EU DECLARATION OF CONFORMITY

Document No. / month.year: ce_dr_rsafety-f6-e-2-9_en.docx / 10.2023

Manufacturer:	KEB Automation KG Südstraße 38 32683 BARNTRUP Germany	
Product type:	Inverter type	yy**F6**zxx - xxxx
	Inverter size	yy = 12 up to 33 (housing 2 – 9)
	Control type	z = A, K; P x = any number or letter for different versions
	Voltage category	230 / 400 V ac

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

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.

Responsible: KEB Automation KG
Südstraße 38
32683 BARNTRUP

Place, date Barntrup, 18. October 2023

Issued by:

i. A. W. Hovestadt / Conformance Officer

W. Wiele / Technical Manager

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

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Product type:	Inverter type	yy**F6**zxx - xxxx
	Inverter size	yy = 12 up to 33 (housing 2 – 9)
	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	Adjustable speed electrical power drive systems – part 5-2: Safety requirements – Functional Safety
EN 60204 – 1	Safety of machinery – Electrical equipment of machines – Part 1: General requirements
EN 62061	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
EN61508 – 1 up to 7	Functional Safety of electrical, electronic and programmable electronic safety-related systems – Part 1 up to 7

The details for version of standard are given in below certificates by number!

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-f6-e-2-9_en.docx / 10.2023

Product type:	Inverter type	yy**F6**zxx - xxxx
	Inverter size	yy = 12 up to 33 (housing 2 – 9)
	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 (2007 + 2017)	Adjustable speed electrical power drive systems – part 5-2: Safety requirements – Functional Safety
EN 60204 – 1	Safety of machinery – Electrical equipment of machines – Part 1: General requirements
EN 62061	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
EN61508 – 1 up to 7	Functional Safety of electrical, electronic and programmable electronic safety-related systems – Part 1 up to 7

The details for version of standard are given in below certificates by number!

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	3KF6 x30 – 0010, 3KF6 x30 – 0011, 3KF6 x30 – 0012, 3KF6 x30 – 0013 3KF6 x30 – 0014 3KF6 x30 – 0015	01 / 205 / 5517.03 / 22	28.11.2022	28.11.2027

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-f6-e-2-9_en.docx / 10.2023	
Product type:	Inverter type	yy**F6**zxx - xxxx
	Inverter size	yy = 12 up to 33 (housing 2 – 9)
	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, 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	Adjustable speed electrical power drive systems – part 5-2: Safety requirements – Functional Safety
EN 60204 – 1	Safety of machinery – Electrical equipment of machines – Part 1: General requirements
EN 62061	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
EN61508 – 1 up to 7	Functional Safety of electrical, electronic and programmable electronic safety-related systems – Part 1 up to 7
IEC 61131 - 2	Programmable Controllers - Functional Safety

The details for version of standard are given in below certificates by number!

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 5	05H6010-0003 05H6010-0004	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 (informative)

Document-No. / month.year: ce_dr_rsafety-f6-e-2-9_en.docx / 10.2023

Product type:	Inverter type	yy**F6**zxx - xxxx
	Inverter size	yy = 12 up to 33 (housing 2 – 9)
	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 the

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 - standard	
EN 61800-5-1	Adjustable speed electrical power drive systems – part 5-1: Safety requirements - Electrical, thermal and energy
EN 61800-2	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.

EN 61800-3: 2018	Adjustable speed electrical power drive systems – part 5-1: EMC requirements and specific test methods

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

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

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