


Adding TwinSAFE projects to AMI Motors

How to add the twinSAFE Internal Safety Projects to GY and GZ axis

 Difficulty **Hard**

 Duration **15 minute(s)**

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Comments

Introduction

The AMI8xxx-3100 motor series is a TwinSAFE enabled motor. To enable this motor to work with a non-TwinSAFE system, a TWINSAFE project needs to be placed into the Safety Logic circuit on board the motor. This dokit describes this process.

 ...The process of DOWNLOADING the TwinSAFE project will need to be done if the motor is replaced

Prerequisites

- TwinCAT machine project connected, scanned and debugged
- Drive Manager 2 Project installed
- AMI motors connected and powered up
- Latest Device Description (ESI) updates - see Updating Device Description Tables
- AMI Motor TwinSAFE Project from Software Versions Board

For instructions on how to create the AMI Motor twinSAFE project from scratch, see [AMI TwinSAFE Workaround - Safety Project Creation](#)

Step 1 - Create copies of the safety project

Copy the contents of the AMI Motor TwinSAFE project to the BuildNo project folder.

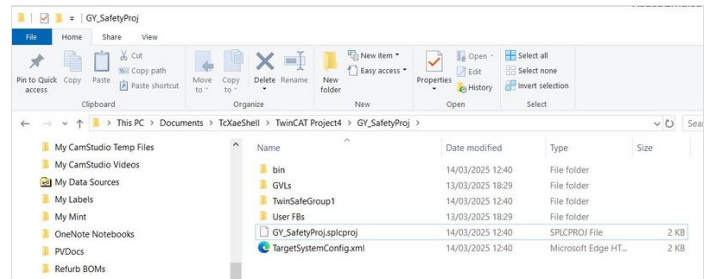
Create a copy for each axis and rename accordingly:

GY_SafetyProj
GZ_SafetyProj

Name	Date modified	Type	Size
.vs	14/03/2025 12:30	File folder	
_Boot	14/03/2025 12:19	File folder	
_Config	14/03/2025 12:19	File folder	
GY_SafetyProj	14/03/2025 12:40	File folder	
GZ_SafetyProj	14/03/2025 12:40	File folder	
PLC_Reset	14/03/2025 12:32	File folder	
tc3Multi	14/03/2025 12:31	File folder	
AMI_SafetyProj.zip	14/03/2025 12:39	Compressed (zipp...	13 KB
Test.project~u	14/03/2025 12:40	~U File	1 KB
Test.sln	14/03/2025 12:19	TcXaeShell Solution	3 KB
TwinCAT Project4.tsproj	14/03/2025 12:19	TSPROJ File	1 KB
TwinCAT Project4.tsproj.bak	05/11/2018 12:55	bak	1 KB

Step 2 - Rename the project filenames

Open each folder and rename the safety PLC project according to the axis

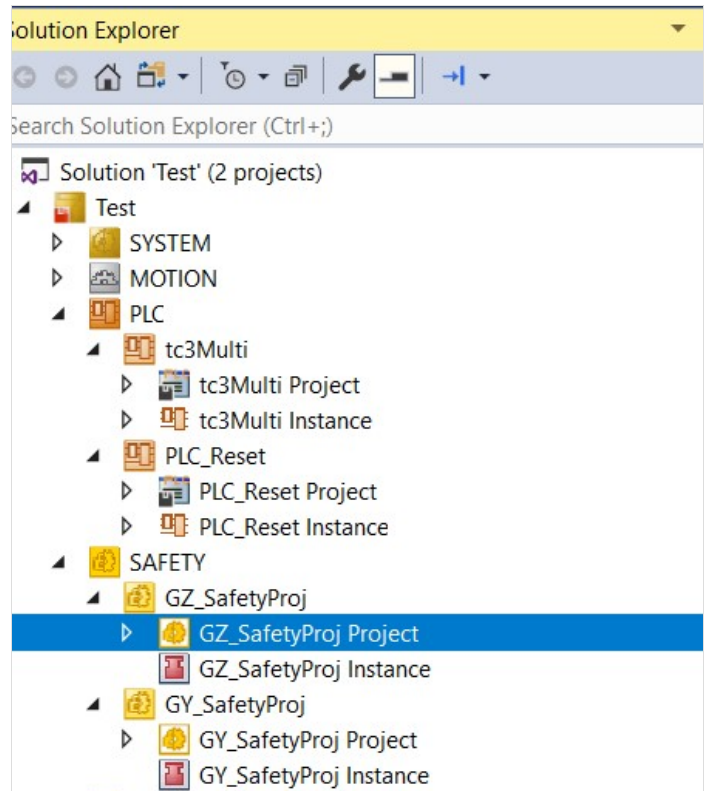
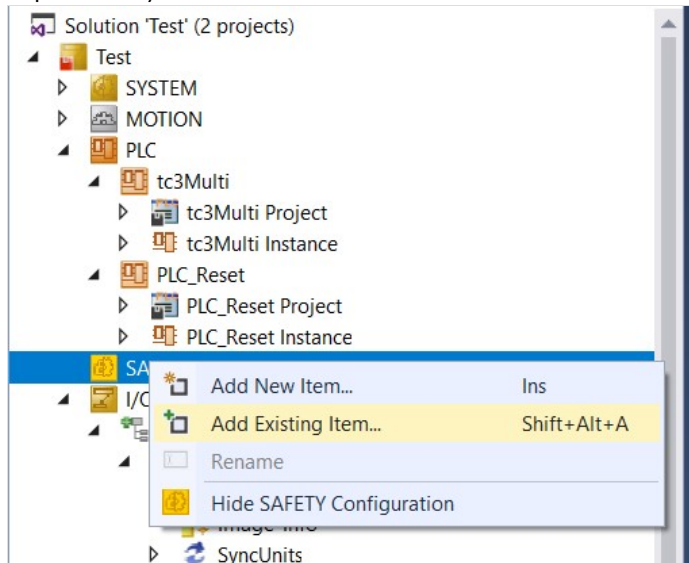


Step 3 - Add to SAFETY

Right click and "Add Existing item"

Navigate Inside the folder and select the "[Axis]_SafetyProj.splcproj"

Repeat for any other axes



Step 4 - Download to Devices

Follow Downloading AMI Motor Safety Project

Step 5 - Repeat

Repeat the whole process for multiple motors