

EU DECLARATION OF CONFORMITY



Document No. / month.year: ce_dr_rsafety-s6-g_en.docx / 01.2022

Manufacturer: KEB Automation KG
Südstraße 38
32683 BARNTRUP
Germany

Product type: Inverter type yy**S6**zxx - xxxx
Inverter size yy = 07 up to 14
Control type z = A, K or P
x = any letter or number
Voltage category 230 / 400 V ac

This declaration of conformity is issued under the sole responsibility of KEB Automation KG.

The above given product is in accordance with the following directives of the European Union

Number: **Machine: 2006 / 42 / EU**
Text: Directive on machinery.

Number: **EMC : 2014 / 30 / EU**
Text: Directive on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Number: **Eco Design: 2009 / 125 / EC (incl. 2019 / 1781 / EC)**
Text: Directive on the approximation of the laws of the Member States establishing a framework for the setting of ecodesign requirements for energy-related products

Number: **Hazardous Substances: 2011 / 65 / EEC (incl. 2015 / 863 / EU)**
Text: Directive on the approximation of the laws of the Member States relating on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Further information to this directive is given in the annex.

Responsible: KEB Automation KG
Südstraße 38
32683 BARNTRUP

Place, date Barntrup, 28. December 2021

Issued by:

i. A. W. Hovestadt / Conformance Officer

W. Viele / Technical Manager

The annex is part of this declaration.

This declaration certifies the conformity with the named directives, but does not contain any assurance of quality.

The safety instructions, described in the instruction manual are to be followed.

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Annex 1 – A-Control board

Document-No. / month.year: ce_dr_rsafety-s6-g_en.docx / 01.2022

Product type:	Inverter type	yy S6 zxx - xxxx
	Inverter size	yy = 07 up to 14
	Control type	z = A
		x = any number or letter for different versions
	Voltage category	230 / 400 V ac

The above given product is in accordance with the following directives of the European Union
2006 / 42 / EU Directive on Machinery

Article 2	Definitions:	c) Safety component
Annex V	Safety components:	4. Logic units to ensure safety functions

The conformity is given by complete approval / testing to the following European harmonized standards:

EN - standard	Text:
EN 61800-5-2: 2016	Adjustable speed electrical power drive systems – part 5-2: Safety requirements – Functional Safety
EN 61800-5-1: 2017	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
EN61508 – 1 up to 7: 2010	Functional Safety of electrical, electronic and programmable electronic safety-related systems – Part 1 up to 7
EN 62061: 2005 +AC +A1 +A2	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
IEC 61131-2: 2017	In extracts: Programmable controllers – Part 2: Equipment requirements and tests

The following Safety Boards may be used. The conformity to above requirements within the standards was approved by:

Notified body:	TÜV – Rheinland Industrie Service GmbH
Adress:	Zertifizierungsstelle für Maschinen (NB Nr. 0035) Alboinstrasse 56 D - 12103 Berlin

		No. of Certificate	Dated:	Valid until:
Safety Board Typ 1	xx F6 A1x – xxxx	01/205/5056.03/20	26.05.2020	26.05.2025
Safety Board Typ 3	xx F6 A3x – xxxx	01/205/5781.00/20	28.05.2020	28.05.2025

Details for versions are given in TÜV revision list !

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Annex 2 – K-Control board

Document-No. / month.year: ce_dr_rsafety-s6-g_en.docx / 01.2022

Product type:	Inverter type	yy S6 zxx - xxxx
	Inverter size	yy = 07 up to 14
	Control type	z = K
		x = any number or letter for different versions
	Voltage category	230 / 400 V ac

The above given product is in accordance with the following directives of the European Union
2006 / 42 / EU Directive on Machinery

Article 2, Definitions: c) Safety component
Annex V Safety components: 4. Logic units to ensure safety functions

The conformity is given by complete approval / testing to the following European harmonized standards:

EN - standard	Text:
EN 61800-5-2 : 2017	Adjustable speed electrical power drive systems – part 5-2: Safety requirements – Functional Safety
EN 61800-5-1 : 2007 + A1: 2017 in extracts	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
EN61508 – 1 up to 7: 2010	Functional Safety of electrical, electronic and programmable electronic safety-related systems – Part 1 up to 7
EN 62061: 2005 +AC +A1 +A2	Safety of Machinery – Functional Safety of safety-related electrical, electronic and programmable electronic control systems
EN ISO 13849-1	Safety of Machinery – Safety-related parts of control systems – Part 1: General principles for design

The following Safety Boards may be used. The conformity to above requirements within the standards was approved by:

Notified body:	TÜV – Rheinland Industrie Service GmbH
Adress:	Zertifizierungsstelle für Maschinen (NB Nr. 0035) Alboinstrasse 56 D - 12103 Berlin

	No. of Certificate	Dated:	Valid until:	
Control Board	1KS6 030 – 0002, 1KS6 030 – 0003	01 / 205 / 5421.02 / 19	15.12.2019	15.12.2024

Details for versions are given in TÜV revision list !

