Report Generated by Test Manager

Title: **Test**
Author: **MCBTI**
Date: **30-Sep-2025 14:12:15**

Test Environment

Platform: GLNXA64
MATLAB: (R2025a)

Summary

Name	Outcome	Duration (Seconds)
Results: 2025-Sep-30 14:10:04	3	3.944
MOT_CTRL-MOT-FUN	3	3.708
MOT_CTRL-MOT-FUN-001		1.337
MOT_CTRL-MOT-FUN-002		1.105
MOT_CTRL-MOT-FUN-003		1.07

Results: 2025-Sep-30 14:10:04

Result Type:	Result Set
Parent:	None
Start Time:	30-Sep-2025 14:10:04
End Time:	30-Sep-2025 14:10:08
Outcome:	Total: 3, Passed: 3

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MOT_CTRL-MOT-FUN

Test Result Information

Result Type:	Test Suite Result
Parent:	Results: 2025-Sep-30 14:10:04
Start Time:	30-Sep-2025 14:10:04
End Time:	30-Sep-2025 14:10:07
Outcome:	Total: 3, Passed: 3

Test Suite Information

Name: MOT_CTRL-MOT-FUN

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MOT_CTRL-MOT-FUN-001

Test Result Information

Result Type:	Test Case Result
Parent:	MOT_CTRL-MOT-FUN
Start Time:	30-Sep-2025 14:10:04
End Time:	30-Sep-2025 14:10:05
Outcome:	Passed
Description:	

Esse modelo implementa o teste de relação entre tensão de alimentação da armadura do motor e velocidade angular no eixo.

Test Case Information

Name: MOT_CTRL-MOT-FUN-001
Type: Baseline Test

Logical and Temporal Assessments

Name	Assessment
VoltageSpeedRelationship	At any point in time, whenever (t > 1.0001) is true then, with no delay, (result_sim == true) must be true **REQUIREMENTS** **Description:** MOT_CTRL-MOT-FUN-001 Relação crescente entre tensão e velocidade angular **Document:** MOT_CTRL_MOT.slreqx

Simulation

System Under Test Information

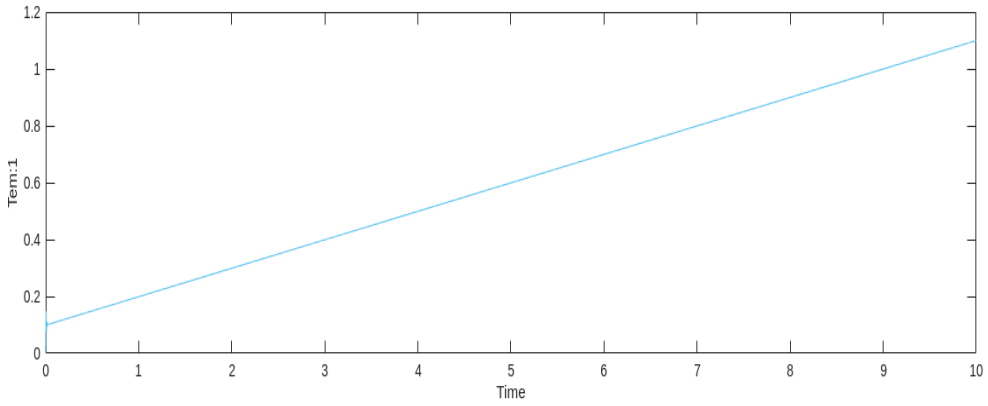
Model:	DcMotorSimulink
Harness:	MOT_CTRL_MOT_FUN_001
Harness Owner:	DcMotorSimulink
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
Start Time:	0
Stop Time:	10
Checksum:	1288080609 30892339 3360627314 3034279594
Simulink Version:	25.1
Model Version:	1.11
Model Author:	tecnicomcbti
Date:	Tue Sep 30 13:39:05 2025
User ID:	tecnicomcbti
Model Path:	/home/tecnicomcbti/cursoMBD/model_based_design_with_real_time_hardware_testing/Tests/DcMotor/MOT_CTRL_MOT_FUN_001.slx
Solver Name:	ode3
Solver Type:	Fixed-Step

