## **UUT Report**

Station ID: IT-W-7303101

Serial Number: NONE

Date: lunedì 27 novembre 2023

Time: 16:44:32 Operator: administrator

Execution Time: 613.5495586 seconds

Number of Results: 430
UUT Result: Failed
Product: ARI LV
Product type: ARI LV

Comm type: COMM1\_RS485
Product FW Version: 56010809
Comm FW Version: 56010000

**Failure Chain:** 

Step	Sequence	Sequence File
Check Outputs	Close command and switches open - during command	FMEA.seq
Close command and switches open - during command	MainSequence	FMEA.seq

**Begin Sequence: MainSequence** 

(C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Close command and Switch1 closed - Switch2 open - before command	
Status:	Passed
Module Time:	39.828306

Begin Sequence: Close command and Switch1 closed - Switch2 open - before command (C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Closed - Open - Active - ON - LOG	
Status:	Done
Switch 1:	True
Swtich 2:	False
Comm Close LOG	
Status:	Done
Closed - Open - Active - ON - LOG	
Status:	Done
Switch 1:	True
Swtich 2:	False
Closed - Open - Active - ON - LOG	
Status:	Done
Switch 1:	True
Swtich 2:	False
Read Outputs LOG	
Status:	Done
Output_1_SIG:	False
Output_2_AUX:	True

Additional Results	
Status:	Done
Configuration:	How is the status of LED?
Fix_Green:	FIX GREEN
Additional Results	
Additional Results Status:	Done
	Done How is the status of MDP?

Additional Results	
Status:	Done
Configuration:	Additional notes
Status:	Command not executed. Manual opening and closing are possible

End Sequence: Close command and Switch1 closed - Switch2 open - before command

Open command and Switch1 open - Switch2 closed - before command	
Status:	Passed
Module Time:	37.6145178

Begin Sequence: Open command and Switch1 open - Switch2 closed - before command (C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Open - Closed - Active - ON - LOG	
Status:	Done
Switch 1:	False
Swtich 2:	True
Comm Open LOG	
Status:	Done
Open - Closed - Active - ON - LOG	
Status:	Done
Switch 1:	False
Swtich 2:	True
Closed - Open - Active - ON - LOG	
Status:	Done
Switch 1:	True
Swtich 2:	False
Read Outputs LOG	
Status:	Done
Output_1_SIG:	False
Output_2_AUX:	True

Additional Results	
Status:	Done
Configuration:	How is the status of LED?
Fix_Green:	FIX GREEN
Additional Results	
Status:	Done
Configuration:	How is the status of MDP?

Status: UNLOCKED

Additional Results	
Status:	Done
Configuration:	Additional notes
Status:	Command not executed. Manual opening or closing are possible

End Sequence: Open command and Switch1 open - Switch2 closed - before command

Close command and switches open - during command	
Status:	Failed
Module Time:	140.6292166

Begin Sequence: Close command and switches open - during command (C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Open - Closed - Active - ON - LOG	
Status:	Done
Switch 1:	False
Swtich 2:	True
Comm Close LOG	
Status:	Done
Open - Open - Active - ON - LOG	
Status:	Done
Switch 1:	False
Swtich 2:	False
Check Outputs	
Status:	Failed
Configuration:	Close command and failure switch 1
Output_1_SIG:	False
Output_2_AUX:	True

Additional Results	
Status:	Done
Configuration:	How is the status of LED?
Fix_Red:	FIX RED
Additional Results	
	Done
Status:	Done How is the status of MDP?

Additional Results	
Status:	Done
Configuration:	Additional notes
Status:	Close executed. Timer exipires and opens with a trip. Autoreclosing procedure occurs. It doesn't see the other microswitch so it opens again with a trip. This cycle repeats until the device goes locked state. Manual operations are possible

End Sequence: Close command and switches open - during command

Status:	Passed
Module Time:	76.7039152

Begin Sequence: Close command and switches closed - during command (C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Open - Closed - Active - ON - LOG		
Status:	Done	
Switch 1:	False	
Swtich 2:	True	
Comm Close LOG		
Status:	Done	
Closed - Closed - Active - ON - LOG		
Status:	Done	
Switch 1:	True	
Swtich 2:	True	
Check Outputs		
Status:	Passed	
Configuration:	Close command and failure switch 2	
Output_1_SIG:	False	
Output_2_AUX:	False	

Additional Results		
Status:	Done	
Configuration:	How is the status of LED?	
Blinking_green:	BLINKING GREEN	
Additional Results		
Additional Results		
Additional Results Status:	Done	
Status:	Done How is the status of MDP?	

Additional Results		
Status:	Done	
Configuration:	Additional notes	
Status:	Closing command executed. At the closed position it opens with an opening command. Manual operations are possible	

End Sequence: Close command and switches closed - during command

Open command and switches closed	
Status:	Failed
Module Time:	46.9029755

Begin Sequence: Open command and switches closed - during command (C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Closed - Open - Active - ON - LOG		
Status:	Done	
Switch 1:	True	
Swtich 2:	False	
Comm Open LOG		

Status:	Done	
Closed - Closed - Active - ON - LOG		
Status:	Done	
Switch 1:	True	
Swtich 2:	True	
Check Outputs		
Check Outputs Status:	Failed	
·	Failed  Open command and failure switch 1	
Status:		

Additional Results		
Status:	Done	
Configuration:	How is the status of LED?	
Blinking_green:	BLINKING GREEN	
Additional Results		
Status:	Done	
	Done How is the status of MDP?	