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Annex 3 – P-Control board

Document-No. / month.year: ce_dr_rsafety-s6-g_en.docx / 01.2022

Product type:	Inverter type	yyS6zxx - xxxx
	Inverter size	yy = 07 up to 14
	Control type	z = P
		x = any number or letter for different versions
	Voltage category	230 / 400 V ac

The above given product is in accordance with the following directives of the European Union
2006 / 42 / EU Directive on Machinery

Article 2, Annex V	Definitions: Safety components:	c) Safety component 4. Logic units to ensure safety functions
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The conformity is given by complete approval / testing to the following European harmonized standards:

EN - standard	Text:
EN 61800-5-2 : 2016	Adjustable speed electrical power drive systems – part 5-2: Safety requirements – Functional Safety
EN 61800-5-1 : 2016	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
EN61508 – 1 up to 7: 2010	Functional Safety of electrical, electronic and programmable electronic safety-related systems – Part 1 up to 7
EN 62061: 2005 + AC2010 + 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 60204-1: 2018 in extracts	Safety of machinery - Electrical equipment of machines – Part 1: General requirements
IEC 61131-2: 2017 in extracts	In extracts: Programmable controllers – Part 2: Equipment requirements and tests

The following Safety Boards may be used. The conformity to above requirements within the standards was approved by:

Notified body:	TÜV – Rheinland Industrie Service GmbH
Adress:	Zertifizierungsstelle für Maschinen (NB Nr. 0035) Alboinstrasse 56 D - 12103 Berlin

Safety Board Typ 5		No. of Certificate	Dated:	Valid until:
1PS6030-400x 1PS6030-500x		01/205/5768.00/20	21.04.2020	21.04.2025

Details for versions are given in TÜV revision list !

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Annex 4 - General

Document-No. / month.year ce_dr_rsafety-s6-g_en.docx / 01.2022

Product type:	Inverter type	yy S6 zxx - xxxx
	Inverter size	yy = 07 up to 14
	Control type	z = A, K, P
		x = any number or letter for different versions
	Voltage category	230 / 400 V ac

The conformity of the above given product to:

European Directive 2014/35/EU (for electrical equipment designed for use within certain voltage limits) is given by complete approval / testing to the following European harmonized standards:

EN 61800-5-1 / 2007 / 2017	Adjustable speed electrical power drive systems – part 5-1: Safety requirements - Electrical, thermal and energy
EN 61800-2 / 2015	Adjustable speed electrical power drive systems – part 2: general requirements – rating specifications for low voltage adjustable speed a.c. power drive systems

European Directive 2014/30/EU (for electromagnetic compatibility) is given by complete approval / testing to the following European harmonized standards. Base for the complete approval is the definition of a complete PDS (power drive system). For not exceeding the required limits or minimum levels of immunity it is necessary to use the KEB defined filters and observe the given wiring specifications. These will be delivered with every product as part 1 of the documents.

EN 61800-3 / 2018	Adjustable speed electrical power drive systems – part 3: EMC requirements and specific test methods
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European Directive 2009/125/EC (establishing a framework for the setting of ecodesign requirements for energy-related products) is given by complete approval / testing to the regulation 2019/1781/EU

Informativ: 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
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European Directive 2011/65/EU with changes of 2015/863/EU (for restrictions of the use for certain hazardous substances in electrical and electronic equipment) is given by qualification of components and manufacturing process within the ISO 9001 QM system. The necessary information and declarations are documented and memorized.

EN 63000: 2018	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
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The above given product was developed, manufactured and tested within an internal quality management system. This ISO 9001 QM system was approved by:

Notified body:	TÜV - CERT
Adress:	Zertifizierungsstelle des RWTÜV Steubenstrasse 53 D - 45138 Essen
No. of approval	041 004 500
Dated:	20.10.1994
Valid until:	December 2024