Comment	Output signals the rollers to rotate (AUTO Mode)					
C	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 Supervision	True	Setpoint	False			
	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 Supervision		Setpoint				
	Comment						
D	▼ //						
	Name	Static	Data type				
	Default value		Retain				
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA				
	Visible in HMI engineering Supervision		Setpoint				
	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			
E							
F	Owner		Projectname TrainingModules			Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules				
			Location				
	Designed By		Description 1st				
	Checked By		Description 2nd			Language en-US	
	Approved By		1st View			Version	
						Sheet 5 - 18	

1		2		3		4	
A	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			
B	Visible in HMI engineering	False	Setpoint	False			
	Supervision		Comment				
	▼ ///						
	Name	Turn Table Timers	Data type	TP_TIME			
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	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			
C	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True			
	Visible in HMI engineering	True	Setpoint	True			
	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	True			
	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
	Name	IN	Data type	Bool			
	Default value	false	Retain	Non-retain			
D	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			
	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
	Name	Q	Data type	Bool			
	Default value	false	Retain	Non-retain			
	Supervision		Comment				
E							
F							

Owner	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 5 - 19

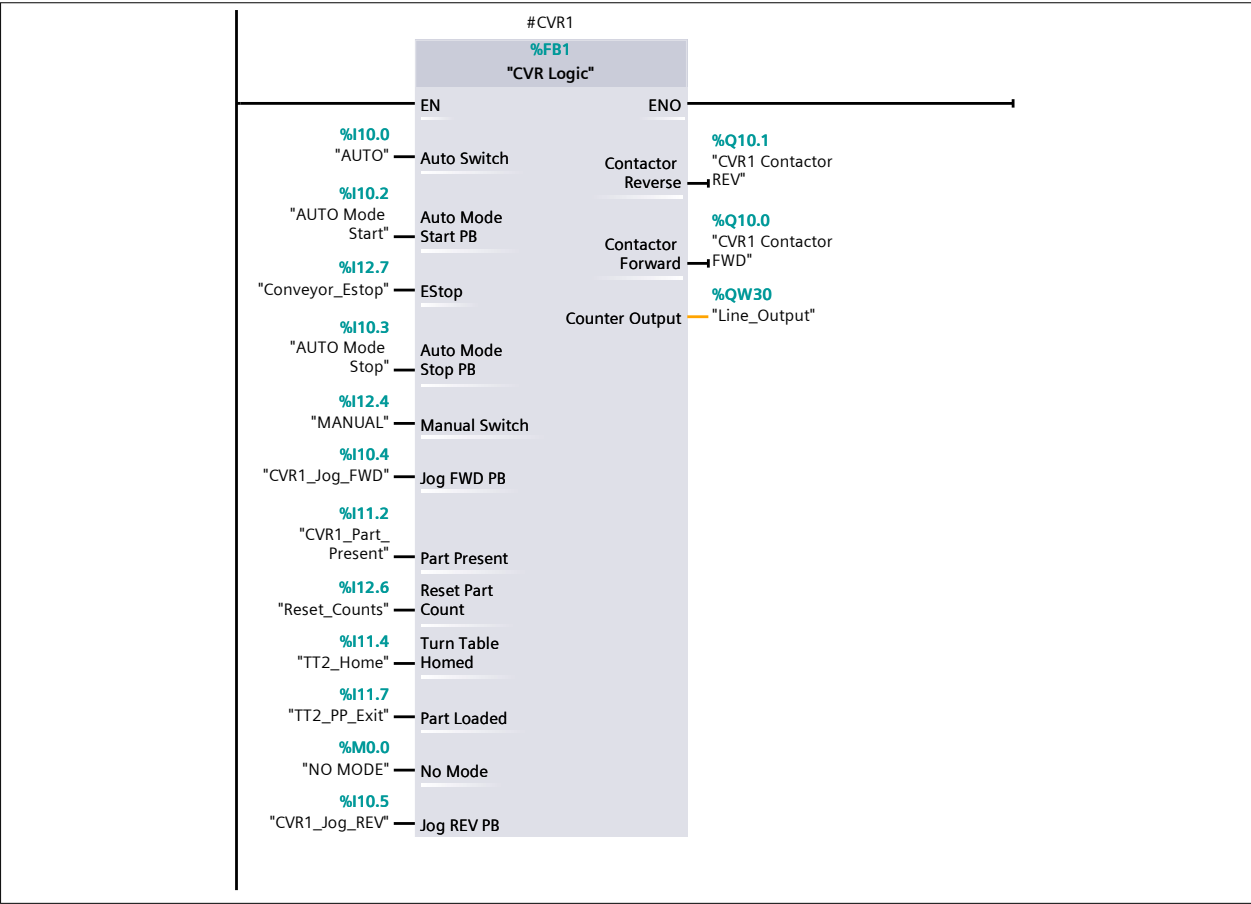
	1	2	3	4
A				
B	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	False
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	Name	Auto Stopped	Data type	Bool
	Default value	false	Retain	Non-retain
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
	▼ /			
	Name	TT3	Data type	"TT Logic"
C	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	
D	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	
E	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
F				

Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 5 - 20

	1	2	3	4
A				
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	Input signal a Part Present at the turntable exit
B	▼ //			
	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
C	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	
D	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
E				
F	Owner		Projectname TrainingModules	
			Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules	
			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd	
	Approved By		1st View	
			Language en-US	
		Version		
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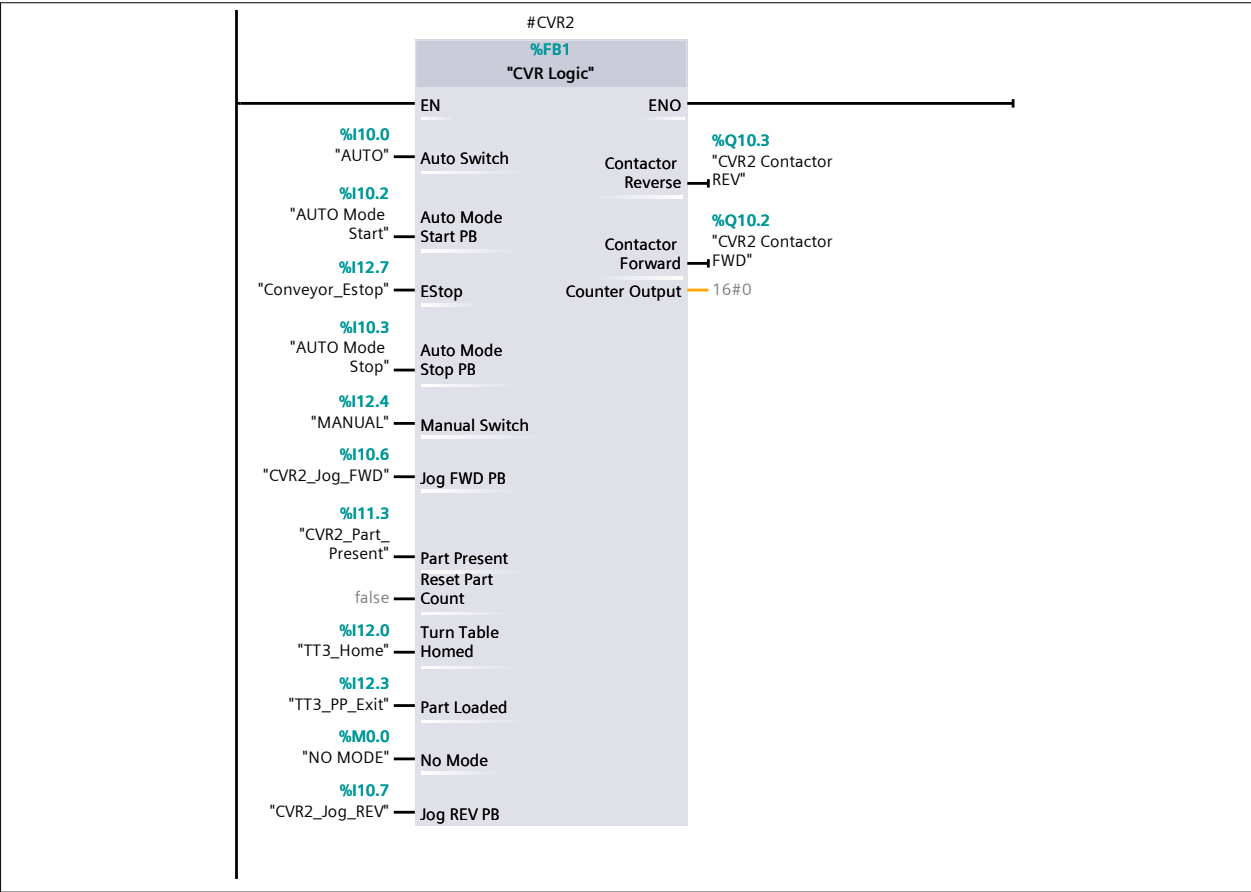
	1	2	3	4	
A					
B	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
	Name	Pickup_Rollers_FWD	Data type	Bool	
	Default value	false	Retain	Non-retain	
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
	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		
C	▼ ///				
	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		
	D	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		
E		Name	Q	Data type	Bool
		Default value	false	Retain	Non-retain
F	Owner		Projectname TrainingModules		
			Date6/16/2023		
	Operator		Project path		
			C:\Users\llruoha\Documents\Automation\TrainingModules		
			Location		
	Designed By		Description 1st		
	Checked By		Description 2nd		
			Language en-US		
	Approved By		1st View		
			Version		
			Sheet 5 - 23		

	1	2	3	4	
A					A
B	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	False	B
	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		
	C	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					
D	<div><div><div>%FC1</div><div>"Send and Receive"</div><div>EN</div><div>ENO</div></div></div>				D
Network 2: No Mode					
E	<div><div><div>%FC2</div><div>"No Mode Selected"</div><div>EN</div><div>ENO</div></div></div>				E
Network 3: CVR1 Call					
F	Owner	Projectname TrainingModules		Date6/16/2023	F
		Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
	Operator	Location			
		Description 1st			
	Designed By	Description 2nd		Language en-US	
	Checked By	1st View	Version	Sheet 5 - 24	
	Approved By				