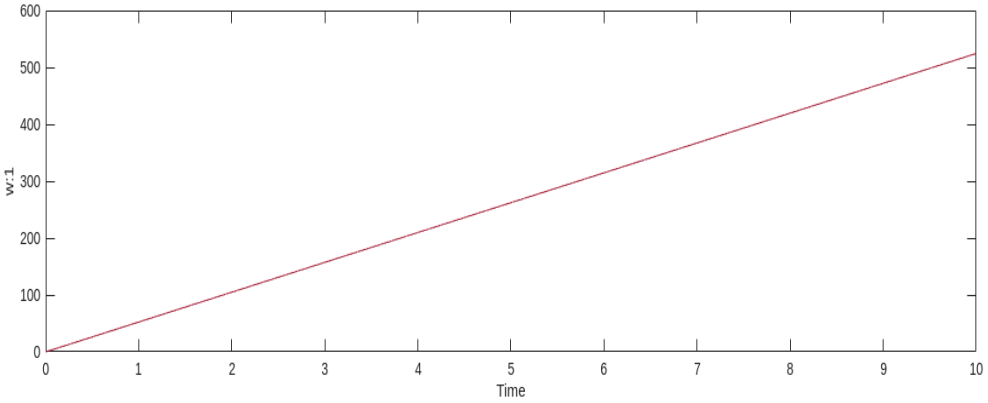
Fixed Step Size:	0.0001
Simulation Start Time:	2025-09-30 14:10:04
Simulation Stop Time:	2025-09-30 14:10:05
Platform:	GLNXA64

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Tem:1	double		0.0001	linear	union	Link
w:1	double		0.0001	linear	union	Link
result	boolean		0.0001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Tem:1	double		0.0001	linear	union
w:1	double		0.0001	linear	union





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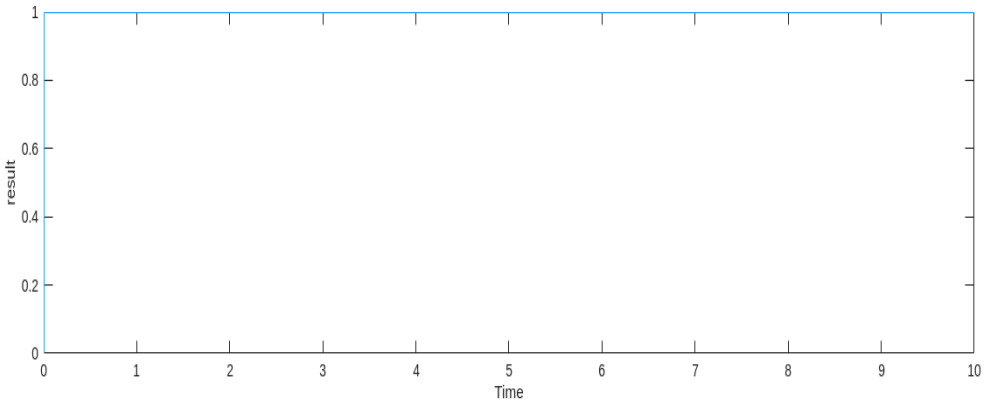
Name	Data Type	Units	Sample Time	Interp	Sync
result	boolean		0.0001	zoh	union



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Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

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MOT_CTRL-MOT-FUN-002

Test Result Information

Result Type:	Test Case Result
Parent:	MOT_CTRL-MOT-FUN
Start Time:	30-Sep-2025 14:10:05
End Time:	30-Sep-2025 14:10:06
Outcome:	Passed
Description:	

Verifica se o tempo de resposta do modelo à um degrau satisfaz as condições estabelecidas no requisito MOT_CTRL-MOT-FUN-002.

Test Case Information

Name:	MOT_CTRL-MOT-FUN-002
Type:	Baseline Test

Logical and Temporal Assessments

Name	Assessment
StepResponse	At any point in time, whenever (t > 1.25) is true then, with no delay, (result_simulation == true) must be true **REQUIREMENTS** **Description:** MOT_CTRL-MOT-FUN-002 Tempo de resposta do motor a um degrau de tensão **Document:** MOT_CTRL_MOT.slreqx

Simulation

System Under Test Information

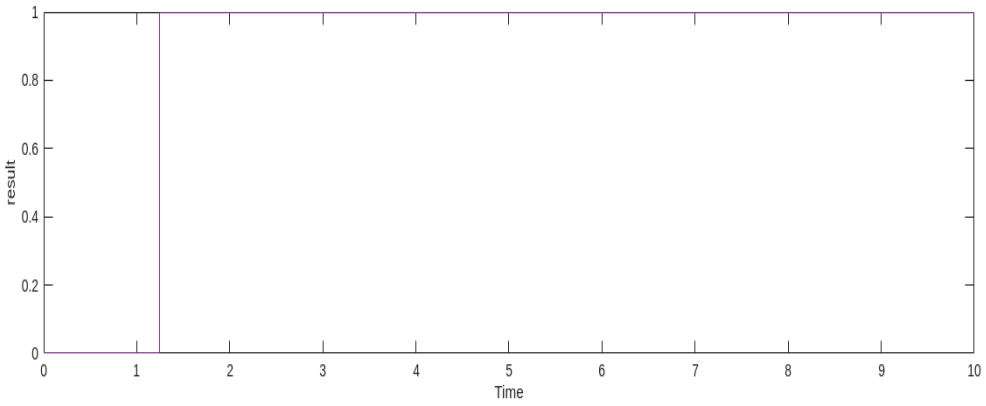
Model:	DcMotorSimulink
Harness:	MOT_CTRL_MOT_FUN_002
Harness Owner:	DcMotorSimulink
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0

