

EU DECLARATION OF CONFORMITY



dc.eu.dr.s6.v01.en
19.12.2024

Manufacturer: KEB AUTOMATION KG
Südstraße 38
32683 Barntrup – Germany

Product: **Servo Drive COMBIVERT S6**
yyS6xxx - xxxx
yy = 07 ... 14; x = 0-9 or A-Z

The designated product complies with the following directives and regulations of the European Union:

- 2014/30/EU** **EMC Directive**
DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonization of the laws of the Member States relating to electromagnetic compatibility (recast)
- 2006/42/EC** **Machinery Directive**
DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast)
- 2009/125/EC** **Ecodesign Directive**
(EU)2019/1781
DIRECTIVE 2009/125/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energy-related products (recast)
- 2011/65/EU** **RoHS Directive**
DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast)

Further information on compliance with these EU directives and regulations can be found in the annex, which is an integral part of this declaration of conformity. This declaration certifies conformity with the directives and regulations mentioned above, but does not constitute a guarantee of properties. The safety instructions in the supplied product documentation must be carefully observed.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Barntrup, December 19th, 2024

Issued by:

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ppa. Dominik Follmann
Head of R&D Electronics
Signiert von: Dominik Follmann

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i.V./p.p. Mario Radtke
Head of Product Conformity Electronics
Signiert von: Mario Radtke

ANNEX 1

The conformity of the designated product with the provisions of the directives and regulations is demonstrated by full compliance with the following standards:

Directive or Regulation	Harmonized standard
EMC Directive 2014/30/EU	EN 61800-3:2004, EN 61800-3:2004/A1:2012 Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods
RoHS Directive 2011/65/EU	EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Informative standards considered (in parts)

EN IEC 61800-3:2023	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods for PDS and machine tools
EN 61800-9-2:2017	Adjustable speed electrical power drive systems - Part 9-2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications - Energy efficiency indicators for power drive systems and motor starters
EN 61800-5-1:2007, EN 61800-5-1:2007/A1:2017, EN 61800-5-1:2007/A11:2021	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy

ANNEX 2: MD (**S6K*)

The conformity of the designated product with the provisions of the machinery directive is demonstrated by full compliance with the following standards. A certification has been carried out by:

Notified body:	TÜV Rheinland Industrie Service GmbH Am Grauen Stein 51105 Köln – Germany
Notified body No.:	0035
Certificate No.:	01/205/5421.03/22

For any details see the referenced certificate and the revision list.

Codes and Standards

EN 61800-5-2:2017	Adjustable speed electrical power drive systems - Part 5-2: Safety requirements - Functional
EN 61800-5-1:2007 + A1:2017, 4.3, 5.2.3.8, 5.2.6	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy
EN 61800-3:2018	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods
EN 62061:2005 + AC:2010 + A1:2013 + A2:2015	Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems
EN ISO 13849-1:2015	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design
EN 61508 Parts 1-7:2010	Functional safety of electrical/electronic/programmable electronic safety-related systems [...]

ANNEX 3: MD (**S6A* with Safety Modul 1)

The conformity of the designated product with the provisions of the machinery directive is demonstrated by full compliance with the following standards. A certification has been carried out by:

Notified body: TÜV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Köln – Germany

Notified body No.: 0035

Certificate No.: 01/205/5056.03/20

For any details see the referenced certificate and the revision list.

Codes and Standards

IEC 61800-5-2:2016	Adjustable speed electrical power drive systems - Part 5-2: Safety requirements - Functional
IEC 61800-5-1:2016	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy
IEC 61800-3:2017	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods
IEC 61508 Parts 1-7:2010	Functional safety of electrical/electronic/programmable electronic safety-related systems [...]
EN ISO 13849-1:2015	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design
EN 62061:2005 + AC:2010 + A1:2013 + A2:2015	Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems
IEC 61131-2:2017 (in extracts)	Industrial-process measurement and control - Programmable controllers - Part 2: Equipment requirements and tests

ANNEX 4: MD (**S6A* with Safety Modules 2/3)

The conformity of the designated product with the provisions of the machinery directive is demonstrated by full compliance with the following standards. A certification has been carried out by:

Notified body:	TÜV Rheinland Industrie Service GmbH Am Grauen Stein 51105 Köln – Germany
Notified body No.:	0035
Certificate No.:	01/205/5781.00/20

For any details see the referenced certificate and the revision list.

Codes and Standards

IEC 61800-5-2:2016	Adjustable speed electrical power drive systems - Part 5-2: Safety requirements - Functional
IEC 61800-5-1:2016	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy
IEC 61800-3:2017	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods
IEC 61508 Parts 1-7:2010	Functional safety of electrical/electronic/programmable electronic safety-related systems [...]
EN ISO 13849-1:2015	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design
EN 62061:2005 + AC:2010 + A1:2013 + A2:2015	Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems
IEC 61131-2:2017 (in extracts)	Industrial-process measurement and control - Programmable controllers - Part 2: Equipment requirements and tests

ANNEX 5: MD (**S6P* with Safety Modul 5)

The conformity of the designated product with the provisions of the machinery directive is demonstrated by full compliance with the following standards. A certification has been carried out by:

Notified body:	TÜV Rheinland Industrie Service GmbH Am Grauen Stein 51105 Köln – Germany
Notified body No.:	0035
Certificate No.:	01/205/5768.00/20

For any details see the referenced certificate and the revision list.

Codes and Standards

IEC 61800-5-2:2016	Adjustable speed electrical power drive systems - Part 5-2: Safety requirements - Functional
IEC 61800-5-1:2016	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy
IEC 61800-3:2017	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods
IEC 61508 Parts 1-7:2010	Functional safety of electrical/electronic/programmable electronic safety-related systems [...]
EN ISO 13849-1:2015	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design
EN 62061:2005 + AC:2010 + A1:2013 + A2:2015	Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems
IEC 61131-2:2017 (in extracts)	Industrial-process measurement and control - Programmable controllers - Part 2: Equipment requirements and tests
EN 60204-1:2018 (in extracts)	Safety of machinery - Electrical equipment of machines - Part 1: General requirements