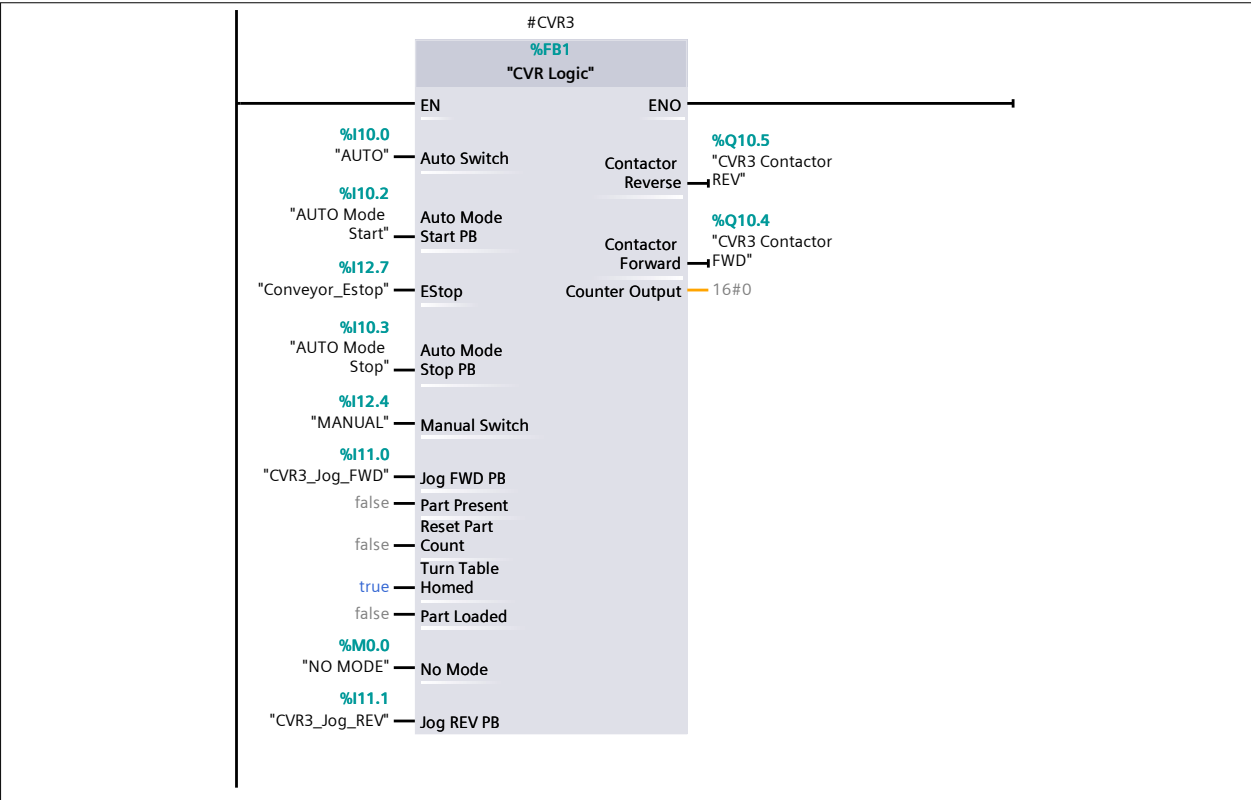
Network 4: CVR2 Call

Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 5 - 25
Approved By			



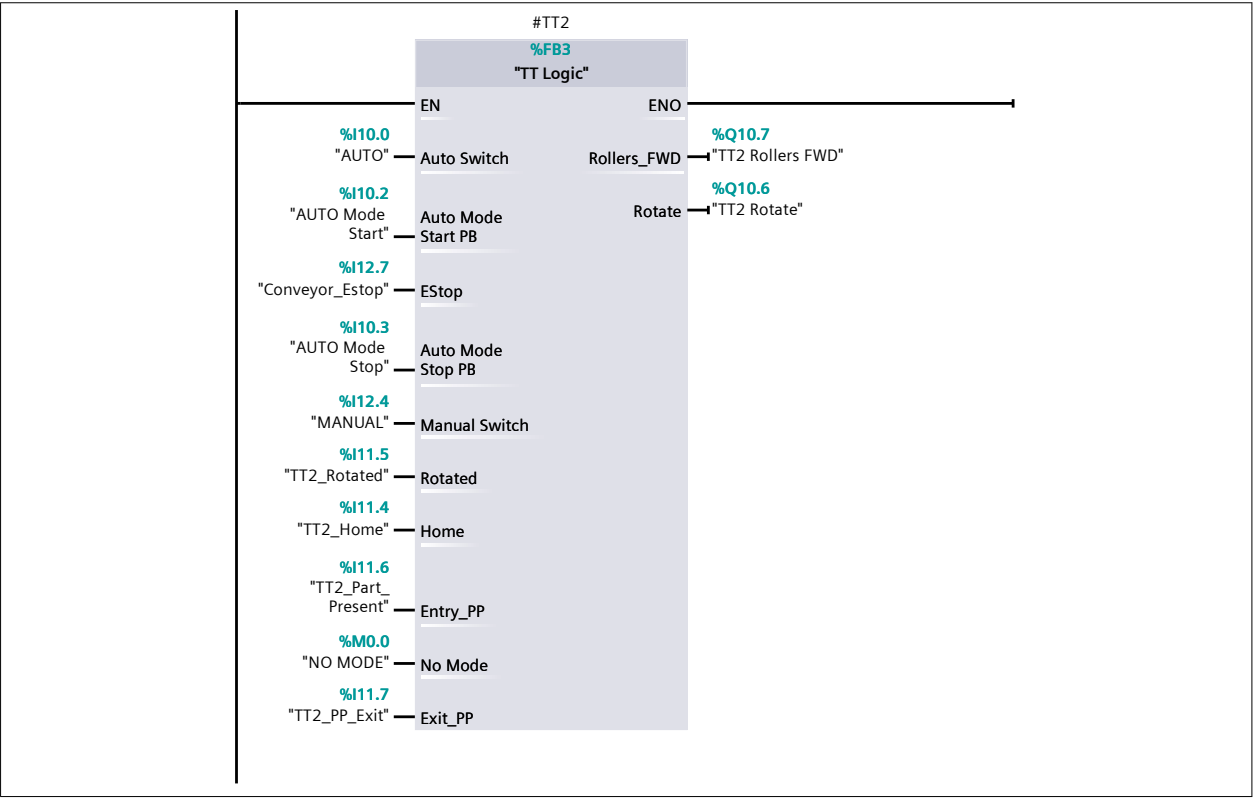
Network 5: CVR3 Call

Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 5 - 26
Approved By			



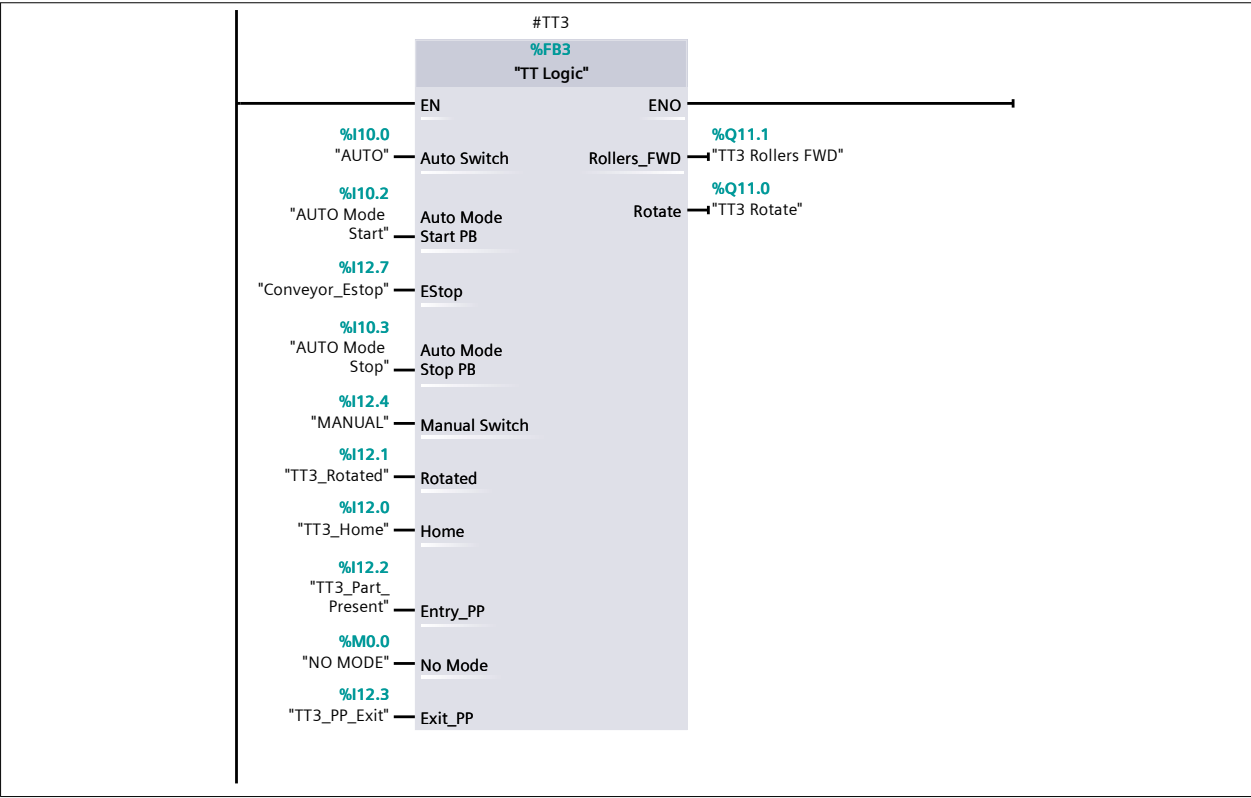
Network 6: TT2 Call

Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 5 - 27
Approved By			



Network 7: TT3 Call

Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 5 - 28
Approved By			



Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 5 - 29
Approved By			

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

Conveyor_Line_Status [DB450]

Conveyor_Line_Status Properties

General

Name	Conveyor_Line_Status	Number	450
Type	DB	Language	DB
Numbering	Manual		

Information

Title		Author	
Comment		Family	
Version	0.1	User-defined ID	

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	Output	Data type	
Start value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
Visible in HMI engineering		Setpoint	
Supervision		Comment	
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	CVR1	Data type	"CVR Logic"
Start value		Retain	False

