

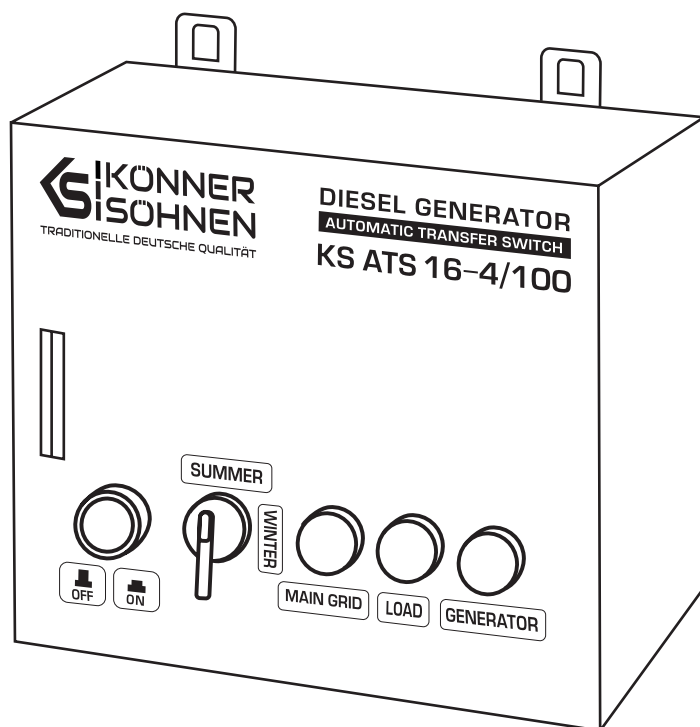
**Please read this manual carefully
before use!**

User manual



AUTOMATIC TRANSFER SWITCH (ATS)

KS ATS 16-4/100





Thank you for choosing **Könnér & Söhnen®** products. This manual provides a brief description of safety requirements, setup procedures, and operating instructions. More information is available in the support section at: **konner-sohnen.com/pages/instructions**

You can also go to the support section and download the manual by scanning the QR code or on the web-site of the official importer of **Könnér & Söhnen®** at **www.konner-sohnen.com**



Please, read this manual carefully before use!

The manufacturer reserves the right to make changes that may not be reflected in this manual, including:

- The manufacturer reserves the right to make changes in the product design, configuration and construction.
- The images and drawings in this manual are for reference only and may differ from the actual components and inscriptions on the products.

Contact information that you are free to use in case of any problems can be found at the end of this manual. All information in this manual is correct to the best of our knowledge at the time of publication. The current list of service centers can be found on the official importer's website at: **www.konner-sohnen.com**



ATTENTION - DANGER!



Failure to follow the recommendations marked with this sign may lead to serious injury or death of the operator or third parties.



IMPORTANT!



Useful information while operating the machine.

ELECTRICAL SAFETY

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The ATS is live. Observe the safety instructions to avoid electric shock. The IP rating of the ATS unit must be strictly observed. The product must not be operated in high humidity. Prevent moisture, wetness, and dust from entering the product, as this increases the risk of electric shock.

All screw terminals must be checked regularly and tightened if necessary, as they can loosen over time (e.g., due to temperature fluctuations). Cables must be checked for burn marks, discoloration, or damaged insulation. Damaged cables must be replaced.



IMPORTANT!



Do not touch live parts of the ATS! The ATS unit must be safely disconnected from the power supply for maintenance work and secured against accidental reconnection.

The ATS is a Class I device. The grounding screw must be permanently and securely connected to the protective earth system. In TN or TT systems (terra-neutral), the grounding screw is connected to the earthing bar. In IT systems (isolated terra), the grounding screw serves for equipotential bonding.

All installations of this product must be carried out by a qualified electrician in accordance with all applicable local electrical standards and regulations.

PERSONAL SAFETY

Do not operate the product when you are tired or under the influence of potent drugs, alcohol or medication. During operation, inattention can cause serious injury. Make sure there are no foreign objects on the product when it is turned on. Do not overload the product; use it for its intended purpose only.



WARNING!



This material is for informational purposes only and is not an instruction how to install or connect equipment to the network. In practice, there are different options for supplying electricity and different rules for its connection. The decision on how to properly connect the equipment in each individual case must be made by a certified electrician who performs the installation and electrical connection of the equipment. The manufacturer is not responsible for improper connection of equipment, and is not responsible for possible material and physical damage that may occur as a result of improper installation, connection or operation of equipment.



