



Product Service

CERTIFICATE

No. Z10 16 10 22021 686

Holder of Certificate: Yaskawa Electric Corp.
Tokyo Plant
480 Kamifujisawa, Iruma
Saitama 358-8555
JAPAN

Certification Mark:



Product: Safety components
Safety Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: YI90169T

Valid until: 2021-11-02

Date, 2016-11-28

(Matthias Ramold)



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**CERTIFICATE****No. Z10 16 10 22021 686**

Model(s): **Sigma-V, Sigma-V SD, Sigma-7 Series
Safety Module
For nomenclature see attachment**

Parameters: Rated voltage: 5.05 - 5.30Vdc
Rated current: 0.1 - 0.3A

Tested according to: 2006/42/EC
IEC 61508-1(ed.2) (SIL 2)
IEC 61508-2(ed.2) (SIL 2)
IEC 61508-3(ed.2) (SIL 2)
IEC 61508-4(ed.2) (SIL 2)
EN 61508-1:2010 (SIL 2)
EN 61508-2:2010 (SIL 2)
EN 61508-3:2010 (SIL 2)
EN 61508-4:2010 (SIL 2)
IEC 62061(ed.1);am1;am2 (SILCL 2)
EN 62061:2005/A2:2015 (SILCL 2)
ISO 13849-1:2015 (Cat. 2, PL d)
EN ISO 13849-1:2015 (Cat. 2, PL d)
IEC 61800-3(ed.2);am1
EN 61800-3:2004/A1:2012
IEC 61800-5-1(ed.2)
IEC 61800-5-2(ed.1)
EN 61800-5-1:2007
EN 61800-5-2:2007
EN 61000-6-2:2005
IEC 61326-3-1(ed.1)
EN 61326-3-1:2008
EN 50178:1997

Factory(ies): 48921



ATTACHMENT TO CERTIFICATE
No. Z10 16 10 22021 686

Nomenclature of
Sigma-V, Sigma-V SD, Sigma-7 Series Safety Module

Nomenclature for standard

SGDV- ** * ** A 000 00 *
A B C D E F G H

- A: SGD: Option Card for Sigma-V, Sigma-V SD, Sigma-7 Series SERVOPACK
- B: Function of Board:
 OS: Safety option
- C: Product Control Section:
 A: JAPAN
- D: I/F Specification:
 01: Safety module
- E: Design Order:
 A: Standard
- F: Option Specification of Hardware:
 000: Standard
- G: Option Specification of Software:
 00: Standard
- H: Option Specification of Parameter Setting:
 Any type is available. Refer to 717503093

All of applicable Servo amplifiers are described in the technical reports below.

Sigma-V: YI89883
Sigma-V SD: YF87680T
Sigma-7: YI86386T



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Nomenclature for FT-specification

$\frac{\text{SGDV-}}{\text{A}}$ $\frac{\text{**}}{\text{B}}$ $\frac{*}{\text{C}}$ $\frac{\text{**}}{\text{D}}$ $\frac{\text{A}}{\text{E}}$ $\frac{\text{000}}{\text{F}}$ $\frac{\text{FT}}{\text{G}}$ $\frac{\text{***}}{\text{H}}$

- A: SGD V: Option Card for Sigma-V, Sigma-V SD, Sigma-7 Series SERVOPACK
- B: Function of Board:
 OS: Safety option
- C: Product Control Section:
 A: JAPAN
- D: I/F Specification:
 01: Safety module
- E: Design Order:
 A: Standard
- F: Option Specification of Hardware:
 000: Standard
- G: Option Specification of Software:
 FT: FT specification
- H: Specification of FT-Number:

Group	Specification	Difference from standard model
blank	Standard	-
900	HWBB input signal of Servopack and SRI-A/B inputs of Safety Module are available at same time.	Software is exactly same as SGD V-OSA01AY500AA. Parameters are changed. Hardware is exactly same as standard model.

All of applicable Servo amplifiers are described in the technical reports below.

Sigma-V: YI89883
 Sigma-V SD: YF87680T
 Sigma-7: YI86386T



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Nomenclature for Y-specification

<u>SGDV-</u>	<u>**</u>	<u>*</u>	<u>**</u>	<u>A</u>	<u>Y*****</u>
<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>

- A: SGD V : Option Card for Sigma-V, Sigma-V SD, Sigma-7 Series SERVOPACK
- B: Function of Board:
OS: Safety option
- C: Product Control Section:
A: JAPAN
- D: I/F Specification:
01: Safety module
- E: Design Order:
A: Standard
- F: Specification of Y-Number

Group	Specification	Difference from standard model
Y500AA	HWBB input signal of Servopack and SRI-A/B inputs of Safety Module are available at same time. New SLS-D function added (SLS-D based on position).	Software and Parameters are changed. Hardware is exactly same as standard model.

All of applicable Servo amplifiers are described in the technical reports below.

Sigma-V: YI89883
 Sigma-V SD: YF87680T
 Sigma-7: YI86386T