UUT Report

Station ID:	IT-W-7303101
Serial Number:	NONE
Date:	mercoledì 28 giugno 2023
Time:	14:14:58
Operator:	administrator
Execution Time:	3820.9145517 seconds
Number of Results:	2309
UUT Result:	**Failed**
Product:	ARI LV
Product type:	ARI LV
Comm type:	COMM1_RS485
Product FW Version:	56010708
Comm FW Version:	42030100
Failure Chain:	

Step	Sequence	Sequence File
Check Lock	General and Architecture and LED	General_test.seq
General and Architecture and LED	MainSequence	General_test.seq

Begin Sequence: MainSequence
(C:\Users\itlavit1\OneDrive - ABB\LabRnD_Shared\TestStand\Sequences\MOD\General_test.seq)

General and Architecture and LED	
Status:	Failed
Module Time:	796.1885492

Begin Sequence: General and Architecture and LED
(C:\Users\itlavit1\OneDrive - ABB\LabRnD_Shared\TestStand\Sequences\MOD\General_test.seq)

Additional Results	
Status:	Done
PopupString:	Check that manual opening and closing of the device shall be possible when the device is power off and the LED is OFF.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that manual opening and closing of the device shall be possible when the device is power ON and in NOT-Active state.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the LED is "Blinking Green" in both active and close configurations.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the LED is "Blinking Green".
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that manual opening and closing of the device shall be possible when the device is power ON and in NOT-

	Active state.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that the LED is "Blinking Green"in both active and close configurations.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that the LED is "Blinking Green".
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that the LED is "Blinking Green"in both active and close configurations.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that manual opening and closing of the device shall be possible when the device is power ON and in Active state.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the LED is "Fix Green"in close active configuration and "Blinking green" in open active configuration.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that the LED is "Blinking Green".
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that manual opening and closing of the device shall be possible when the device is power ON and in Active state.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the LED is "Fix Green"in close active configuration and "Blinking green" in open active configuration.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the LED is "Fix Green".
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that manual opening and closing of the device shall be possible when the device is power ON and in Active state.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the LED is "Fix Green"in close active configuration and "Blinking green" in open active configuration.
Status:	Passed
Additional Results	

Status:	Done
PopupString:	Check that when the ARI is power ON an auto-reclosing command is executed.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that the LED is "Fix Green" after autoreclose.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that the LED was "Blinking Red" during the stand-by state and now is "Fix Red" in Lock State.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that manual opening and closing of the device shall be possible when the device is power ON and in Locked state.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that the LED is "Fix Green"in close active configuration and "Blinking green" in open active configuration.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that the LED is "Fix Red".
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that manual opening and closing of the device shall be possible when the device is power ON and in Locked state.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that ARI reach Lock state after 3 trip due to the NO- reset of reclosing attempts during the power fail before the autorecolsing.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that ARI reach Lock state after 4 trip due to the reset of reclosing attempts during the power fail.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that ARI reach Lock state after 4 trip due to the reset of reclosing attempts during the manual opening/closing.
Status:	Passed
Check Lock	
Status:	Failed
Additional Results	
Status:	Done
PopupString:	Check that ARI reach Lock state after 4 trip due to the reset of reclosing attempts during the manual turning of the switch.
Status:	Failed
Additional Results	
Status:	Done
PopupString:	Check that ARI reach Lock state after the default number of reclosing attempts.
Status:	Passed

End Sequence: General and Architecture and LED

Input-Output	
Status:	Passed
Module Time:	224.7700459

Begin Sequence: I/O
(C:\Users\itlavit1\OneDrive - ABB\LabRnD_Shared\TestStand\Sequences\MOD\General_test.seq)

Additional Results	
Status:	Done
PopupString:	Check that remote closing hasn't appened.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that remote closing hasn't appened.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that remote opening hasn't appened.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that remote opening hasn't appened.
Status:	Passed

Check Outputs	
Status:	Passed
Configuration:	MOD in Active State and MPD OPEN
Output 1:	True
Output 2:	False

Additional Results	
Status:	Done
PopupString:	Check that remote opening worked.
Status:	Passed

Check Outputs	
Status:	Passed
Configuration:	MOD in Active State and MPD OPEN
Output 1:	False
Output 2:	False