PLEASE NOTE!

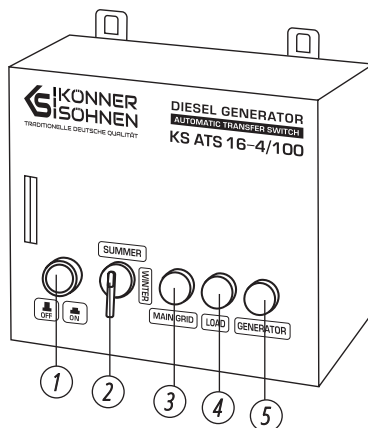


The total power of power consumers connected to the ATS system must not exceed the maximum permissible power for this ATS unit model.

GENERAL VIEW OF THE ATS UNITS

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1. ATS power switch
2. Air heating switch
3. Main grid supply indicator
4. Power output indicator
5. Power supply indicator of generator set



IMPORTANT!



Manufacturer reserves the right to make changes and/or improvements in design, components set and technical attributes without notice and without incurring obligation. The pictures in this manual are schematical and may not match the parameters of original product.

Model	KS ATS 16-4/100	
Consumption	15 W	
Operating voltage	230 V	400 V
Power	23 kW	55 kW
Maximum current	100 A	100 A
Working environment	-50 °C до +45 °C; humidity: ≤ 50%	
Storage environment	-30 °C до +70 °C; humidity: ≤ 50%	
IP protection class	IP44	
Insulation class	AC1.0KV/1min 1mA	
Control cable length	10 m	
Net dimensions (L×W×H)	350×382×192 mm	
Net weight	12 kg	



EC Declaration of Conformity

Nr. 282

Manufacturer:

DIMAX INTERNATIONAL GmbH

Address:

Flinger Broich 203, 40235 Duesseldorf, Germany

We DIMAX INTERNATIONAL GmbH, hereby declare under our sole responsibility that specified below products is in conformity with the relevant Union harmonisation legislation.

Product:

Automatic transfer switch (ATS)

Type / Model:

KS ATS 16-4/100

Applied EC Directives:

2014/35/EC Low Voltage Directive
2014/30/EC Electromagnetic compatibility Directive (EMC)

Applied Standards:

EN 60947-6-1:2005+A1:2014, EN IEC 60947-1:2021
EN IEC 60947-6-1:2023, EN IEC 61000-6-3:2021
EN IEC 61000-6-1:2019
EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022

Issued date:

2026-08-18

Place of issue:

Duesseldorf

Director:

Fomin P.

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International GmbH
Flinger Broich 203, 40235 Duesseldorf
USt-ID DE296177274
konner-sohnen.com

P. Fomin



REACH REGULATION (EC) NO. 1907/2006

The manufacturer confirms that this product complies with the requirements of the REACH Regulation concerning the restriction of substances of very high concern (SVHC). We confirm that supplied parts comply with REACH Regulation (EC) 1907/2006 and contain no SVHC above 0.1%

Based on information received from component suppliers, no SVHC are present in concentrations exceeding the limits defined by the regulation.

This declaration is made on the basis of self-assessment and supplier statements.

ROHS DIRECTIVE 2011/65/EU

This product contains electrical and electronic components that are subject to the RoHS Directive 2011/65/EU.

Based on information and test reports provided by component suppliers, the manufacturer confirms that these components comply with RoHS Directive 2011/65/EU.

This declaration is made on the basis of self-assessment and supplier statements.

OPERATING THE ATS UNIT

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ATS UNIT FUNCTION

The ATS unit automatically starts the generator and switches over power consumers to it when the main power supply is deenergized.



PLEASE NOTE!

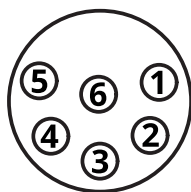


Use the control cable to connect the ATS unit to the power generator. This ATS unit only fits Könnér & Söhnen diesel generators of the KS 16 series with the corresponding ATS connection.