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

1		2		3		4	
A	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True			
	Visible in HMI engineering	True	Setpoint	True			
	Supervision		Comment				
▼ //							
B	Name	Input	Data type				
	Start value		Retain				
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA				
	Visible in HMI engineering		Setpoint				
	Supervision		Comment				
C	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				
D	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				
E	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				
F	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				
F	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				
F	Name	Jog FWD PB	Data type	Bool			
	Owner		Projectname TrainingModules		Date6/16/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules				
	Designed By		Location				
	Checked By		Description 1st		Language en-US		
Approved By		Description 2nd		Version		Sheet 6 - 2	

1		2		3		4	
A	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				
B	Name	Part Present	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			
C	Supervision		Comment				
	Name	Reset Part Count	Data type	Bool			
	Start value	false	Retain	False			
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True			
D	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment				
	Name	Turn Table Homed	Data type	Bool			
	Start value	false	Retain	False			
E	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			
F	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				
▼ //							
Owner		Projectname TrainingModules			Date6/16/2023		
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
Designed By		Location					
Checked By		Description 1st			Language en-US		
Approved By		Description 2nd			Version		Sheet 6 - 3
		1st View					

	1	2	3	4
A				
B	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	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
C	Name	Contactor Forward	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 forward
	Name	Counter Output	Data type	Word
	Start value	16#0	Retain	False
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True
	Visible in HMI engineering	True	Setpoint	False
	Supervision		Comment	
D	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	
E	Supervision		Comment	
	Name	CV Forward Manual	Data type	Bool
	Start value	false	Retain	False
	Accessible from HMI/OPC UA	False	Writable from HMI/OPC UA	False
F	Owner		Projectname TrainingModules	
			Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules	
			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd	
Approved By		1st View		
		Language en-US		
		Version		
		Sheet 6 - 4		

	1	2	3	4	
A					
B	Visible in HMI engineering	False	Setpoint	False	
	Supervision		Comment		
	Name	CV Forward Auto	Data type	Bool	
	Start value	false	Retain	False	
	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	
	Start value		Retain	True	
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	
	C	Visible in HMI engineering	True	Setpoint	True
Supervision			Comment		
Name		CU	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		CD	Data type	Bool	
Start value		false	Retain	True	
Accessible from HMI/OPC UA		True	Writable from HMI/OPC UA	True	
D		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	
	E	Visible in HMI engineering	True	Setpoint	False
		Supervision		Comment	
Name		QU	Data type	Bool	
Start value		false	Retain	True	
F	Owner		Projectname TrainingModules		
			Date6/16/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
			Location		
	Designed By		Description 1st		
	Checked By		Description 2nd		
Approved By		1st View			
		Language en-US			
		Version			
		Sheet 6 - 5			

	1	2	3	4
A				
B	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
C	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	
	D	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA
Visible in HMI engineering		True	Setpoint	False
Supervision			Comment	
▼ /				
Name		CVR2	Data type	"CVR 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	
E	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Visible in HMI engineering		Setpoint	
F	Owner		Projectname TrainingModules	
			Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules	
			Location	
	Designed By		Description 1st	
	Checked By		Description 2nd	
Approved By		1st View		
		Language en-US		
		Version		
		Sheet 6 - 6		

	1	2	3	4	
A					A
	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	
B	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	B
	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	
C	Start value	false	Retain	False	C
	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		
D	Name	Jog FWD PB	Data type	Bool	D
	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	Part Present	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	
E					E
	Owner	Projectname TrainingModules		Date6/16/2023	
	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
		Location			
		Designed By	Description 1st		
Checked By		Description 2nd	Language en-US		
Approved By		1st View	Version	Sheet 6 - 7	F

	1	2	3	4
A				
B	Supervision		Comment	
	Name	Reset Part Count	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	Turn Table Homed	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	Part Loaded	Data type	Bool
C	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	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	Jog REV PB	Data type	Bool
	Start value	false	Retain	False
	D	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA
Visible in HMI engineering		True	Setpoint	False
Supervision		Comment		
▼ //				
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		Contactor Reverse	Data type	Bool
Start value		false	Retain	False
E		Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA
	Supervision		Comment	
F				

Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 6 - 8
Approved By			

1		2		3		4			
A								A	
B	Visible in HMI engineering Supervision	True		Setpoint	False			B	
	Name	Contactor Forward		Comment	Output signals for rollers to rotate reverse				
	Start value	false		Data type	Bool				
	Accessible from HMI/OPC UA	True		Retain	False				
	Visible in HMI engineering Supervision	True		Writable from HMI/OPC UA	True				
	Name	Counter Output		Setpoint	False				
	Start value	16#0		Comment	Output signals for rollers to rotate forward				
	Accessible from HMI/OPC UA	True		Data type	Word				
	Visible in HMI engineering Supervision	True		Retain	False				
	Name	InOut		Writable from HMI/OPC UA	True				
C	Start value			Setpoint	False			C	
	Accessible from HMI/OPC UA			Comment					
	Visible in HMI engineering Supervision			Data type					
	Name			Retain					
	Start value			Writable from HMI/OPC UA					
	Accessible from HMI/OPC UA			Setpoint					
	Visible in HMI engineering Supervision			Comment					
	▼ //								D
	Name	Static		Data type					
	Start value			Retain					
Accessible from HMI/OPC UA			Writable from HMI/OPC UA						
Visible in HMI engineering Supervision			Setpoint						
Name	CV Forward Manual		Comment						
Start value	false		Data type	Bool					
Accessible from HMI/OPC UA	False		Retain	False					
Visible in HMI engineering Supervision	False		Writable from HMI/OPC UA	False					
Name	CV Forward Auto		Setpoint	False					
E	Start value	false		Comment				E	
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	Visible in HMI engineering Supervision	False		Retain	False				
	Name			Writable from HMI/OPC UA	False				
	Start value			Setpoint	False				
	Accessible from HMI/OPC UA			Comment					
	Visible in HMI engineering Supervision			Data type	Bool				
	Name			Retain	False				
	Start value			Writable from HMI/OPC UA	False				
	Accessible from HMI/OPC UA			Setpoint	False				
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Name			Comment						
Start value									
Accessible from HMI/OPC UA									
Visible in HMI engineering Supervision									
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Accessible from HMI/OPC UA									
Visible in HMI engineering Supervision									
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B	Supervision		Comment		B
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	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		Setpoint		
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	Supervision		Comment		
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Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
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Approved By		1st View		Version	Sheet 6 - 11

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	Visible in HMI engineering	True	Setpoint	False			
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	Supervision		Comment				
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Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
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Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 6 - 12

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	Approved By		1st View		Version		
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	Supervision		Comment		
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	Supervision		Comment		
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Approved By		1st View		Version	
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	Approved By		1st View		Version		Sheet 6 - 15

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	Name		Data type	
	Start value		Retain	
Accessible from HMI/OPC UA		Writable from HMI/OPC UA		
E	Supervision		Comment	
	Name		Data type	
	Start value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Supervision		Comment	
	Name		Data type	
	Start value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Supervision		Comment	
	Name		Data type	
	Start value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
F	Supervision		Comment	
	Name		Data type	
	Start value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Supervision		Comment	
	Name		Data type	
	Start value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	
	Supervision		Comment	
	Name		Data type	
	Start value		Retain	
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA	

Owner	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 6 - 17

1		2		3		4			
A	Visible in HMI engineering	True	Setpoint	False					
	Supervision		Comment	Input signal a Part Present at the turntable exit					
B	▼ //								
	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					
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	Visible in HMI engineering	True	Setpoint	False					
C	Supervision		Comment	Output signals the rollers to rotate (AUTO Mode)					
	Name	Rotate	Data type	Bool					
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	Visible in HMI engineering	True	Setpoint	False					
	Supervision		Comment	Output signals the table to rotate (AUTO Mode)					
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	Start value		Retain						
	Accessible from HMI/OPC UA		Writable from HMI/OPC UA						
	Visible in HMI engineering		Setpoint						
D	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					
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E									
F	Owner		Projectname TrainingModules			Date6/16/2023			
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules						
			Location						
	Designed By		Description 1st						
	Checked By		Description 2nd			Language en-US			
	Approved By		1st View			Version		Sheet 6 - 18	

1		2		3		4	
A	Visible in HMI engineering		True	Setpoint	False		
	Supervision			Comment			
B	Name		Pickup_Rollers_FWD	Data type	Bool		
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	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			
C	▼ ///						
	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		
D	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		
E	Supervision			Comment			
	Name		Q	Data type	Bool		
	Start value		false	Retain	False		
F	Owner		Projectname TrainingModules			Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules				
			Location				
	Designed By		Description 1st				
	Checked By		Description 2nd			Language en-US	
	Approved By		1st View			Version	
						Sheet 6 - 19	

1		2		3		4																														
A	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																																	
	▼ /																																			
	B	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																																	
▼ //																																				
C		Name	Input	Data type																																
		Start value		Retain																																
		Accessible from HMI/OPC UA		Writable from HMI/OPC UA																																
		Visible in HMI engineering		Setpoint																																
	Supervision		Comment																																	
	D	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																																
E		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																																
	F	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																															
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Owner		Projectname TrainingModules		Date6/16/2023																																
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules																																		
		Location																																		
Designed By		Description 1st																																		
Checked By		Description 2nd		Language en-US																																
Approved By	1st View	Version	Sheet 6 - 20																																	

	1	2	3	4	
A					
B	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		
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Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True		
Visible in HMI engineering	True	Setpoint	False		
C	Supervision		Comment	Input signal the turntable is Rotated	
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	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment	Input signal the turntable is Home	
	Name	Entry_PP	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	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		
D	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	
	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	
	E	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
F		Owner		Projectname TrainingModules Date6/16/2023	
		Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules	
				Location	
		Designed By		Description 1st	
		Checked By		Description 2nd Language en-US	
		Approved By		1st View Version Sheet 6 - 21	

1		2		3		4	
A	Visible in HMI engineering	True	Setpoint	False			
	Supervision		Comment	Input signal a Part Present at the turntable exit			
B	▼ //						
	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			
C	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				
D	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			
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	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True			
E							
F	Owner		Projectname TrainingModules			Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules				
			Location				
	Designed By		Description 1st				
	Checked By		Description 2nd			Language en-US	
	Approved By		1st View			Version	
						Sheet 6 - 22	