Check Outputs	
Status:	Passed
Configuration:	MOD in Active State and MPD OPEN
Output 1:	False
Output 2:	False

Check Outputs	
Status:	Passed
Configuration:	MOD in Active State and MPD HALF OPEN
Output 1:	True
Output 2:	False

Check Outputs	
Status:	Passed

Configuration:	MOD in Active State and MPD HALF OPEN
Output 1:	True
Output 2:	False
Additional Results	
Status:	Done
PopupString:	Check that remote closing worked.
Status:	Passed

Check Outputs stand-by	
Status:	Passed
Configuration:	MOD in Lock State
Output 1:	False
Output 2:	False
Additional Results	
Status:	Done
PopupString:	Check that closing has not worked due to input command but for the auto-reclosing.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check ARI is in Lock state.
Status:	Passed
Check Outputs	
Status:	Passed
Configuration:	MOD in Lock State
Output 1:	False
Output 2:	True
Check Outputs	
Status:	Passed
Configuration:	MOD in Lock State
Output 1:	False
Output 2:	True
Additional Results	
Status:	Done
PopupString:	Check that remote closing not worked.
Status:	Passed

End Sequence: I/O

Power Outage	
Status:	Failed
Module Time:	144.5640518

Begin Sequence: Power Outage
(C:\Users\itlavit1\OneDrive - ABB\LabRnD_Shared\TestStand\Sequences\MOD\General_test.seq)

Check Half open	
Status:	Failed
Additional Results	
Status:	Done
PopupString:	Check that the MOD open automatically the MPD at power On without reclosing.

Status:	Passed

Additional Results	
Status:	Skipped

Additional Results	
Status:	Done
PopupString:	Check that the MOD open automatically the MPD at power On and reclose without dead time.
Status:	Passed

End Sequence: Power Outage

Motor Driver	
Status:	Passed
Module Time:	602.6283798

Begin Sequence: Motor Driver
(C:\Users\itlavit1\OneDrive - ABB\LabRnD_Shared\TestStand\Sequences\MOD\General_test.seq)

MPD MODEL	
Status:	Done
MPD MODEL:	F204

Power Consumption at rest	
Status:	Passed
Measurement:	0.8208
Limits:	
Low:	1
Comparison Type:	LE (<=)
Configuration:	At Rest

Power Consumption during opening	
Status:	Passed
Measurement:	15.12
Limits:	
Low:	25
Comparison Type:	LE (<=)
Configuration:	Opening

Power Consumption during closing	
Status:	Passed
Measurement:	13.152
Limits:	
Low:	25
Comparison Type:	LE (<=)
Configuration:	Closing

Power Consumption at rest after	
Status:	Passed
Measurement:	0.816
Limits:	
Low:	1
Comparison Type:	LE (<=)
Configuration:	At Rest

Power Consumption during auto-closing	
Status:	Passed

Measurement:	13.056
Limits:	
Low:	25
Comparison Type:	LE (<=)
Configuration:	Closing

End Sequence: Motor Driver

Modbus Register check	
Status:	Failed
Module Time:	1615.0205909

Begin Sequence: Modbus Register check
(C:\Users\itlavit1\OneDrive - ABB\LabRnD_Shared\TestStand\Sequences\MOD\General_test.seq)

Internal communication failure	
Status:	Done
Register Value:	OK
Additional Results	
Status:	Done
PopupString:	Check that the remote opening via modbus worked.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that the remote closing via modbus worked.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the remote closing via modbus has not worked due to closing command but for autoreclosing procedure.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that the remote closing via modbus has not worked.
Status:	Passed
input	
Status:	Done
Register Value:	Disable
Pass/Fail Test	
Status:	Passed
Communication	
Status:	Done
Register Value:	Disable
Pass/Fail Test	
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that the remote closing via input has not worked.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the remote closing via modbus has not worked.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the remote closing via input has not worked.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the remote closing via modbus has not worked.
Status:	Passed

input	
Status:	Done
Register Value:	Disable

Pass/Fail Test	
Status:	Passed

Communication	
Status:	Done
Register Value:	Disable

Pass/Fail Test	
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the remote opening via input has not worked.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the remote opening via modbus has not worked.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the remote opening via input has not worked.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the remote opening via modbus has not worked.
Status:	Passed

input	
Status:	Done
Register Value:	Enable

Pass/Fail Test	
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the remote closing via modbus has not worked.
Status:	Passed