OPERATING PROCEDURE

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ATS CONNECTOR AND ITS CONNECTION



Number	Connection function
1 (red)	Power supply (12V+)
2 (yellow)	Fuel out
3 (green)	Feedback
4 (blue)	Electric starter
5 (black)	GND (-12V)
6 (white)	Air heating

1. The switchover time to the main power supply (MAIN GRID) is approximately 60 seconds after it is restored.
2. The generator continues to run for approximately 60 seconds after the load is transferred to the main power supply and then stops.
3. The heating time of the air heating system in summer mode is 0 seconds, and in winter mode it is 15 seconds.

AUTOMATIC MODE

The start key on the generator control panel should be in the OFF position.

Set the ATS unit main switch to "ON". Set the air heating switch according to the warm (SUMMER) or cold season (WINTER).

When the main power supply is disconnected, the ATS system automatically starts the generator in 10S±1S seconds. After 30 seconds following the generator startup, the system will switch over power consumers to the backup power source (generator).

In case of unsuccessful startup, the ATS system attempts to start the generator three times. If all three attempts are unsuccessful, the ATS unit will stop trying to start the engine and signal an error.

GENERATOR STOP IN THE AUTOMATIC MODE

If the generator was started in automatic mode, to stop it, turn the switch to the "OFF" position and shut down the generator using the ENGINE SWITCH button on the generator. Or press the emergency stop button.

TEST MODE

If it is necessary to start the generator without connecting it to the electrical network, turn the main switch of the ATS unit to the "OFF" position.

POWER SUPPLY OF THE ATS

The ATS unit has a built-in 12V power supply, which is connected to the generator battery via a control cable and supports it with maintenance voltage. The ATS unit is powered by the generator battery when the main power supply fails. The generator battery must be charged regularly (every 3 months) with a full-fledged charger for car batteries if the generator is rarely used.

DISCLAIMER:

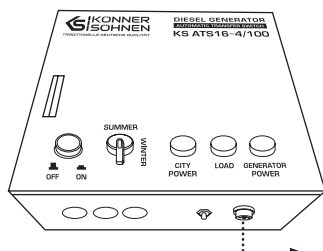
This material is for informational purposes only and does not constitute a manual for installing the equipment or connecting it to the mains, but we strongly recommend that you read the instructions below. Equipment connection must always be carried out by a certified electrician responsible for the installation and electrical connection of the equipment according to local laws and regulations. The manufacturer assumes no liability for improper connection of the equipment or for any material or physical damage that may result from improper installation, connection or operation of the equipment.



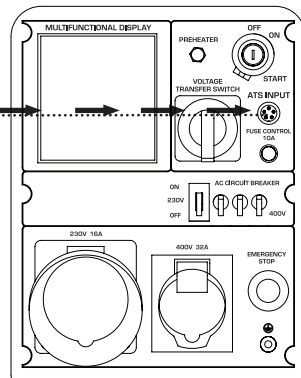
WARNING — DANGER!



Opening of ATS unit and its connection to the mains must be carried out only by qualified specialist. The product is under tension.



Connect the ATS to the generator using the generator automatic start control cable (supplied as a set with ATS)



WIRING DIAGRAMS

6



WARNING — DANGER!



The ATS unit may only be tampered with and connected by a qualified technician. The product is live.

Open the ATS unit door. Cables from the main power source, generator and load (generator supported power consumers) are connected directly to the terminals of the changeover switch. Contact A is for L1, contact B is for L2, contact C is for L3 and contact N is for the neutral conductor. Cable from the generator is connected to the top rear of the changeover switch. Cable from the main power source (MAIN GRID) is connected to the top front of the changeover switch. Cable to the generator supported power consumers is connected to the bottom of the changeover switch. PE cables are connected to the earthing screw. The generator has no bridge between N and PE internally and only supplies IT network. A TN network must be built by earthing the generator's neutral conductor. To do this, you must put a bridge between N and PE (earth screw). The earthing screw must be connected to the earth..



Earthing screw (PE)

Power cables are connected directly to the transfer switch to ensure secure contact.