	1	2	3	4	
A					A
B	Visible in HMI engineering	True	Setpoint	False	B
	Supervision		Comment		
	Name	Pickup_Rollers_FWD	Data type	Bool	
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	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	
C	Visible in HMI engineering	False	Setpoint	False	C
	Supervision		Comment		
	▼ ///				
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	Visible in HMI engineering	True	Setpoint	True	
	Supervision		Comment		
	Name	PT	Data type	Time	
	Start value	T#0ms	Retain	False	
D	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	D
	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	
E	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True	E
	Visible in HMI engineering	True	Setpoint	False	
	Supervision		Comment		
	Name	Q	Data type	Bool	
	Start value	false	Retain	False	
F					F
Owner		Projectname TrainingModules		Date6/16/2023	
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
		Location			
Designed By		Description 1st			
Checked By		Description 2nd		Language en-US	
Approved By		1st View		Version	
				Sheet 6 - 23	

	1	2	3	4																								
A					A																							
B	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	False	B																							
	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																									
C					C																							
D					D																							
E					E																							
F	<table><tr><td rowspan="2">Owner</td><td colspan="2">Projectname TrainingModules</td><td>Date6/16/2023</td></tr><tr><td colspan="3">Project path C:\Users\llruoha\Documents\Automation\TrainingModules</td></tr><tr><td>Operator</td><td colspan="3">Location</td></tr><tr><td>Designed By</td><td colspan="3">Description 1st</td></tr><tr><td>Checked By</td><td>Description 2nd</td><td colspan="2">Language en-US</td></tr><tr><td>Approved By</td><td>1st View</td><td>Version</td><td>Sheet 6 - 24</td></tr></table>				Owner	Projectname TrainingModules		Date6/16/2023	Project path C:\Users\llruoha\Documents\Automation\TrainingModules			Operator	Location			Designed By	Description 1st			Checked By	Description 2nd	Language en-US		Approved By	1st View	Version	Sheet 6 - 24	F
Owner	Projectname TrainingModules		Date6/16/2023																									
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules																											
Operator	Location																											
Designed By	Description 1st																											
Checked By	Description 2nd	Language en-US																										
Approved By	1st View	Version	Sheet 6 - 24																									

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
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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	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

Owner	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 7 - 1

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	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	Input signal the turntable is Rotated			
B	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			
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	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			
C	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				
	D	Owner		Projectname TrainingModules			Date6/16/2023
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
		Location					
Designed By		Description 1st					
Checked By		Description 2nd			Language en-US		
Approved By		1st View			Version		
E						Sheet 7 - 2	
F							

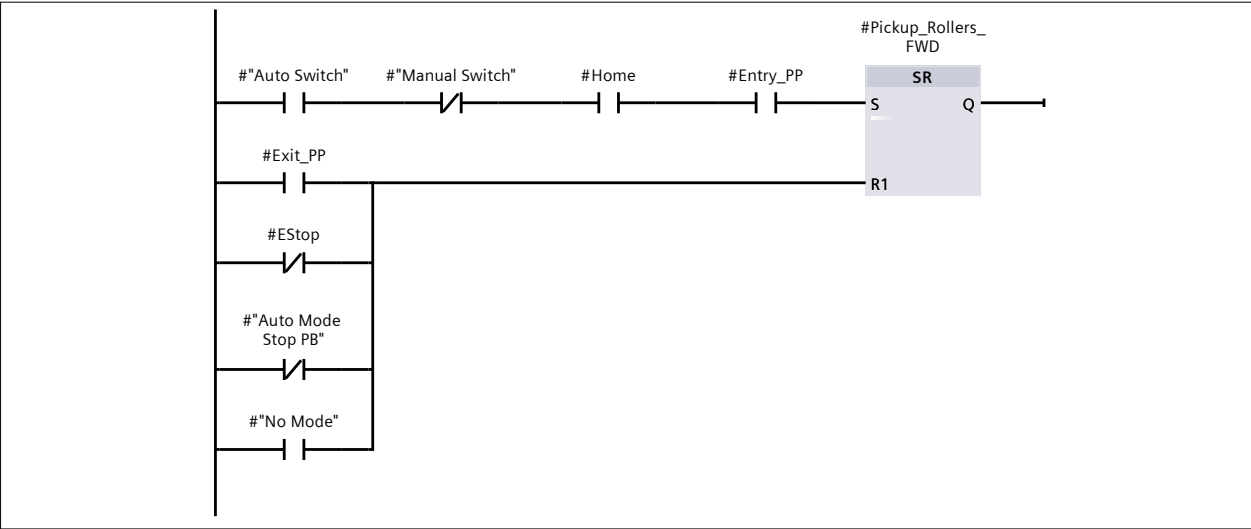
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A	Default value				Retain			
	Accessible from HMI/OPC UA				Writable from HMI/OPC UA			
	Visible in HMI engineering				Setpoint			
	Supervision				Comment			
	Name		Rollers_FWD		Data type		Bool	
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	Accessible from HMI/OPC UA		True		Writable from HMI/OPC UA		True	
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	Supervision				Comment		Output signals the rollers to rotate (AUTO Mode)	
	Name		Rotate		Data type		Bool	
B	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			
C	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			
D	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				Setpoint			
	Supervision				Comment			
	Name				Data type			
	Default value				Retain			
	Accessible from HMI/OPC UA				Writable from HMI/OPC UA			
	Visible in HMI engineering				Setpoint			
	Supervision				Comment			
E	Name				Data type			
	Default value				Retain			
	Accessible from HMI/OPC UA				Writable from HMI/OPC UA			
	Visible in HMI engineering				Setpoint			
	Supervision				Comment			
	Name				Data type			
	Default value				Retain			
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	Visible in HMI engineering				Setpoint			
	Supervision				Comment			
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	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
			Location					
	Designed By		Description 1st					
	Checked By		Description 2nd				Language en-US	
	Approved By		1st View				Version	
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	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	Turn Table Timers	Data type	TP_TIME			
	Default value		Retain	Non-retain			
	Accessible from HMI/OPC UA	True	Writable from HMI/OPC UA	True			
	B	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			
C		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				
	D	Name	Auto Stopped	Data type	Bool		
Default value		false	Retain	Non-retain			
E							
	F						

Owner	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
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Approved By	1st View	Version	Sheet 7 - 4

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



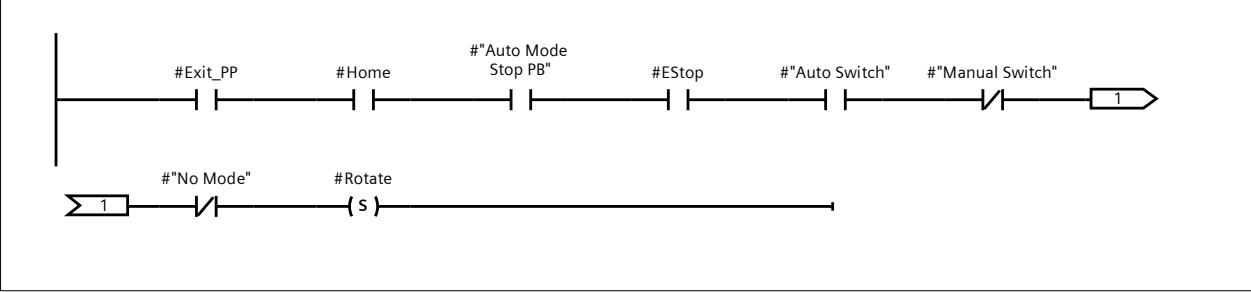
Network 2: Rotate Turn Table When Part Hits Exit Sensor

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

1234

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Network 2: Rotate Turn Table When Part Hits Exit Sensor

