



Product Service

# EC-Type Examination Certificate

No. M6A 104504 0001 Rev. 01

**Holder of Certificate:** **Roboteq, Inc.**  
7812 E. Acoma Dr. Suite 1  
Scottsdale AZ 85260  
USA

**Product:** **Safety components**

**Model(s):** **Safety function STO as part of the  
Roboteq motor controllers**

<b>Parameters:</b>	Safety Function:	STO (EN 61800-5-2)
	PL e, Cat 3	EN ISO 13849-1:2015
	SIL 3	EN 61508-1:2010
		EN 61508-2:2010
EN 61508-4:2010		
		EN 61800-5-2:2017

This EC Type Examination Certificate is issued according to Article 12(3) b or 12(4) a of Council Directive 2006/42/EC relating to machinery. It confirms that the listed Annex-IV equipment complies with the principal protection requirements of the directive. It refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification. See also notes overleaf.

**Test report no.:** RS93960C

**Valid until:** 2024-12-15

**Date,** 2019-12-16

( Peter Weiß )

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**Annex 1**  
**of the**  
**Report to the Certificate**  
**M6A 104504 0001**  
**Safety function STO as part of the**  
**Roboteq motor controllers**

**Manufacturer:**

**Roboteq, Inc.**  
**7812 E. Acoma Dr., Suite 1**  
**Scottsdale AZ 85260**  
**USA**

**Report No.: RS93960C**  
**Revision 1.3 of the annex, dated 2020-03-18**

**Testing Body:**

**TÜV SÜD Rail GmbH**  
**Barthstraße 16**  
**D-80339 München**

**Certification Body:**

**TÜV Süd Product Service GmbH**  
**Ridlerstraße 65**  
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**Revision Log**

Revision	Name	Date	Changes/History
1.0	K. Leupold	2019-05-14	Initial
1.1	K. Leupold	2019-12-16	New FW for support of brushed DC motors
1.2	K. Leupold	2020-03-18	New variants Sxx(M)
1.3	K. Leupold	2020-03-18	Correction of HW version



## 1 Safety-Certified Components

The following variants are covered by Certificate no. M6A 104504 0001 and the report to the certificate, report no. RS93960C.

The following system components are certified 'safety-related'. This allows the components to be used to process safety critical signals and functions.

## 2 Software

### 2.1 STO Diagnostic Module


Filename	Safety-Firmware-Version
sto.c	1.1
sto.h	1.1

## 3 Hardware

### 3.1 Motor controllers

Description	Model Name	H/W Version
Brushless DC	FBL2360T (E) (S)	2.5c
AC Induction	FIM2360T (E) (S)	
Brushed DC	FDC3260T (E)	
Sensorless	FSM3260TS	
Brushless DC	SBL2360T(S), SBLM2360T(S)	1.1b
AC Induction	SIM2360T(S), SIMM2360T(S)	
Brushed DC	SDC3260T, SDCM3260T	
Sensorless	SSM2360TS, SSMM2360TS	

Munich, 2020-03-18

  
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G. Greil  
 Rail Automation  
 Technical Certifier