

Assembly instruction and Safety information

Low voltage directive 2014/35/EU

This instruction is intended for manufacturers of end products (OEM) assembling HANNING products into their appliances.

HANNING-products are intended exclusively for distribution to commercial companies which are end product manufacturers (OEM) or their service distributors and must not be made available to end consumers without further ado. The end user is expressly not part of the target group for HANNING-products.

According to regulation 2014/35/EU, this HANNING-product is an electric / electronic equipment and consists basically of one or more electric motors respectively drives and peripheral equipment and possibly electronic circuits.

HANNING delivers customised products to its customers. To the fullest extent permitted by applicable law, and without prejudice to mandatory liability, HANNING shall in no circumstances be liable to the customer to the extent that such liability arises from a modification of the product by the customer after delivery by HANNING.

The product must only be operated within the ranges agreed upon with HANNING.
The operating conditions at the site of operation have to correspond to all data mentioned on the type respectively specification plate.

The assembly, maintenance, repair and disassembly must only be executed by trained specialised staff with suitable tool kit.
The installation and connection of the electrical equipment must be carried out in conjunction with the applicable product drawing and / or the operating instructions. The necessary detailed assembly steps are performed by the end product manufacturer.

The end product manufacturer has to check for his application whether a thermal protection of the electrical equipment against excessive heat (fire danger) is necessary and – in case of need – has to install a suitable thermal protection.

With regard to Enclosure B of DIN EN ISO 12100:2011-03 the potential dangers emanating from this product under certain conditions were determined by means of a risk analysis and specified in the enclosure of this assembly instruction. These potential dangers have to be considered by the end product manufacturer while using the product during the whole product life cycle.

If the product is installed in appliances, machines or installations the end product manufacturer is committed to include the information of this assembly instruction into his operating instructions. It is expressly pointed out that the operating instructions of the end product must contain additional information, related to the end product and suitable for the corresponding user.

The repair of a HANNING-product must only be executed by trained specialised staff with original spare parts. Since the HANNING-products are not aimed at the end user and the latter is not included in the circle of addressees, HANNING accepts no liability for cases in which the end product manufacturer or its service distributor sells a HANNING-product directly to the end user without complying with the regulations to be observed for this purpose. Furthermore, it is also expressly pointed out that an unintended direct delivery of an individual HANNING-product to the end user may lead to a registration obligation of the end product manufacturer (OEM) or its service distributor with the joint body of manufacturers according to the ElektroG (stiftung elektroaltgeräte register (EAR)) for the individually delivered product.

HANNING-products and their accessories may contain metals, connecting cables, permanent magnets, plastics, electronic components, etc.

The disposal of HANNING-products has to be executed according to the applicable national disposal regulations and laws of the respective country through a waste disposal company.



HANNING-drives, -electronic products or separated accumulators / batteries must not be disposed of in the household refuse.

(Translation)

Annex to the assembly instruction

Preamble : For use in appliances, machines and installations the specifications of each product are relevant.

Significant risks occurs during the use of electric energy.

The general potential risks, especially in the sense of human hazards are listed as follows.

Potential Risks	Remarks & usage notes (in assembly instructions)
Appliance- or machinery standards IEC, EN, VDE are not applied by the customer.	The relevant standards for the end product are to be applied in each case.
Electricity	This product has been designed and constructed according to the product-related standards. The installation / assembly of this product in an appliance, a machine or installation is only permitted in accordance with applicable standards, guidelines and regulations. Under certain circumstances a dangerous voltage can also exist in unconnected products (synchronous motor, capacitor, electronics).
Heat, temperature, fire	The intended use heats up the product and therefore it may have to be protected and secured against direct contact. In case of failure, it is not ruled out that the product may burn (except drain pumps). Therefore, it is necessary to take appropriate measures.
Mechanical forces (weight, torque, centrifugal mass, rotation)	This product is to be secured by taking suitable measures against falling down. If applicable, the product has to be protected against contact during operation. This applies especially to moving or rotating parts of the product.
Moving parts (without rotation), crushing	During installation / assembly of this product in an appliance, a machine or installation it is to be considered that crushing (for example) may occur. Therefore, it is necessary to take appropriate measures.
Unintended movements	The product must be protected against unintended movements.
Failure of the bearing mechanism (fixation)	Fixation points and / or bearing mechanism must be executed in such a way, so that no hazards can occur.
Pressure	Pumps and fans put a medium under pressure. If applicable, appropriate measures against all types of hazards from media under pressure must be taken.

Potential Risks	Remarks & usage notes (in assembly instructions)
Moisture (leakage of fluids)	Appropriate measures have to be taken against all types of hazards due to liquids.
Dust (exit of abrasion)	If applicable, appropriate measures have to be taken against all types of hazards from discharge of abrasion in the form of dusts.
Foreign objects (external effect on the product)	The product contains rotating components. Appropriate measures have to be taken against all types of hazards from foreign objects, that generate reaction forces- when they hit rotating components.
Intoxication	The material selection of the product is application oriented. Intoxication is impossible by intended use. For other applications the suitability has to be checked and appropriate measures have to be established to ensure, that non-intended use is excluded.
Failure of components	The type of use of the product in the customer's application generate a load on the components that can cause failure. Precautions have to be taken against hazards that could occur in case of failure of components.
Sharp edges	Appropriate measures have to be taken against all types of hazards from sharp edges.
Misuse (reasonably foreseeable misuse)	Generally, a non-intended use of the product is prohibited.
Other environmental conditions	Our products are not to be used in environments with explosive atmospheres and also not in the immediate vicinity of flammable liquids. Under these conditions products without thermal protection devices can catch fire at a single-fault case. Products with a thermal protection and / or motor protection switch may catch fire in a two-fault case.
Other risks	The manufacturer of an appliance, a machine or installation has to carry out a risk analysis with documentation in accordance with ISO 12100 for his appliance construction and to document, unless exempted thereof by an exceptional rule.