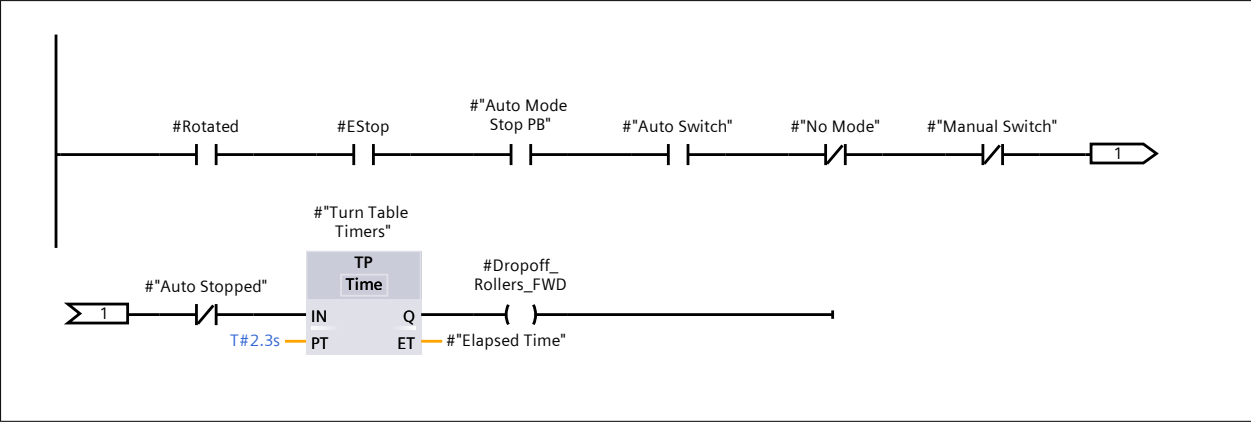


B

Network 3: Remove Part From Turn Table

C

Network 3: Remove Part From Turn Table

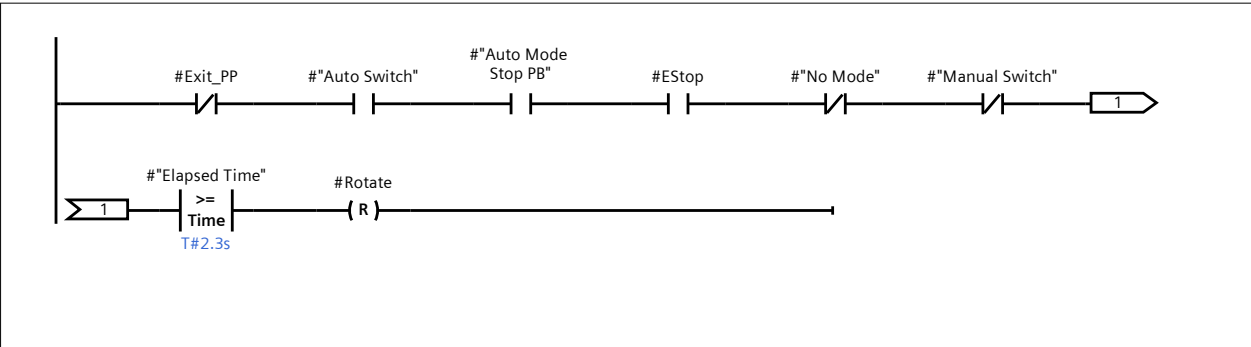


D

Network 4: Rotate Turn Table Back After Part is Removed

E

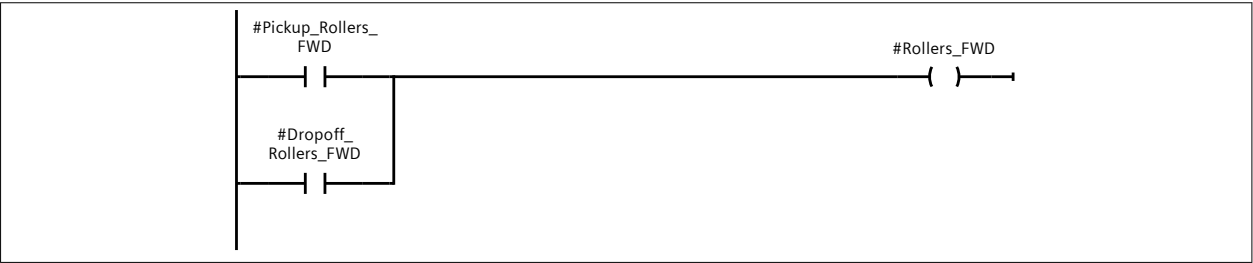
Network 4: Rotate Turn Table Back After Part is Removed



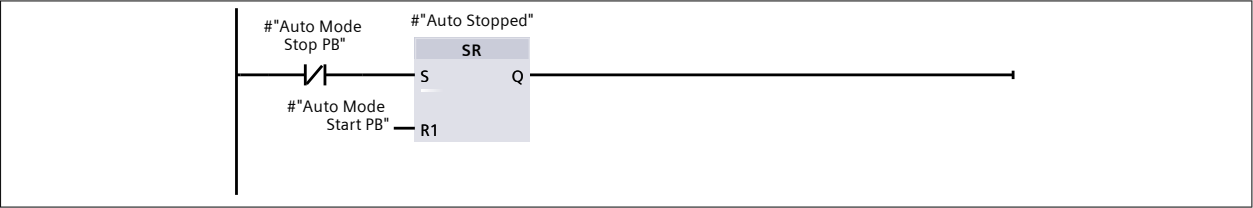
F

Network 5: Enable Rollers by Utilizing Statics

Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 7 - 6
Approved By			



Network 6: Auto Stop Push Button Stopping Functionality



Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 7 - 7
Approved By			

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

Send and Receive [FC1]

Send and Receive Properties

General

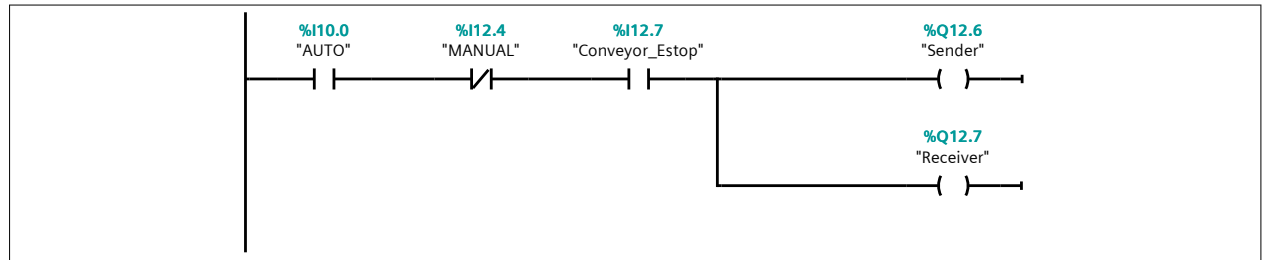
Name	Send and Receive	Number	1
Type	FC	Language	LAD
Numbering	Automatic		

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	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	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

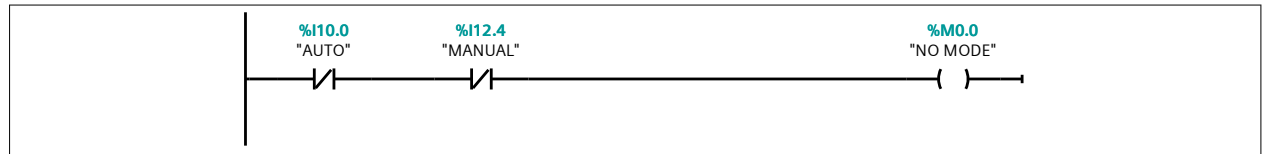
Name	No Mode Selected	Number	2
Type	FC	Language	LAD
Numbering	Automatic		

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	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 9 - 1

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PLC_1 [CPU 1516-3 PN/DP]

Technology objects

This folder is empty.

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Owner	Projectname TrainingModules	Date6/16/2023	
Operator	Project path C:\Users\llruoha\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 turntable is Rotated TT3
	TT3_PP_Exit	Bool	%I12.3	False	True	True	True		Input signal a Part Present at the turntable exit TT3
	CVR2 Contactor FWD	Bool	%Q10.2	False	True	True	True		Activates CVR2 Forward Contactor

Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	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	Projectname TrainingModules		Date6/16/2023			
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
Operator	Location					
	Description 1st					
Designed By	Description 2nd					
Checked By	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	Re- tain	Ac- cessi- ble from HMI/ OPC UA	Writ- able from HMI/ OPC UA	Visi- ble in HMI engi- neer- ing	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

Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	Language en-US		
Approved By	1st View	Version	Sheet 13 - 1

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














User constants

User constants				
Name	Data type	Value	Comment	

Owner	Projectname TrainingModules	Date6/16/2023	
Operator	Project path	C:\Users\llruoha\Documents\Automation\TrainingModules	
	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	Re- tain	Ac- cessi- ble from HMI/ OPC UA	Writ- able from HMI/ OPC UA	Visi- ble in HMI engi- neer- ing	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

Owner	Projectname TrainingModules		Date 6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		Language en-US
Checked By	1st View	Version	Sheet 15 - 1
Approved By			

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











User constants

User constants				
	Name	Data type	Value	Comment

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

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

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
	 TT2 Rotate	Bool	%Q10.6	False	True	True	True		Output signals the ta- ble to rotate (AUTO Mode) TT2
	 TT2 Rollers FWD	Bool	%Q10.7	False	True	True	True		Output signals the roll- ers to rotate (AUTO Mode) TT2
	 TT3 Rotate	Bool	%Q11.0	False	True	True	True		Output signals the ta- ble to rotate (AUTO Mode) TT3
	 TT3 Rollers FWD	Bool	%Q11.1	False	True	True	True		Output signals the roll- ers to rotate (AUTO Mode) TT3
	 TT2_Home	Bool	%I11.4	False	True	True	True		Input signal the turnta- ble is Home TT2
	 TT2_Rotated	Bool	%I11.5	False	True	True	True		Input signal the turnta- ble is Rotated TT2
	 TT2_Part_Present	Bool	%I11.6	False	True	True	True		Input signal a Part Pres- ent at the turntable en- try TT2
	 TT2_PP_Exit	Bool	%I11.7	False	True	True	True		Input signal a Part Pres- ent at the turntable exit
	 TT3_Home	Bool	%I12.0	False	True	True	True		Input signal the turnta- ble is Home TT3
	 TT3_Part_Present	Bool	%I12.2	False	True	True	True		Input signal a Part Pres- ent at the turntable en- try TT3

Owner	Projectname TrainingModules		Date 6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	Language en-US		
Approved By	1st View	Version	Sheet 17 - 1

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\llruoha\Documents\Automation\TrainingModules					
Operator	Location					
	Description 1st					
Designed By	Description 2nd					
Checked By	Language en-US					
Approved By	1st View	Version	Sheet 18 - 1			

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

System data types

This folder is empty.

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Owner	Projectname TrainingModules	Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules	
	Location	
Designed By	Description 1st	
Checked By	Description 2nd	Language en-US
Approved By	1st View	Version
		Sheet 19 - 1

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

Force table

Name	Address	Display format	Force value	Comment
------	---------	----------------	-------------	---------

Owner	Projectname	TrainingModules		Date	6/16/2023
Operator	Project path	C:\Users\llruoha\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		

Owner	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Designed By	Location		
Checked By	Description 1st		Language en-US
Approved By	1st View	Version	Sheet 21 - 1

1	2	3	4																											
A				A																										
<table><thead><tr><th>Name</th><th>Address</th><th>Display format</th><th>Modify value</th><th>Comment</th></tr></thead><tbody><tr><td>"TT3_Part_Present"</td><td>%I12.2</td><td>Bool</td><td></td><td></td></tr><tr><td>"TT3_PP_Exit"</td><td>%I12.3</td><td>Bool</td><td></td><td></td></tr><tr><td>"TT3 Rollers FWD"</td><td>%Q11.1</td><td>Bool</td><td></td><td></td></tr></tbody></table>					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								
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																												
B				B																										
C				C																										
D				D																										
E				E																										
F	<table><tr><td rowspan="2">Owner</td><td colspan="2">Projectname TrainingModules</td><td>Date6/16/2023</td></tr><tr><td colspan="3">Project path C:\Users\llruoha\Documents\Automation\TrainingModules</td></tr><tr><td rowspan="2">Operator</td><td colspan="3">Location</td></tr><tr><td colspan="3">Description 1st</td></tr><tr><td>Designed By</td><td colspan="2">Description 2nd</td><td>Language en-US</td></tr><tr><td>Checked By</td><td>1st View</td><td>Version</td><td>Sheet 21 - 2</td></tr><tr><td>Approved By</td><td colspan="3"></td></tr></table>			Owner	Projectname TrainingModules		Date6/16/2023	Project path C:\Users\llruoha\Documents\Automation\TrainingModules			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version	Sheet 21 - 2	Approved By				F
Owner	Projectname TrainingModules		Date6/16/2023																											
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules																													
Operator	Location																													
	Description 1st																													
Designed By	Description 2nd		Language en-US																											
Checked By	1st View	Version	Sheet 21 - 2																											
Approved By																														

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PLC_1 [CPU 1516-3 PN/DP]

Traces

Name

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Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	Language en-US		
Approved By	1st View	Version	Sheet 22 - 1

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

Measurements

This folder is empty.