Additional Results	
Status:	Done
Configuration:	Additional notes
Status:	Opening command executed. Manual operations are possible

End Sequence: Open command and switches closed - during command

Open command and switches open	
Status:	Failed
Module Time:	20.9616794

Begin Sequence: Open command and switches open - during command (C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Closed - Open - Active - ON - LOG		
Status:	Done	
Switch 1:	True	
Swtich 2:	False	
Comm Open LOG		
Status:	Done	
Open - Open - Active - ON - LOG		
Status:	Done	
Switch 1:	False	
Swtich 2:	False	
Check Outputs		
Status:	Failed	
Configuration:	Open command and failure switch 2	
Output_1_SIG:	False	
Output_2_AUX:	True	

Additional Results	
Status:	Done
Configuration:	How is the status of LED?
Blinking_green:	BLINKING GREEN
Additional Results	
	Done
Status:	Done How is the status of MDP?

Additional Results	
Status:	Done
Configuration:	Additional notes
Status:	Opening command executed. Manual operations are possible

End Sequence: Open command and switches open - during command

TRIP true	
Status:	Failed
Module Time:	27.5736482

Begin Sequence: TRIP nominal conditions (C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Closed - Open - Active - ON - LOG		
Status:	Done	
Switch 1:	True	
Swtich 2:	False	
Enable Outputs LOG		
Status:	Done	
Open - Closed - Active - ON - LOG		
	Done	
Status:	Done False	
Status:		
Status: Switch 1:	False	

Closed - Open - Active - ON - LOG	
Status:	Done
Switch 1:	True
Swtich 2:	False

Check Outputs	
Status:	Failed
Configuration:	TRIP true
Output_1_SIG:	False
Output_2_AUX:	True

Additional Results	
Status:	Done
Configuration:	How is the status of LED?

Fix_Green:	FIX GREEN
Additional Results	
Status:	Done
Configuration:	How is the status of MDP?
Status:	UNLOCKED

Additional Results	
Status:	Done
Configuration:	How is the status of ARI?
Status:	RECLOSED

Additional Results	
Status:	Done
Configuration:	Additional notes
Status:	"

## **End Sequence: TRIP nominal conditions**

Initial state closed	
Status:	Skipped

TRIP both switches open	
Status:	Failed
Module Time:	38.2887423

Begin Sequence: TRIP both switches open (C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Closed - Open - Active - ON - LOG	
Status:	Done
Switch 1:	True
Swtich 2:	False
Enable Outputs LOG	
Status:	Done
Open - Open - Active - ON - LOG	
Status:	Done
Switch 1:	False
Swtich 2:	False
Disable Outputs LOG	
Status:	Done
Open - Closed - Active - ON - LOG	
Status:	Skipped

Closed - Open - Active - ON - LOG	
Status:	Done
Switch 1:	True
Swtich 2:	False

Check Outputs	
Status:	Failed

Configuration:	TRIP both switches open
Output_1_SIG:	False
Output_2_AUX:	True

Additional Results	
Status:	Done
Configuration:	How is the status of LED?
Fix_Green:	FIX GREEN
Additional Results	
	Done
Status:	Done How is the status of MDP?

Additional Results	
Status:	Done
Configuration:	How is the status of ARI?
open_ari:	OPEN

Additional Results	
Status:	Done
Configuration:	Additional notes
Status:	Trip detected. No reclosing probably due to timing

End Sequence: TRIP both switches open

Initial state closed	
Status:	Skipped

TRIP both switches closed	
Status:	Failed
Module Time:	33.7972102

Begin Sequence: TRIP both switches closed (C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Closed - Open - Active - ON - LOG	
Done	
True	
False	
Enable Outputs LOG	
Done	
Closed - Closed - Active - ON - LOG	
Done	
True	
True	
Disable Outputs LOG	
Done	
Open - Closed - Active - ON - LOG	
Skipped	

Closed - Open - Active - ON - LOG	
Status:	Done
Switch 1:	True
Swtich 2:	False

Check Outputs	
Status:	Failed
Configuration:	TRIP true
Output_1_SIG:	False
Output_2_AUX:	True

Additional Results	
Status:	Done
Configuration:	How is the status of LED?
Fix_Green:	FIX GREEN
Additional Results	
Additional Results	
Additional Results Status:	Done
	Done How is the status of MDP?