CONTROLLER MAIN TECHNICAL PARAMETERS KS ATS 16-4/100	
Rated insulation voltage of copper bar, U_i	690V
Rated impulse withstand voltage, U_{imp}	8 kV
Rated operating voltage of copper bar, U_e	AC400V
Use category	AC-33V
Rated operating current of copper bar, I_e	100
Rated short time withstand current	9 kA / 30ms
Transferring time I - II or II - I	2.5 s
Rated operating voltage of the control power supply, U_s	230V AC
Start	20W
Normal	20W
Net weight	3,4 kg

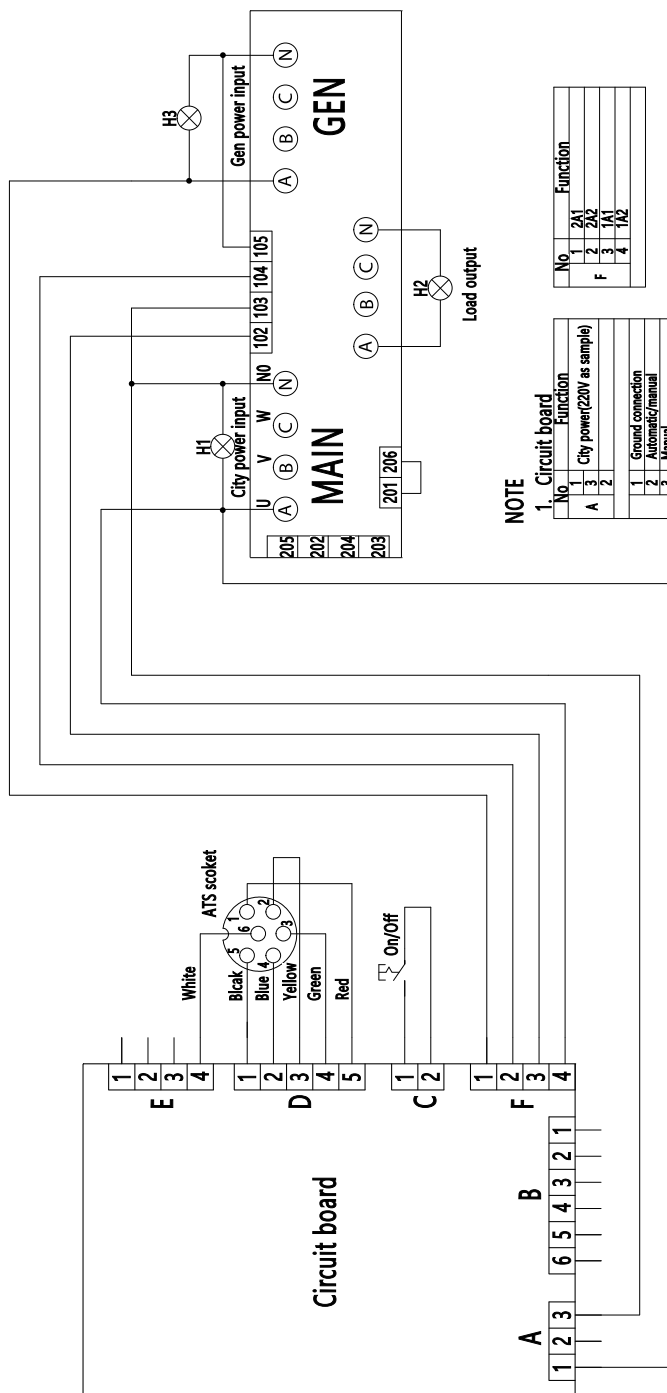
WARRANTY PROVISIONS

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The international manufacturer warranty is 1 year. The warranty period starts from the date of purchase. In cases when warranty period is longer than 1 year according to local legislation please contact your local dealer. The Seller which sells the product is responsible for granting the warranty. Please contact the Seller for warranty. Within the warranty period, if the product fails because of defects in the production process, it will be exchanged on the same product or repaired.

The warranty card should be kept throughout the warranty period. In case of warranty card loss, a second one will not be provided. The customer must provide the warranty card and buyer's check during request for repair or exchange. Otherwise, the warranty service will not be provided. The warranty card, attached to the product during sale, should be correctly and fully completed by the retailer and customer, signed and stamped. In other cases, warranty is not considered as valid.

Provide clean product to the service center. Parts, that must be replaced, are the property of the service center.



NOTE

1. Circuit board

No	Function
1	2A1
2	2A2
3	1A1
4	1A2

2. ATS socket

3. Lights

C	1	Power switch
	2	
D	1	Ground
	2	Start
	3	Fuel out
	4	Signal
	5	Power supply(12V+)

Standby application

No	Function
1	Standby application
2	
3	
4	

CONTACTS

Deutschland:

Hergestellt unter Lizenz und Kontrolle der
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