B

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Owner	Projectname TrainingModules	Date6/16/2023	
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 23 - 1

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

Combined measurements

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Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	Language en-US		
Approved By	1st View	Version	Sheet 24 - 1

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PLC_1 [CPU 1516-3 PN/DP] / OPC UA communication

Server interfaces

This folder is empty.

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Owner	Projectname TrainingModules	Date6/16/2023	
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 25 - 1

PLC_1 [CPU 1516-3 PN/DP] / OPC UA communication

Client interfaces

This folder is empty.

Owner	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	Location		
Designed By	Description 1st		
Checked By	Description 2nd	Language en-US	
Approved By	1st View	Version	Sheet 26 - 1

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

PLC supervisions

This folder is empty.

B

B

C

C

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Owner	Projectname TrainingModules		Date6/16/2023
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Operator	Location		
	Description 1st		
Designed By	Description 2nd		
Checked By	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	Projectname TrainingModules		Date6/16/2023
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	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


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



1		2		3		4	
A	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						
B	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				
C	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						
D	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@				
E	Alarm class		No Acknowledgement				
	Acknowledgment		False				
	Information only		True				
	Priority		0				
	Report		False				
	Owner		Projectname TrainingModules		Date6/16/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules				
	Designed By		Location				
	Checked By		Description 1st				
	Approved By		Description 2nd		Language en-US		
F			1st View		Version		Sheet 29 - 2



1		2		3		4		
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	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							
B	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					
C	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							
D	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					
E	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					
	Owner		Projectname TrainingModules				Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
			Location					
	Designed By		Description 1st					
	Checked By		Description 2nd				Language en-US	
F	Approved By		1st View				Version	
							Sheet 29 - 3	

	1	2	3	4	
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B	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				
C	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			
	D	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			
E		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@			
F	Owner	Projectname TrainingModules		Date6/16/2023	
	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
		Location			
	Designed By	Description 1st			
	Checked By	Description 2nd	Language en-US		
	Approved By	1st View	Version	Sheet 29 - 4	



	1	2	3	4
A	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	
B	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			
	C	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		
D	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			
E	Additional text 6			
	Additional text 7			
	Additional text 8			
	Additional text 9			
	Name		 SDIAG_ALCAT_CPU_MR_MSG1_0012	
	Type		PLC alarm	
	Owner		Projectname TrainingModules Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules	
	Designed By		Location	
	Checked By		Description 1st	
F	Approved By		Description 2nd	
			Language en-US	
			1st View	
		Version		
		Sheet 29 - 5		



	1	2	3	4	
A					A
B	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		
	C	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			
D	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		
	E	Additional text 2			
Additional text 3					
Additional text 4					
Additional text 5					
Additional text 6					
Additional text 7					
F	Owner		Projectname TrainingModules		
			Date6/16/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
			Location		
	Designed By		Description 1st		
	Checked By		Description 2nd		
	Approved By		1st View		
		Language en-US			
		Version			
		Sheet 29 - 6			


	1	2	3	4	
A					A
B	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				
C					C
D	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					
E					E
F	Owner		Projectname TrainingModules		Date6/16/2023
	Operator		Project path		
			C:\Users\llruoha\Documents\Automation\TrainingModules		
			Location		
	Designed By		Description 1st		
	Checked By		Description 2nd		Language en-US
	Approved By		1st View	Version	Sheet 29 - 7



	1	2	3	4	
A					A
B	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		
	C	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					
D		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		
	E	Created by		System diagnostics	
		Date created		6/12/2023 7:54 AM	
Owner		Projectname TrainingModules			
		Date6/16/2023			
Operator		Project path			
		C:\Users\llruoha\Documents\Automation\TrainingModules			
		Location			
Designed By		Description 1st			
Checked By		Description 2nd			
		Language en-US			
F		Approved By		1st View	
				Version	
		Sheet 29 - 8		F	

	1	2	3	4																												
A																																
B	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																															
C	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																														
D	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																															
E	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@																														
F	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@																														
	Alarm class	No Acknowledgement																														
	Acknowledgment	False																														
<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules</td> <td colspan="2">Date6/16/2023</td> </tr> <tr> <td colspan="4">Project path C:\Users\llruoha\Documents\Automation\TrainingModules</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="4">Location</td> </tr> <tr> <td colspan="4">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td colspan="2">Language en-US</td> </tr> <tr> <td>Checked By</td> <td colspan="2">1st View</td> <td>Version</td> <td>Sheet 29 - 9</td> </tr> </table>					Owner	Projectname TrainingModules		Date6/16/2023		Project path C:\Users\llruoha\Documents\Automation\TrainingModules				Operator	Location				Description 1st				Designed By	Description 2nd		Language en-US		Checked By	1st View		Version	Sheet 29 - 9
Owner	Projectname TrainingModules		Date6/16/2023																													
	Project path C:\Users\llruoha\Documents\Automation\TrainingModules																															
Operator	Location																															
	Description 1st																															
Designed By	Description 2nd		Language en-US																													
Checked By	1st View		Version	Sheet 29 - 9																												



	1	2	3	4
A				
B	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				
C	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		
	D	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		
E		Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
F	Owner	Projectname TrainingModules		Date6/16/2023
	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
		Location		
	Designed By	Description 1st		
	Checked By	Description 2nd	Language en-US	
	Approved By	1st View	Version	Sheet 29 - 10

	1	2	3	4			
A					A		
B	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@			B		
	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						
	C	Additional text 5				C	
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					
D		Priority	0				D
	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						
	E	Additional text 9				E	
Name		 SDIAG_ALCAT_ESUB_MD_MSG_0022					
Type		PLC alarm					
ID		21					
Owner		Projectname TrainingModules		Date6/16/2023			
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
		Location					
Designed By		Description 1st					
Checked By		Description 2nd		Language en-US			
Approved By		1st View		Version			
				Sheet 29 - 11			
F							F



1		2		3		4			
A	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@						
	B	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					
	C	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							
D	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									
E	Owner		Projectname TrainingModules				Date6/16/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules						
			Location						
	Designed By		Description 1st						
	Checked By		Description 2nd				Language en-US		
	Approved By		1st View				Version		
							Sheet 29 - 12		



	1	2	3	4		
A					A	
B	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					
C	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						
D					D	
E					E	
F					F	
	Owner		Projectname TrainingModules		Date6/16/2023	
	Operator		Project path			
			C:\Users\llruoha\Documents\Automation\TrainingModules			
			Location			
	Designed By		Description 1st			
	Checked By		Description 2nd		Language en-US	
	Approved By		1st View		Version	Sheet 29 - 13


1		2		3		4		
A								
B								
C								
D								
E								
F								



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			



Owner		Projectname TrainingModules		Date6/16/2023	
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
		Location			
Designed By		Description 1st			
Checked By		Description 2nd		Language en-US	
Approved By		1st View		Version	
				Sheet 29 - 14	


	1	2	3	4
A				
B	Additional text 3			
	Additional text 4			
C	Additional text 5			
	Additional text 6			
D	Additional text 7			
	Additional text 8			
E	Additional text 9			
	Name		 SDIAG_ALCAT_SECU_EV_INFO_005F	
F	Type		PLC alarm	
	ID		27	
A	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@	
B	Info text		Short name: @6W%t#260K@ Order number: @6W%t#265K@	
	Alarm class		No Acknowledgement	
C	Acknowledgment		False	
	Information only		True	
D	Priority		0	
	Report		False	
E	Created by		Security	
	Date created		6/12/2023 7:54 AM	
F	Last change		6/12/2023 7:54 AM	
	Group ID		0	
A	Additional text 1		PLC_1	
	Additional text 2			
B	Additional text 3			
	Additional text 4			
C	Additional text 5			
	Additional text 6			
D	Additional text 7			
	Additional text 8			
E	Additional text 9			
	Name		 SDIAG_ALCAT_USER_MSG_0080	
F	Type		PLC alarm	
	ID		28	
A	Location		PLC_1	
	Alarm text		User message: @1W%t#2W@	
B	Info text		Short name: @6W%t#260K@ Order number: @6W%t#265K@	
	Alarm class		No Acknowledgement	
C	Acknowledgment		False	
	Information only		True	
D	Priority		0	
	Report		False	
E	Created by		System diagnostics	
	Date created		6/12/2023 7:54 AM	
F	Last change		6/12/2023 7:54 AM	
	Group ID		0	
Owner		Projectname TrainingModules		Date6/16/2023
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
Designed By		Location		
Checked By		Description 1st		
Approved By		Description 2nd		Language en-US
		1st View	Version	Sheet 29 - 15



	1	2	3	4
A				
B	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			
Owner	Projectname TrainingModules		Date6/16/2023	
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
	Location			
Designed By	Description 1st			
Checked By	Description 2nd		Language en-US	
Approved By	1st View		Version	Sheet 29 - 16



	1	2	3	4	
A					A
B	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				
C	Name	 SDIAG_ALCAT_MODULE_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			
D	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				
E	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			
	Owner		Projectname TrainingModules		Date6/16/2023
	Operator		Project path		
			C:\Users\llruoha\Documents\Automation\TrainingModules		
		Location			
Designed By		Description 1st			
Checked By		Description 2nd		Language en-US	
Approved By		1st View		Version	
				Sheet 29 - 17	
F					F



1		2		3		4	
A	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						
B	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@					
C	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					
D	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					
E	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@					
	Owner	Projectname TrainingModules		Date6/16/2023			
	Operator	Project path		C:\Users\llruoha\Documents\Automation\TrainingModules			
		Location					
	Designed By	Description 1st					
	Checked By	Description 2nd		Language en-US			
Approved By	1st View		Version		Sheet 29 - 18		



	1	2	3	4				
A					A			
B	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							
	C	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						
D		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							
	E	Name		 SDIAG_ALCAT_CPU_ERR_MSG_0110				
Type		PLC alarm						
ID		36						
Location		PLC_1						
F	Owner		Projectname TrainingModules		Date6/16/2023			
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
			Location					
	Designed By		Description 1st					
	Checked By		Description 2nd		Language en-US			
	Approved By		1st View		Version		Sheet 29 - 19	



	1	2	3	4		
A					A	
B	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					
	C	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				
D	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					
	E					
F	Owner		Projectname TrainingModules		Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
			Location			
	Designed By		Description 1st			
	Checked By		Description 2nd		Language en-US	
	Approved By		1st View		Version	Sheet 29 - 20