Additional Results	

Status:	Done
PopupString:	Check that the remote closing via input worked.
Status:	Passed

Additional Results

Status:	Done
PopupString:	Check that the remote opening via modbus has not worked.
Status:	Passed

Additional Results

Status:	Done
PopupString:	Check that the remote opening via input worked.
Status:	Passed

Communication

Status:	Done
Register Value:	Enable

Pass/Fail Test

Status:	Passed

Additional Results

Status:	Done
PopupString:	Check that the remote closing and opening via input worked.
Status:	Passed

Additional Results

Status:	Done
PopupString:	Check that the remote closing and opening via modbus worked.
Status:	Passed

Additional Results

Status:	Done
PopupString:	Check that the remote closing via input has not worked.
Status:	Passed

Additional Results

Status:	Done
PopupString:	Check that the remote closing via modbus worked.
Status:	Passed

Additional Results

Status:	Done
PopupString:	Check that the remote opening via input has not worked.
Status:	Passed

Additional Results

Status:	Done
PopupString:	Check that the remote opening via modbus worked.
Status:	Passed

Reclosing attempts

Status:	Done
Register Value:	3

Waiting time among reclosing

Status:	Done
Register Value:	3

Neutralization time

Status:	Done
Register	12

Value:	

Additional Results	
Status:	Done
PopupString:	Check that the ARI entered the Lock state with the prefixed settings.
Status:	Passed

Reclosing attempts	
Status:	Done
Register Value:	5

Test Update Reclosing attempts	
Status:	Passed

Waiting time among reclosing	
Status:	Done
Register Value:	5

Test Update Time among reclosing	
Status:	Passed

Neutralization time	
Status:	Done
Register Value:	45

Test Update Neutralization time	
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the ARI entered the Lock state with the new settings.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that the ARI entered the Lock state with the new settings.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check with modbus poll that the maximum settable value of the neutralization time and waiting time before reclosing is 300 and the maximum number of reclosing attempts is 10.
Status:	Passed