Additional Results	
Status:	Done
Configuration:	How is the status of ARI?
open_ari:	OPEN

Additional Results	
Status:	Done
Configuration:	Additional notes
Status:	Trip NOT detected. No reclosing attempt. Manual operations are possible

End Sequence: TRIP both switches closed

Initial state closed	
Status:	Skipped

TRIP - Switch1 open - Switch2 closed	
Status:	Failed
Module Time:	43.7047001

Begin Sequence: TRIP - Switch1 closed - Switch2 Open (C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Closed - Open - Active - ON - LOG		
Status:	Done	
Switch 1:	True	
Swtich 2:	False	
Enable Outputs LOG		
Status:	Done	
Closed - Open - Active - ON - LOG		
Status:	Done	

Switch 1:	True
Swtich 2:	False
Disable Outputs LOG	
Status:	Done

Closed - Open - Active - ON - LOG	
Status:	Done
Switch 1:	True
Swtich 2:	False

Check Outputs	
Status:	Failed
Configuration:	TRIP true
Output_1_SIG:	False
Output_2_AUX:	True

Additional Results	
Status:	Done
Configuration:	How is the status of LED?
Fix_Green:	FIX GREEN
Additional Results	
	Done
Status:	Done How is the status of MDP?

Additional Results	
Status:	Done
Configuration:	How is the status of ARI?
open_ari:	OPEN

Additional Results	
Status:	Done
Configuration:	Additional notes
Status:	Trip NOT detected. No reclosing attempt. Manual operations possible

End Sequence: TRIP - Switch1 closed - Switch2 Open

Switch3 - active/no active	
Status:	Failed
Module Time:	51.7422687

Begin Sequence: Switch3 - active/no active (C:\Users\itlavit1\OneDrive - ABB\LabRnD\_Shared\TestStand\Sequences\MOD\FMEA.seq)

Closed - Open - Active - ON - LOG	
Status:	Done
Switch 1:	True
Swtich 2:	False
Switch 3:	True
Comm Open LOG	

Status:	Done	
Open - Closed - NOActive - ON - LOG		
Status:	Done	
Switch 1:	False	
Swtich 2:	True	
Switch 3:	False	
Check Outputs		
Status:	Failed	
Configuration:	Close command and failure switch 1	
Output_1_SIG:	False	
Output_2_AUX:	True	

Additional Results		
Status:	Done	
Configuration:	How is the status of LED?	
Blinking_green:	BLINKING GREEN	
Additional Results		
Status:	Done	
Configuration:	How is the status of MDP?	
Status:	UNLOCKED	

Additional Results		
Status:	Done	
Configuration:	Additional notes	
Status:	Command executed	
Open - Closed - Active - ON - LOG		
Status:	Done	
Switch 1:	False	
Swtich 2:	True	
Switch 3:	True	
Comm Close LOG		
Status:	Done	
Closed - Open - NOActive - ON - LOG		
Status:	Done	
Switch 1:	True	
Swtich 2:	False	
Switch 3:	False	
Check Outputs		
Status:	Passed	
Configuration:	Close command and failure switch 1	
Output_1_SIG:	False	
Output_2_AUX:	False	

Additional Results	
Status:	Done
Configuration:	How is the status of LED?
Blinking_green:	BLINKING GREEN
Additional Results	
Additional Results Status:	Done
	Done How is the status of MDP?

Additional Decults		
Additional Results		
	Done	
Configuration:	Additional notes	
Status:	Command executed	
Opening maneuvre		
Status:	Skipped	
Closed - Open - NoActive - ON - LOG		
Status:	Done	
Switch 1:	True	
Swtich 2:	False	
Switch 3:	False	
Comm Open LOG		
Status:	Done	
Open - Closed - Active - ON - LOG		
Status:	Done	
Switch 1:	False	
Swtich 2:	True	
Switch 3:	True	
Check Outputs		
Status:	Passed	
Configuration:	Close command and failure switch 1	
Output_1_SIG:	False	
Output_2_AUX:	False	

Additional Results		
Status:	Done	
Configuration:	How is the status of LED?	
Blinking_green:	BLINKING GREEN	
Additional Results		
Status:	Done	
Configuration:	How is the status of MDP?	

Additional Results		
Status:		Done
Configuration:		Additional notes
Status:		Command not executed
Open - Closed - NoActive - ON - LOG		
Status:		Done
Switch 1:		False
Swtich 2:		True
Switch 3:		False
Comm Close LOG		
Status:		Done
Closed - Open - Active - ON - LOG		
Status:		Done
Switch 1:		True
Swtich 2:		False
Switch 3:		True

Check Outputs	
Status:	Failed
Configuration:	Close command and failure switch 1
Output_1_SIG:	False
Output_2_AUX:	True

Additional Results		
Status:	Done	
Configuration:	How is the status of LED?	
Blinking_green:	BLINKING GREEN	
Additional Results		
Additional Results Status:	Done	
	Done How is the status of MDP?	

Additional Results	
Status:	Done
Configuration:	Additional notes
Status:	Command not executed

End Sequence: Switch3 - active/no active

RCCB trip - toggle blocked in closed position	
Status:	Skipped
RCCB trip - toggle blocks during open manoeuvre	
Status:	Skipped
Open command - toggle blocks during open manoeuvre	
Status:	Skipped
Open command - toggle blocked in closed position	
Status:	Skipped
Close command - toggle blocks during close manoeuvre	
Status:	Skipped
Close command - toggle blocked in open position	
Status:	Skipped

End Sequence: MainSequence

**End UUT Report**