	1	2	3	4				
A								
B	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							
	C	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						
D		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							
	E	Additional text 3						
		Additional text 4						
		Additional text 5						
F	Owner		Projectname TrainingModules		Date6/16/2023			
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
			Location					
	Designed By		Description 1st					
	Checked By		Description 2nd		Language en-US			
	Approved By		1st View		Version		Sheet 29 - 21	



1		2		3		4		
A	Additional text 6							
	Additional text 7							
	Additional text 8							
	Additional text 9							
	B	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				
	C	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								
D	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					
	E	Owner		Projectname TrainingModules			Date6/16/2023	
Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules						
		Location						
Designed By		Description 1st						
Checked By		Description 2nd			Language en-US			
Approved By		1st View			Version			
					Sheet 29 - 22			
F								










1		2		3		4	
A	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						
	B	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					
C	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						
D	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@				
E	Alarm class		No Acknowledgement				
	Acknowledgment		False				
	Information only		False				
	Priority		0				
	Owner		Projectname TrainingModules		Date6/16/2023		
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules				
	Designed By		Location				
	Checked By		Description 1st				
	Approved By		Description 2nd		Language en-US		
			1st View		Version		Sheet 29 - 23

	1	2	3	4
A				
B	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			
	C	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		
D		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		
	E	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@		
F	Owner	Projectname TrainingModules		Date6/16/2023
	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
		Location		
	Designed By	Description 1st		
	Checked By	Description 2nd	Language en-US	
	Approved By	1st View	Version	Sheet 29 - 24

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A					A		
B	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						
	C	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					
D		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						
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	Additional text 6						
	Additional text 7						
	E	Additional text 8					
		Additional text 9					
Name		 SDIAG_ALCAT_SUB_MD_MSG_0121					
Type		PLC alarm					
ID		47					
Location		PLC_1					
F		Owner		Projectname TrainingModules		Date6/16/2023	
		Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
	Location						
	Designed By		Description 1st				
	Checked By		Description 2nd		Language en-US		
	Approved By		1st View		Version		Sheet 29 - 25

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A					A			
B	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							
	C	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						
D	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							
	E							
F	Owner		Projectname TrainingModules		Date6/16/2023			
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules					
			Location					
	Designed By		Description 1st					
	Checked By		Description 2nd		Language en-US			
	Approved By		1st View		Version		Sheet 29 - 26	

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A					A	
B	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			
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	C	Additional text 3				
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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				
D	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			
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	E	Additional text 4				
		Additional text 5				
		Additional text 6				
F	Owner		Projectname TrainingModules		Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules			
			Location			
	Designed By		Description 1st			
	Checked By		Description 2nd		Language en-US	
	Approved By		1st View		Version	Sheet 29 - 27

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28</td> </tr> </table> </td> </tr> </table>				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		C									D	<table border="1"> <tr> <td>Name</td> <td> SDIAG_ALCAT_PLC_MSG_01FF</td> </tr> <tr> <td>Type</td> <td>PLC alarm</td> </tr> <tr> <td>ID</td> <td>52</td> </tr> <tr> <td>Location</td> <td>PLC_1</td> </tr> <tr> <td>Alarm text</td> <td>PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@</td> </tr> <tr> <td>Info text</td> <td>Short name: @6W%t#260K@ Order number: @6W%t#265K@</td> </tr> <tr> <td>Alarm class</td> <td>No Acknowledgement</td> </tr> <tr> <td>Acknowledgment</td> <td>False</td> </tr> <tr> <td>Information only</td> <td>False</td> </tr> <tr> <td>Priority</td> <td>0</td> </tr> <tr> <td>Report</td> <td>False</td> </tr> <tr> <td>Created by</td> <td>System diagnostics</td> </tr> <tr> <td>Date created</td> <td>6/12/2023 7:54 AM</td> </tr> <tr> <td>Last change</td> <td>6/12/2023 7:54 AM</td> </tr> <tr> <td>Group ID</td> <td>0</td> </tr> <tr> <td>Additional text 1</td> <td>PLC_1</td> </tr> <tr> <td>Additional text 2</td> <td></td> </tr> <tr> <td>Additional text 3</td> <td></td> </tr> </table>				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		E									F	<table border="1"> <tr> <td>Owner</td> <td colspan="2">Projectname TrainingModules</td> <td>Date6/16/2023</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Project path C:\Users\llruoha\Documents\Automation\TrainingModules</td> </tr> <tr> <td colspan="3">Location</td> </tr> <tr> <td>Designed By</td> <td colspan="3">Description 1st</td> </tr> <tr> <td>Checked By</td> <td>Description 2nd</td> <td colspan="2">Language en-US</td> </tr> <tr> <td>Approved By</td> <td>1st View</td> <td>Version</td> <td>Sheet 29 - 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	<table><tr><td>Additional text 4</td><td></td></tr><tr><td>Additional text 5</td><td></td></tr><tr><td>Additional text 6</td><td></td></tr><tr><td>Additional text 7</td><td></td></tr><tr><td>Additional text 8</td><td></td></tr><tr><td>Additional text 9</td><td></td></tr></table>		Additional text 4		Additional text 5		Additional text 6		Additional text 7		Additional text 8		Additional text 9									
Additional text 4																						
Additional text 5																						
Additional text 6																						
Additional text 7																						
Additional text 8																						
Additional text 9																						
B					B																	
C					C																	
D					D																	
E					E																	
F	<table><tr><td>Owner</td><td>Projectname TrainingModules</td><td>Date6/16/2023</td></tr><tr><td rowspan="2">Operator</td><td colspan="2">Project path C:\Users\llruoha\Documents\Automation\TrainingModules</td></tr><tr><td colspan="2">Location</td></tr><tr><td>Designed By</td><td colspan="2">Description 1st</td></tr><tr><td>Checked By</td><td>Description 2nd</td><td>Language en-US</td></tr><tr><td>Approved By</td><td>1st View</td><td>Version</td><td>Sheet 29 - 29</td></tr></table>	Owner	Projectname TrainingModules	Date6/16/2023	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		Location		Designed By	Description 1st		Checked By	Description 2nd	Language en-US	Approved By	1st View	Version	Sheet 29 - 29			F
Owner	Projectname TrainingModules	Date6/16/2023																				
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules																					
	Location																					
Designed By	Description 1st																					
Checked By	Description 2nd	Language en-US																				
Approved By	1st View	Version	Sheet 29 - 29																			

1

2

3

4

A

A

PLC_1 [CPU 1516-3 PN/DP]

PLC alarm text lists

This folder is empty.

B

B

C

C

D

D

E

E

F

F

Owner	Projectname TrainingModules	Date6/16/2023	
Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules		
	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	Ilruoha
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
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PROFINET interface [X1]\General

Name	PROFINET interface_1	Author	Ilruoha
Comment			



PROFINET interface [X1]\Ethernet addresses\Interface networked with

Subnet:	Not connected
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Owner	Projectname	TrainingModules		Date	6/16/2023
Operator	Project path	C:\Users\Ilruoha\Documents\Automation\TrainingModules			
	Location				
Designed By	Description 1st				
Checked By	Description 2nd	Language	en-US		
Approved By	1st View	Version	Sheet 31 - 1		

1		2		3		4	
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		Ilruoha	
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:		---					

Owner		Projectname TrainingModules		Date6/16/2023	
Operator		Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules			
		Location			
Designed By		Description 1st			
Checked By		Description 2nd		Language en-US	
Approved By		1st View		Version	
				Sheet 31 - 2	

	1	2	3	4																																					
A					A																																				
																																									
B	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																																							
C	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	Ilruoha																																					
	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:	---																																							
					D																																				
E	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																																						
F	<table><tr><td>Owner</td><td>Projectname</td><td colspan="2">TrainingModules</td><td>Date</td><td>6/16/2023</td></tr><tr><td rowspan="2">Operator</td><td>Project path</td><td colspan="4">C:\Users\Ilruoha\Documents\Automation\TrainingModules</td></tr><tr><td>Location</td><td colspan="4"></td></tr><tr><td>Designed By</td><td colspan="5">Description 1st</td></tr><tr><td>Checked By</td><td colspan="2">Description 2nd</td><td colspan="3">Language en-US</td></tr><tr><td>Approved By</td><td>1st View</td><td colspan="2">Version</td><td colspan="2">Sheet 31 - 3</td></tr></table>		Owner	Projectname	TrainingModules		Date	6/16/2023	Operator	Project path	C:\Users\Ilruoha\Documents\Automation\TrainingModules				Location					Designed By	Description 1st					Checked By	Description 2nd		Language en-US			Approved By	1st View	Version		Sheet 31 - 3					F
Owner	Projectname	TrainingModules		Date	6/16/2023																																				
Operator	Project path	C:\Users\Ilruoha\Documents\Automation\TrainingModules																																							
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Designed By	Description 1st																																								
Checked By	Description 2nd		Language en-US																																						
Approved By	1st View	Version		Sheet 31 - 3																																					