Configuration Set:	Configuration1
Start Time:	0
Stop Time:	10
Checksum:	1585255872 1921972682 835149912 839820370
Simulink Version:	25.1
Model Version:	1.19
Model Author:	tecnicomcbti
Date:	Tue Sep 30 14:02:47 2025
User ID:	tecnicomcbti
Model Path:	/home/tecnicomcbti/cursoMBD/model_based_design_with_real_time_hardware_testing/Tests/DcMotor/MOT_CTRL_MOT_FUN_002.slx
Solver Name:	ode3
Solver Type:	Fixed-Step
Fixed Step Size:	0.0001
Simulation Start Time:	2025-09-30 14:10:05
Simulation Stop Time:	2025-09-30 14:10:06
Platform:	GLNXA64

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
result	boolean		0.0001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
result	boolean		0.0001	zoh	union



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Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

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MOT_CTRL-MOT-FUN-003

Test Result Information

Result Type:	Test Case Result
Parent:	MOT_CTRL-MOT-FUN
Start Time:	30-Sep-2025 14:10:06
End Time:	30-Sep-2025 14:10:07
Outcome:	Passed
Description:	

Verifica se a velocidade do motor, em regime estacionário, está dentro dos limites para todas as condições de entrada.

Test Case Information

Name:	MOT_CTRL-MOT-FUN-003
Type:	Baseline Test

Logical and Temporal Assessments

Name	Assessment
CheckSpeedRange	At any point of time, (result_sim == true) must be true **REQUIREMENTS** **Description:** MOT_CTRL-MOT-FUN-003 Limite operacional da velocidade angular **Document:** MOT_CTRL_MOT.slreqx

Simulation

System Under Test Information

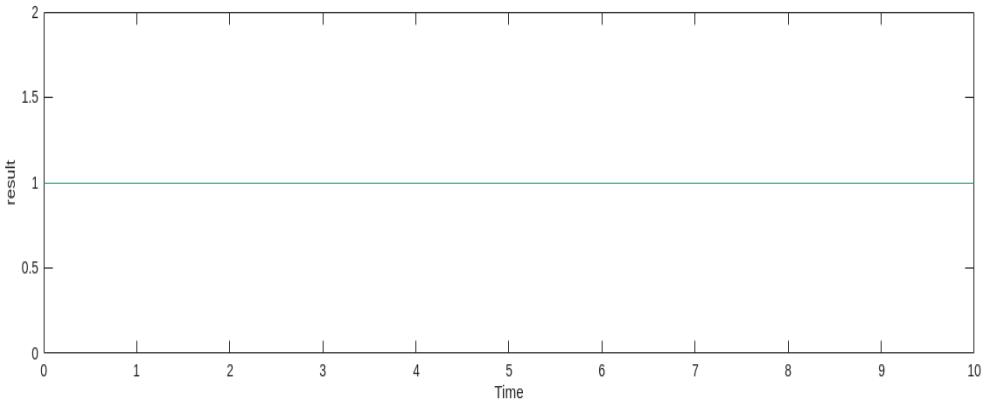
Model:	DcMotorSimulink
Harness:	MOT_CTRL_MOT_FUN_003
Harness Owner:	DcMotorSimulink
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1

Start Time:	0
Stop Time:	10
Checksum:	1549691848 2576098024 1622333415 2151603663
Simulink Version:	25.1
Model Version:	1.16
Model Author:	tecnicomcbti
Date:	Tue Sep 30 14:09:52 2025
User ID:	tecnicomcbti
Model Path:	/home/tecnicomcbti/cursoMBD/model_based_design_with_real_time_hardware_testing/Tests/DcMotor/MOT_CTRL_MOT_FUN_003.slx
Solver Name:	ode3
Solver Type:	Fixed-Step
Fixed Step Size:	0.0001
Simulation Start Time:	2025-09-30 14:10:06
Simulation Stop Time:	2025-09-30 14:10:07
Platform:	GLNXA64

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
result	boolean		0.0001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
result	boolean		0.0001	zoh	union



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Test Logs:
No baseline criteria evaluation performed as no baseline data is available for this test.

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