Status Breaker	
Status:	Done
Register Value:	Open

Test Status Breaker	
Status:	Passed

Status Breaker	
Status:	Done
Register Value:	Open

Test Status Breaker	
Status:	Passed

Status Breaker	
Status:	Done
Register Value:	Close

Test Status Breaker

Status:	Passed

Status Breaker

Status:	Done
Register Value:	Close

Test Status Breaker

Status:	Passed

Status Breaker

Status:	Done
Register Value:	Open

Test Status Breaker

Status:	Passed

Status Breaker

Status:	Done
Register Value:	Open

Test Status Breaker

Status:	Passed

Tripped
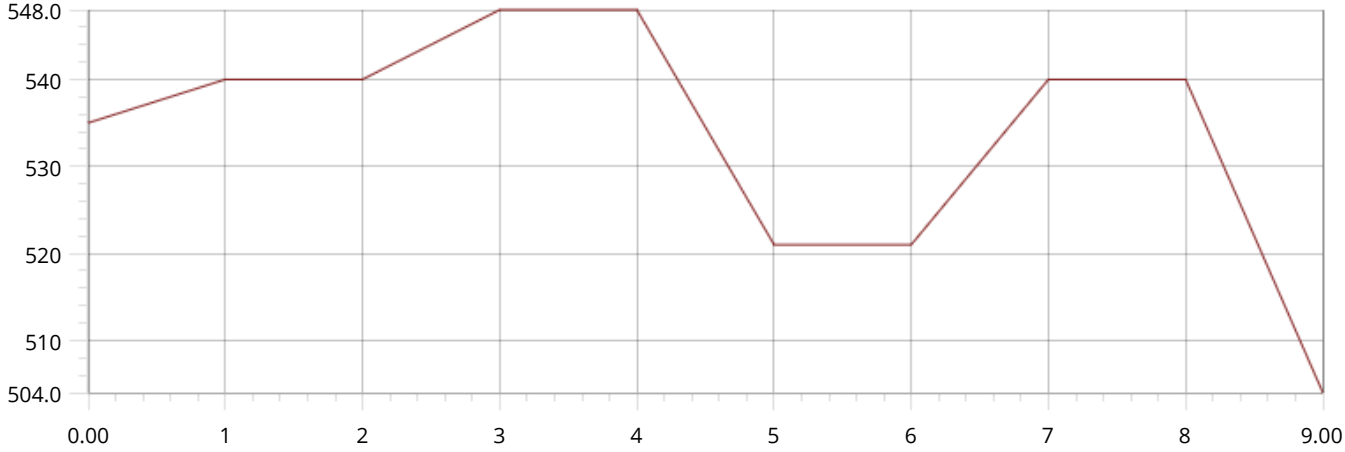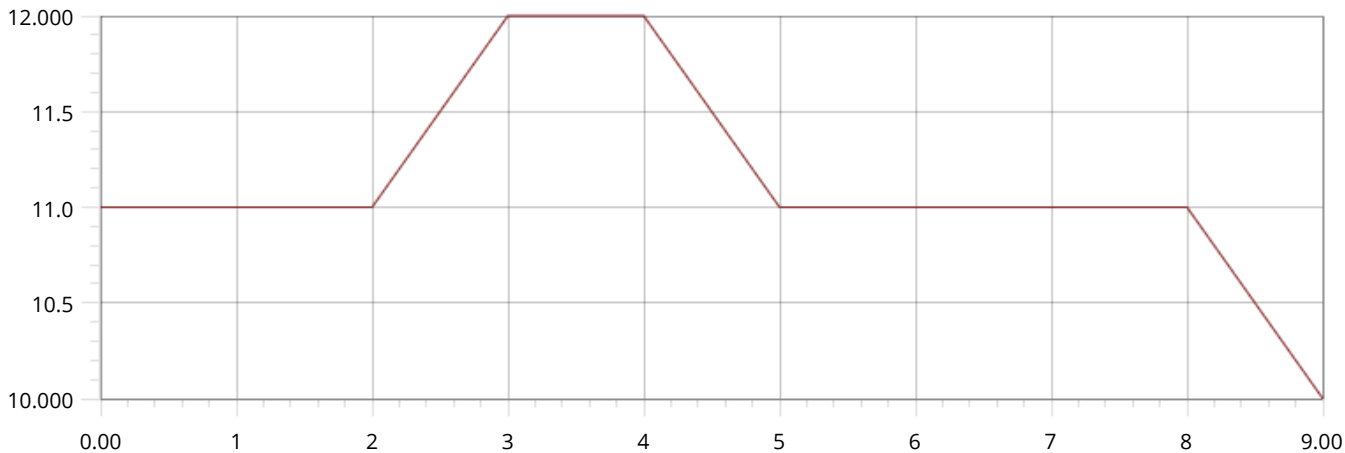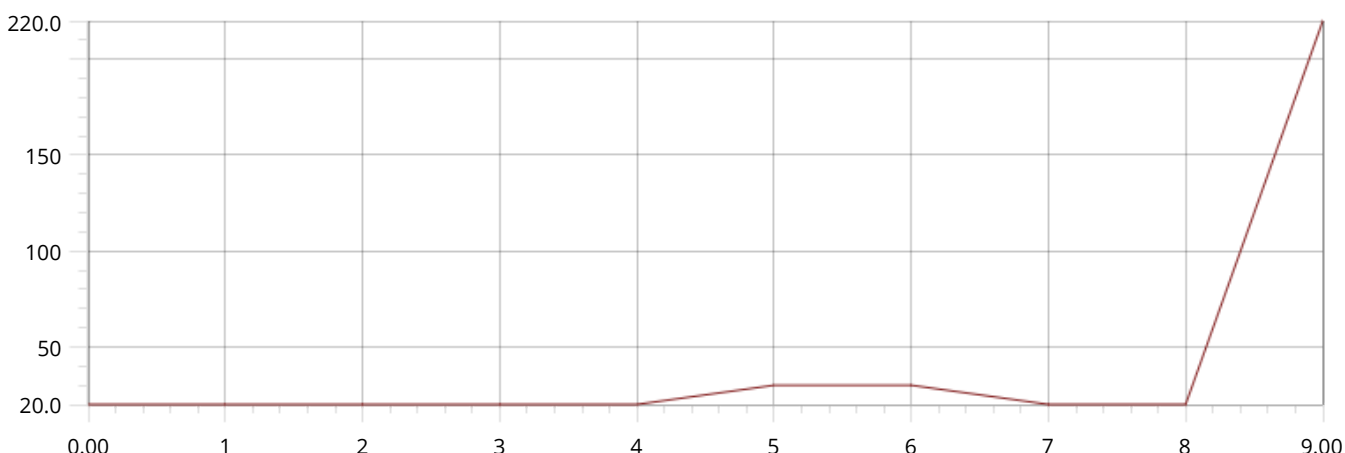
Status:	Done
Register Value:	No Trip