	1	2	3	4																						
A	<div>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection</div> <table border="1"> <tr> <td>Transmission rate / duplex:</td> <td>Automatic</td> <td>Monitor</td> <td>False</td> </tr> <tr> <td>Enable autonegotiation</td> <td>True</td> <td></td> <td></td> </tr> </table>				Transmission rate / duplex:	Automatic	Monitor	False	Enable autonegotiation	True																
Transmission rate / duplex:	Automatic	Monitor	False																							
Enable autonegotiation	True																									
B	<div>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Boundaries</div> <table border="1"> <tr> <td>End of detection of accessible devices</td> <td>False</td> <td>End of topology discovery</td> <td>False</td> </tr> <tr> <td>End of the sync domain</td> <td>False</td> <td></td> <td></td> </tr> </table>				End of detection of accessible devices	False	End of topology discovery	False	End of the sync domain	False																
End of detection of accessible devices	False	End of topology discovery	False																							
End of the sync domain	False																									
B	<div>PROFINET interface [X1]\Web server access</div> <table border="1"> <tr> <td>Note</td> <td>The Web server must also be activated in the properties of the PLC.</td> <td>Enable Web server using this interface</td> <td>False</td> </tr> </table>				Note	The Web server must also be activated in the properties of the PLC.	Enable Web server using this interface	False																		
Note	The Web server must also be activated in the properties of the PLC.	Enable Web server using this interface	False																							
C	<div>PROFINET interface [X2]\General</div> <table border="1"> <tr> <td>Name</td> <td>PROFINET interface_2</td> <td>Author</td> <td>Ilruoha</td> </tr> <tr> <td>Comment</td> <td></td> <td></td> <td></td> </tr> </table>				Name	PROFINET interface_2	Author	Ilruoha	Comment																	
Name	PROFINET interface_2	Author	Ilruoha																							
Comment																										
C	<div>PROFINET interface [X2]\Ethernet addresses\Interface networked with</div> <table border="1"> <tr> <td>Subnet:</td> <td>Not connected</td> <td></td> <td></td> </tr> </table>				Subnet:	Not connected																				
Subnet:	Not connected																									
C	<div>PROFINET interface [X2]\Ethernet addresses\IP protocol</div> <table border="1"> <tr> <td>IP configuration</td> <td>Set IP address in the project</td> <td>IP address:</td> <td>192.168.1.1</td> </tr> <tr> <td>Subnet mask:</td> <td>255.255.255.0</td> <td>Use router</td> <td>False</td> </tr> </table>				IP configuration	Set IP address in the project	IP address:	192.168.1.1	Subnet mask:	255.255.255.0	Use router	False														
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Subnet mask:	255.255.255.0	Use router	False																							
C	<div>PROFINET interface [X2]\Ethernet addresses\PROFINET</div> <table border="1"> <tr> <td>PROFINET device name is set directly at the device</td> <td>False</td> <td>Generate PROFINET device name automatically</td> <td>True</td> </tr> <tr> <td>PROFINET device name:</td> <td>plc_1.profinet interface_2</td> <td>Converted name:</td> <td>plcxb1.profinetxainterfacexb2022c</td> </tr> <tr> <td>Device number:</td> <td>0</td> <td></td> <td></td> </tr> </table>				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 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																									
D	<div>PROFINET interface [X2]\Time synchronization\NTP mode</div> <table border="1"> <tr> <td>Note</td> <td>Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].</td> <td>Enable time synchronization via NTP server</td> <td>False</td> </tr> <tr> <td></td> <td>IP addresses</td> <td>Server 1</td> <td>0.0.0.0</td> </tr> <tr> <td>Server 2</td> <td>0.0.0.0</td> <td>Server 3</td> <td>0.0.0.0</td> </tr> <tr> <td>Server 4</td> <td>0.0.0.0</td> <td>Update interval</td> <td>10s</td> </tr> </table>				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						
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																							
E	<div>PROFINET interface [X2]\Operating mode</div> <table border="1"> <tr> <td>IO controller</td> <td>True</td> <td>IO system</td> <td></td> </tr> <tr> <td>Device number</td> <td>0</td> <td>IO device</td> <td>False</td> </tr> </table>				IO controller	True	IO system		Device number	0	IO device	False														
IO controller	True	IO system																								
Device number	0	IO device	False																							
E	<div>PROFINET interface [X2]\Advanced options\Interface options</div> <table border="1"> <tr> <td>Call the user program if communication errors occur</td> <td>False</td> <td>Support device replacement without exchangeable medium</td> <td>True</td> </tr> <tr> <td>Permit overwriting of device names of all assigned IO devices</td> <td>False</td> <td>Limit data infeed into the network</td> <td>False</td> </tr> </table>				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														
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																							
F	<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules</td> <td>Date6/16/2023</td> </tr> <tr> <td colspan="3">Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Location</td> </tr> <tr> <td colspan="3">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td>Language en-US</td> </tr> <tr> <td>Checked By</td> <td>1st View</td> <td>Version</td> <td>Sheet 31 - 4</td> </tr> </table>				Owner	Projectname TrainingModules		Date6/16/2023	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version	Sheet 31 - 4
Owner	Projectname TrainingModules		Date6/16/2023																							
	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules																									
Operator	Location																									
	Description 1st																									
Designed By	Description 2nd		Language en-US																							
Checked By	1st View	Version	Sheet 31 - 4																							

	1	2	3	4																						
A	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	Ilruoha																						
	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	Ilruoha																						
	Comment																									
	DP interface [X3]\PROFIBUS address\Interface networked with																									
	Subnet:	Not networked																								
	<table border="1"> <tr> <td rowspan="2">Owner</td> <td colspan="2">Projectname TrainingModules</td> <td>Date6/16/2023</td> </tr> <tr> <td colspan="3">Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Location</td> </tr> <tr> <td colspan="3">Description 1st</td> </tr> <tr> <td>Designed By</td> <td colspan="2">Description 2nd</td> <td>Language en-US</td> </tr> <tr> <td>Checked By</td> <td>1st View</td> <td>Version</td> <td>Sheet 31 - 5</td> </tr> </table>				Owner	Projectname TrainingModules		Date6/16/2023	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules			Operator	Location			Description 1st			Designed By	Description 2nd		Language en-US	Checked By	1st View	Version	Sheet 31 - 5
Owner	Projectname TrainingModules		Date6/16/2023																							
	Project path C:\Users\Ilruoha\Documents\Automation\TrainingModules																									
Operator	Location																									
	Description 1st																									
Designed By	Description 2nd		Language en-US																							
Checked By	1st View	Version	Sheet 31 - 5																							
F																										

	1	2	3	4
A	DP interface [X3]\PROFIBUS address\Parameters Address: 2 Highest address:			
	Transmission speed:			
B	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			
B	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	
C	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			
C	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%			
D	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			
E	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%			
F	Owner		Projectname TrainingModules Date6/16/2023	
	Operator		Project path C:\Users\llruoha\Documents\Automation\TrainingModules	
	Designed By		Location	
	Checked By		Description 1st	
	Approved By		Description 2nd Language en-US	
			1st View Version Sheet 31 - 6	

	1	2	3	4																							
A	<div>System diagnostics\General</div> <div> <div>Activate system diagnostics for this device</div> <div>True</div> <div>Report network faults as maintenance instead of fault</div> <div>False</div> </div>																										
B	<div>PLC alarms\General</div> <div> <div>Central alarm management in the PLC</div> <div>True</div> </div> <div>Web server\General</div> <div> <div>Activate web server on this module</div> <div>False</div> <div>Permit access only with HTTPS</div> <div>True</div> </div> <div>Web server\Automatic update</div> <div> <div>Enable automatic update</div> <div>True</div> <div>Update interval</div> <div>0s</div> </div> <div>Web server\User management</div> <div> <div>User name</div> <div>Everybody</div> <div>User rights</div> </div> <div>Web server\User-defined web pages</div> <div> <div>Application name</div> <div>HTML source path</div> <div>Default HTML page</div> <div>Files with dynamic content</div> <div>Web DB number</div> <div>Fragment DB number</div> </div> <div> <div></div> <div></div> <div>index.htm</div> <div>.htm;.html</div> <div>333</div> <div>334</div> </div> <div>Web server\Overview of interfaces</div> <div> <div>Device</div> <div>Interface</div> <div>Enabled web server access</div> </div> <div> <div>PLC_1</div> <div>PROFINET interface_1</div> <div>False</div> </div> <div> <div>PLC_1</div> <div>PROFINET interface_2</div> <div>False</div> </div> <div>DNS configuration</div> <div> <div>No DNS server address is configured.</div> </div>																										
C	<div>Display\General\Display standby mode</div> <div> <div>Time to standby mode</div> <div>30 minutes</div> </div> <div>Display\General\Energy saving mode</div> <div> <div>Time to energy saving mode</div> <div>15 minutes</div> </div> <div>Display\General\Display language</div> <div> <div>Default language on display</div> <div>English</div> </div> <div>Display\Automatic update</div> <div> <div>Time to update</div> <div>5 seconds</div> </div> <div>Display>Password\Display protection</div> <div> <div>Enable write access</div> <div>True</div> <div>Enable display protection</div> <div>False</div> </div> <div>Display\User-defined logo\</div> <div> <div>User logo activated</div> <div>False</div> <div>Adapt logo</div> <div>False</div> </div> <div> <div>Resolution</div> <div>240x260</div> <div>Company logo</div> <div>---</div> </div>																										
D																											
E																											
F	<table border="1"> <tr> <td>Owner</td> <td colspan="2">Projectname TrainingModules</td> <td>Date6/16/2023</td> </tr> <tr> <td rowspan="2">Operator</td> <td colspan="3">Project path C:\Users\llruoha\Documents\Automation\TrainingModules</td> </tr> <tr> <td colspan="3">Location</td> </tr> <tr> <td>Designed By</td> <td colspan="3">Description 1st</td> </tr> <tr> <td>Checked By</td> <td>Description 2nd</td> <td colspan="2">Language en-US</td> </tr> <tr> <td>Approved By</td> <td>1st View</td> <td>Version</td> <td>Sheet 31 - 7</td> </tr> </table>				Owner	Projectname TrainingModules		Date6/16/2023	Operator	Project path C:\Users\llruoha\Documents\Automation\TrainingModules			Location			Designed By	Description 1st			Checked By	Description 2nd	Language en-US		Approved By	1st View	Version	Sheet 31 - 7
Owner	Projectname TrainingModules		Date6/16/2023																								
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Checked By	Description 2nd	Language en-US																									
Approved By	1st View	Version	Sheet 31 - 7																								

	1	2	3	4
A				
B	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)	
	C	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 daylight saving time	60mins
Time of day\Daylight saving time\Start of daylight saving time				
Selection of the week of		Last	Selection of the weekday at	Sunday
		March		01:00 a.m.
Time of day\Daylight saving time\Start of standard time				
Selection of the week of		Last	Selection of the weekday at	Sunday
		October		02:00 a.m.
D	Protection			
	Level of protection	Full access (no protection)		
	Protection\Connection mechanisms			
	Permit access with PUT/GET communication from remote partner	True		
	Protection\Security event			
	Summarize security events in case of high message volume	True	Length of an interval	20
	Unit	seconds		
	OPC UA\Accessibility of the server			
	Activate OPC UA server	False		
	OPC UA\Accessibility of the client			
E	Activate OPC UA client	False		
	System power supply\General			
	General	Connection to supply voltage L+		
F	Owner		Projectname TrainingModules	
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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
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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
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Runtime licenses\ProDiag\Supervisions

Number of used supervisions	0
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Runtime licenses\ProDiag\Runtime licenses

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

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

Total number of licensed energy objects	0
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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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