

LTU has a known limitation when configuring some automatic tests with Maintenance Tool (TRV00911). This is a result of the pre-setting being different when automatic mode is performed. As a result, the tests in automatic mode does not have a large enough injected current to trigger the short time protection for some settings.

In this situation, the test will show a false FAIL result.

Example screen shot with failed result:

The screenshot shows the Micrologic LTU software interface. The 'TEST automatique' button is selected. A table displays the test results:

Protections	Niveaux courant (A)	Coefficients courants	Temps de déclenchement (s)	Résultat	Intervalle (s)
Court retard	336	2.1 x Ir	0.000	Echec	2.319 4.842
Instantané	600	3.75 x In	0.057	Réussi	0.011 0.083
Long retard	208	1.3 x Ir	16.98	Réussi	13.59 23.41

At the bottom, the configuration parameters are listed:

Ir	tr	Isd	tsd	Ii	IN
160 A	0.500 s	240 A	0.1 s	480 A	OFF
1.xIn	@ 6 Ir	1.5xIr	Pt on	3.xIn	

In this case, do manual test :

The screenshot shows the Micrologic LTU software interface with the 'TEST manuel' button selected. The 'Injection phases' are set to IA 336 A, IB 0 A, and IC 0 A. The 'Durée injection' is set to 25000 ms. A table displays the test results:

Type	Courants (A)	Coefficients	Durée (s)	Résultat	Phase	Intervalle (s)
Reset mémoire t...				OK		
Injection phases	336 ; 0 ; 0	2.1 x Ir	3.51	Court retard	1	2.3191 4.8419

At the bottom, the configuration parameters are listed:

Ir	tr	Isd	tsd	Ii	IN
160 A	0.500 s	240 A	0.1 s	480 A	OFF
1.xIn	@ 6 Ir	1.5xIr	Pt on	3.xIn	

You will have a **right** result on Short Delay (court retard)

Or set li on the trip unit from 3xIn to 3.5xIn and o the test automatically:

The screenshot shows the Micrologic LTU software interface. At the top, the window title is "Micrologic LTU - C:\Micrologic\Utility\LTU_A\Data\ P084030024_Report.ltur". The menu bar includes "Fichier", "Fonctions distantes", "Configuration", "Mise à jour", and "Aide". Below the menu, there is a "Déclencheur en test" section with fields for "Distribution", "Micrologic 5.2 E", "3P", "160 A", "IEC", and "S/N LV430491". The Schneider Electric logo is visible in the top right corner.

The main interface has several tabs: "Identification", "TEST manuel", "TEST automatique", "Simule Alarmes", and "Divers". The "TEST automatique" tab is selected. A button labeled "Lance les tests automatiques" is present. Below this, a table displays test results:

Protections	Niveaux courant (A)	Coefficients courants	Temps de déclenchement (s)	Résultat	Intervalle (s)
Court retard	370	2.31 x Ir	2.67	Réussi	1.813 3.609
Instantané	700	4.37 x In	0.057	Réussi	0.011 0.083
Long retard	208	1.3 x Ir	16.98	Réussi	13.59 23.41

Below the table, there is a section for "Déclencheur prêt à tester" with a small image of the device. At the bottom, a configuration table is shown:

Ir	tr	I _{sd}	t _{sd}	I _i	IN
160. A	0.500 s	240. A	0.1 s	560 A	OFF
1.xIn	@ 6 Ir	1.5xIr	Pt on	3.5xIn	

A red circle highlights the "3.5xIn" value in the "I_i" column of the configuration table, with a red arrow pointing to it.