Test Tripped

Status:	Passed

Tripped

Status:	Done
Register Value:	Trip

Test Tripped

Status:	Passed

Tripped

Status:	Done
Register Value:	Trip

Test Tripped

Status:	Passed

Tripped

Status:	Done
Register Value:	Trip

Test Tripped

Status:	Passed

Tripped

Status:	Done
Register Value:	No Trip

Test Tripped

Status:	Passed

TIME Tripped

Status:	Done

Time Tripped before:	000101000000
TIME Tripped	
Status:	Done
Time Tripped after:	000101000010
Time tripped check	
Status:	Passed

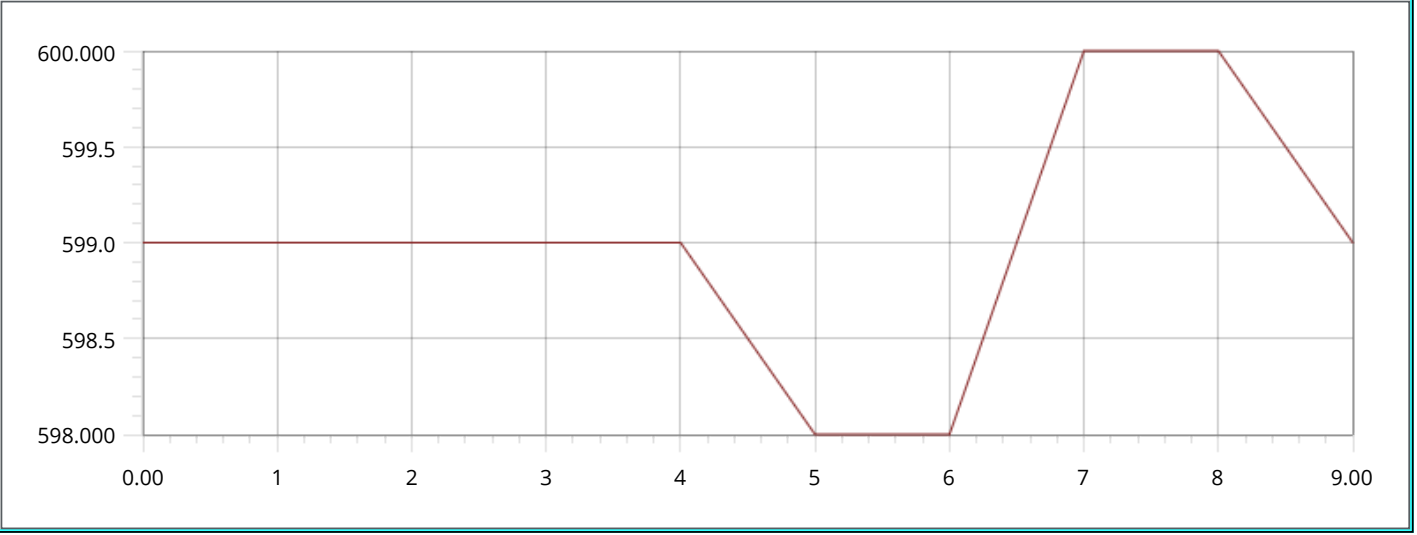**Maneuvre parameters graphs**

Status:	Done

Peak current in mA[0..9]:

Motor torque in mN-m[0..9]:

Time to max torque in ms[0..9]:

Peak torque toggle angle in degree[0..9]:
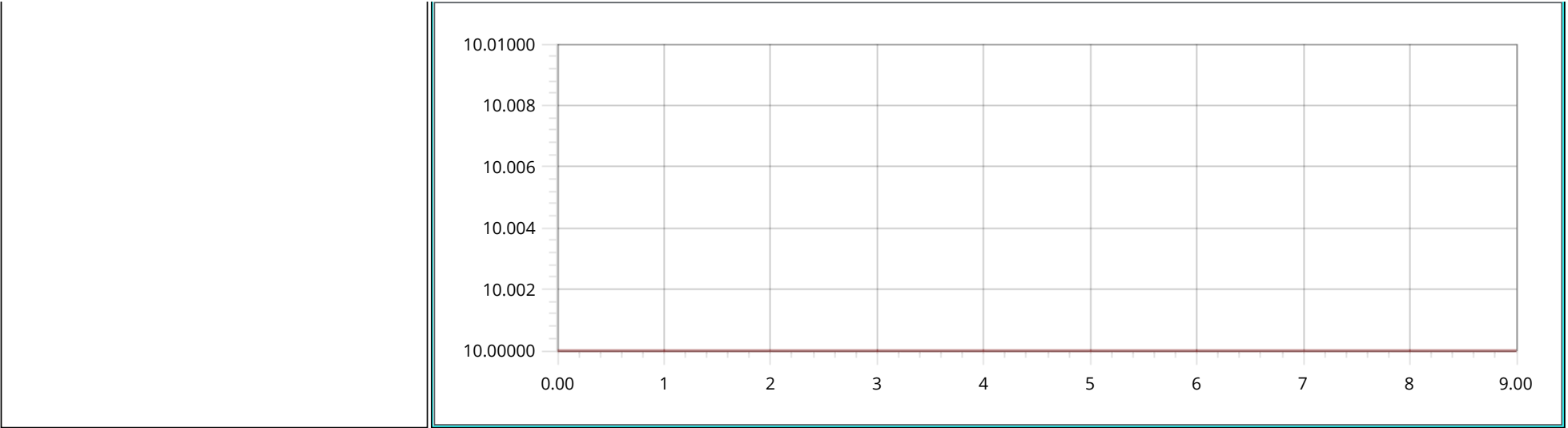
Closing time in ms[0..9]:
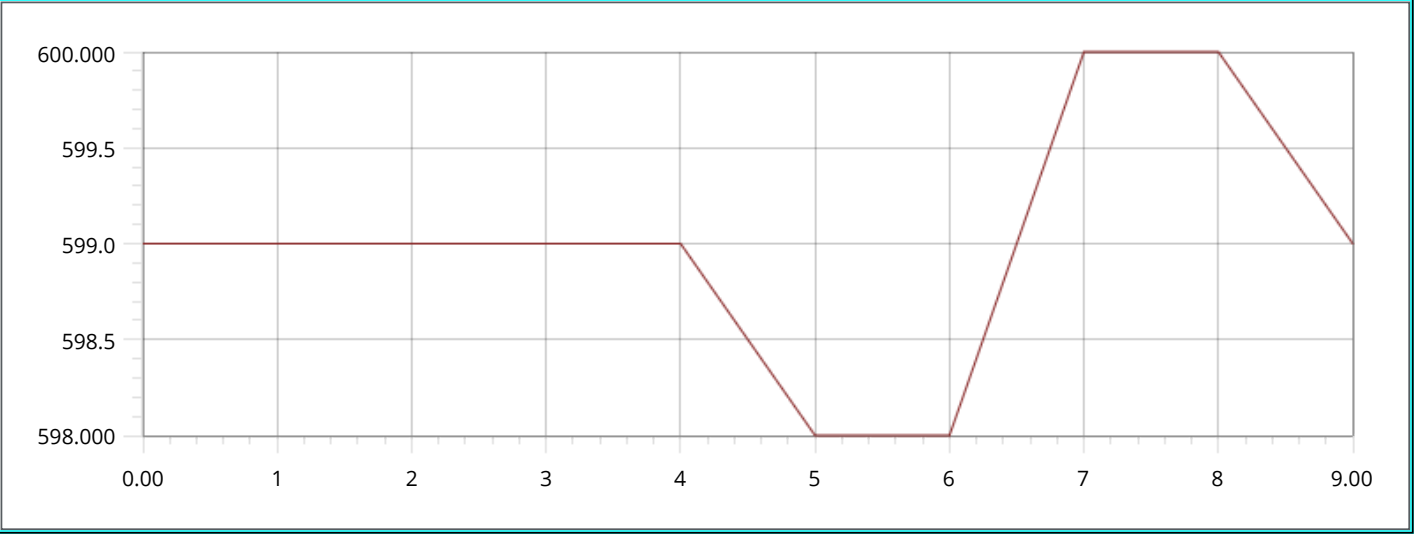
Opening time in ms[0..9]:

Maneuver attempt ongoing	
Status:	Done
Register Value:	No Maneuver

Test Maneuvre ongoing	
Status:	Passed

Parallel Call - Read loop	
Status:	Done
Module Time:	0.0026879

Meneuvre Ongoing test	
Status:	Passed

Maneuvre Ongoing Results	
Status:	Done

Value of the register before the first change:	No Maneuver
Value of the register after the first change:	Maneuver ongoing
Number of changes:	2

Maneuver attempt ongoing

Status:	Done
Register Value:	No Maneuver

Test Maneuvre ongoing

Status:	Passed

Parallel Call - Read loop

Status:	Done
Module Time:	0.0026985

Meneuvre Ongoing test

Status:	Passed

Maneuvre Ongoing Results

Status:	Done
Value of the register before the first change:	No Maneuver
Value of the register after the first change:	Maneuver ongoing
Number of changes:	2

Maneuver attempt ongoing

Status:	Done
Register Value:	No Maneuver

Test Maneuvre ongoing

Status:	Passed

Total Number of maneuvre

Status:	Done
Register Value:	121

Total Number of closing maneuvre

Status:	Done
Register Value:	91

Total Number of maneuver

Status:	Done
Register Value:	141

Test total number maneuvre

Status:	Passed

Total Number of closing maneuver

Status:	Done
Register Value:	101

Test total number closing

Status:	Passed

Total Number of maneuvre

Status:	Done
Register Value:	141

Total Number of closing maneuvre

Status:	Done
Register Value:	101

Total Number of maneuver

Status:	Done
Register Value:	151

Test total number maneuvre	
Status:	Passed
Measurement:	151
Limits:	
Low:	151
Comparison Type:	EQ (==)
Total Number of closing maneuver	
Status:	Done
Register Value:	111
Test total number closing	
Status:	Passed
Measurement:	111
Limits:	
Low:	111
Comparison Type:	EQ (==)

Output 1	
Status:	Done
Register Value:	MOD lever open
Test Output1	
Status:	Passed
Output 2	
Status:	Done
Register Value:	Lock-out state not-active
Test output 2	
Status:	Passed
Input 1	
Status:	Done
Register Value:	Not Active
Test Input 1	
Status:	Passed
Input 2	
Status:	Done
Register Value:	Not Active
Test Input 2	
Status:	Passed
Output 1	
Status:	Done
Register Value:	MOD lever close
Test Output1	
Status:	Passed
Output 2	
Status:	Done
Register Value:	Lock-out state not-active
Test output 2	
Status:	Passed
Input 1	
Status:	Done
Register Value:	Active
Test Input 1	

Status:	Passed
Input 2	
Status:	Done
Register Value:	Not Active
Test Input 2	
Status:	Passed
Output 1	
Status:	Done
Register Value:	MOD lever open
Test Output1	
Status:	Passed
Output 2	
Status:	Done
Register Value:	Lock-out state not-active
Test output 2	
Status:	Passed
Input 1	
Status:	Done
Register Value:	Not Active
Test Input 1	
Status:	Passed
Input 2	
Status:	Done
Register Value:	Active
Test Input 2	
Status:	Passed
Output 1	
Status:	Done
Register Value:	MOD lever open
Test Output1	
Status:	Passed
Output 2	
Status:	Done
Register Value:	Lock-out state not-active

Test output 2	
Status:	Passed

Input 1	
Status:	Done
Register Value:	Not Active
Test Input 1	
Status:	Passed
Input 2	
Status:	Done
Register Value:	Not Active
Test Input 2	
Status:	Passed

Output 1	
Status:	Done
Register Value:	MOD lever open
Test Output1	
Status:	Passed
Output 2	
Status:	Done
Register Value:	Lock state
Test output 2	
Status:	Passed
Input 1	
Status:	Done
Register Value:	Not Active
Test Input 1	
Status:	Passed
Input 2	
Status:	Done
Register Value:	Not Active
Test Input 2	
Status:	Passed

Output 1	
Status:	Done
Register Value:	MOD lever close
Test Output1	
Status:	Passed
Output 2	
Status:	Done
Register Value:	Lock-out state not-active
Test output 2	
Status:	Passed
Input 1	
Status:	Done
Register Value:	Not Active
Test Input 1	
Status:	Passed
Input 2	
Status:	Done
Register Value:	Not Active
Test Input 2	
Status:	Passed

TIME Power Fail	
Status:	Done
Time Power Fail before:	FFFFFFFFFFFF
TIME Power Fail	
Status:	Done
Time Power Fail after:	FFFFFFFFFFFF
Time power fail	

Status:	Failed

LAST DEMANDED COMMAND FAILED PF	
Status:	Done
Register Value:	All command completed
Test last demanded command	
Status:	Passed
LAST DEMANDED COMMAND FAILED PF	
Status:	Done
Register Value:	All command completed
Test last demanded command	
Status:	Passed
Parallel Call - Read loop power fail	
Status:	Done
Module Time:	0.0029308
Meneuvre power fail test	
Status:	Passed
Parallel Call - Read loop power fail	
Status:	Done
Module Time:	0.0019317
Meneuvre power fail test	
Status:	Failed
Parallel Call - Read loop power fail	
Status:	Done
Module Time:	0.0024091
Meneuvre power fail test	
Status:	Failed

Diagnostic register	
Status:	Done
Register Value:	2
Pass/Fail Test	
Status:	Passed
Diagnostic register	
Status:	Done
Register Value:	1
Pass/Fail Test	
Status:	Passed

Diagnostic register	
Status:	Done
Register Value:	2
Pass/Fail Test	
Status:	Passed
Diagnostic register	
Status:	Done
Register Value:	8
Pass/Fail Test	
Status:	Passed

Diagnostic register	
Status:	Done
Register Value:	4
Pass/Fail Test	
Status:	Passed

Product type number ID MOD	
Status:	Done
Register Value:	ARI LOW VOLTAGE
Product type number ID COMM	
Status:	Done
Register Value:	COMM1_RS485
Product Type MOD	
Status:	Done
Product Type MOD:	4152495F4C56FFFFFFFFFFFFFFFFFFFF
Product Type COMM	
Status:	Done
Product Type COMM:	""
Serial Number MOD	
Status:	Done
Serial Number MOD:	FFFFFFFFFFFFFFFFFFFF
Serial Number COMM	
Status:	Done
Serial Number COMM:	FFFFFFFFFFFFFFFFFFFF
FW Version MOD	
Status:	Done
FW Version MOD:	56010708
FW Version COMM	
Status:	Done
FW Version COMM:	42030100
Modbus RTU parameter Slave Address	
Status:	Done
Register Value:	1
Modbus RTU parameter Baud Rate	
Status:	Done
Register Value:	19200
Modbus RTU parameter Parity	
Status:	Done
Register Value:	EVEN

End Sequence: Modbus Register check

Modbus settings check	
Status:	Skipped
COMM LED & Button	
Status:	Skipped
Eprom test	
Status:	Passed
Module Time:	393.5475024

Begin Sequence: Eprom writing
(C:\Users\itlavit1\OneDrive - ABB\LabRnD_Shared\TestStand\Sequences\MOD\General_test.seq)

Additional Results	
Status:	Done
PopupString:	Check that all the funcionalities of the Device are still working.
Status:	Passed

Additional Results	
Status:	Done
PopupString:	Check that all the funcionalities of the Device are still working.
Status:	Passed
Additional Results	
Status:	Done
PopupString:	Check that all the funcionalities of the Device are still working.
Status:	Passed

End Sequence: Eprom writing

Firmware Upgrade	
Status:	Skipped

End Sequence: MainSequence

End UUT Report