

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

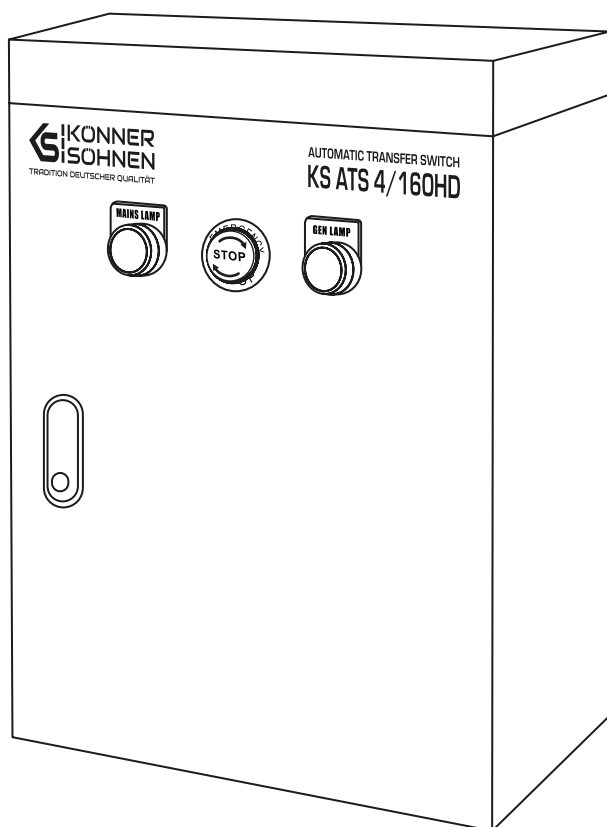
User manual



AUTOMATIC TRANSFER SWITCH (ATS)

KS ATS 4/100HD

KS ATS 4/160HD





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.

GENERAL INFORMATION

1

The KS ATS 4/100HD and KS ATS 4/160HD ATS units are designed for diesel generators with the integrated DATAKOM D-300 or DATAKOM D-500 controller and a corresponding connection.

The controller integrated into the generator monitors the main power source, starts the generator in the event of a power outage, stops the generator after the main power supply is restored, and controls the ATS transfer switch in AUTO mode via the control cable.

The ATS unit has a 4-pole transfer switch with a motor drive that can be manually switched if required.

ELECTRICAL SAFETY

2

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.

SPECIFICATIONS

3

Model	KS ATS 4/100HD	KS ATS 4/160HD
Consumption	< 25 W	< 25 W
Operating voltage	230V/400V	230V/400V
Current (max) 400 V	100A	160A
Control cable	–	3 m
Working environment	-20-45 °C humidity: ≤ 50%	
Storage environment	-30-70 °C humidity: ≤ 50%	
IP protection class	IP44	
Insulation class	AC1.0KV/1min 1mA	
Net dimensions (L×W×H)	500×300×600 mm	500×255×600 mm
Net weight	22,3 kg	27 kg



EC Declaration of Conformity

Nr. 275

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 4/100HD, KS ATS 4/160HD
Applied EC Directives: 2014/35/EC Low Voltage Directive
 2014/30/EC Electromagnetic compatibility Directive (EMC)
Applied Standards: EN 60947-1:2007+A2:2014
 EN60947-6-1:2005/A1:2014
 EN 60947-1:2007+A2:2014
 EN60947-6-1:2005/A1:2014, EN IEC 61000-6-2,
 IEC 61000-6-4; EN IEC 61000-3-2, EN IEC 61000-3-3

Issued date: 2026-08-31
Place of issue: Duesseldorf
Director: Fomin P.

DIMAX
 International GmbH
 Flinger Broich 203, 40235 Duesseldorf
 USt-ID DE296177274
 kconner-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.

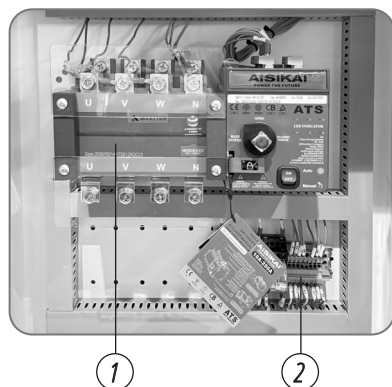
This declaration is made on the basis of self-assessment and supplier statements.

ROHS DIRECTIVE 2011/65/EU

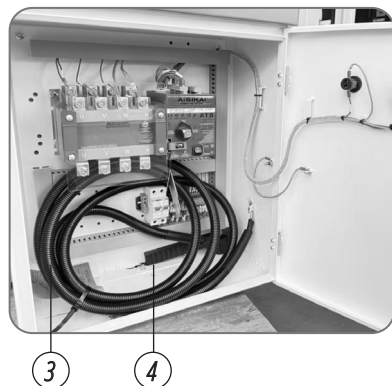
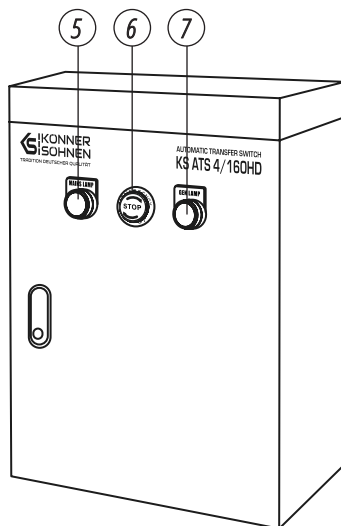
This product contains electrical and electronic components that are subject to the RoHS Directive 2011/65/EU.

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.



1. Transfer switch
2. Control cable connection
3. Control cable
4. Removable handle
5. "Main input" indicator light
6. Emergency stop switch
7. "Gen input" indicator light



CONTROLLER MAIN TECHNICAL PARAMETERS

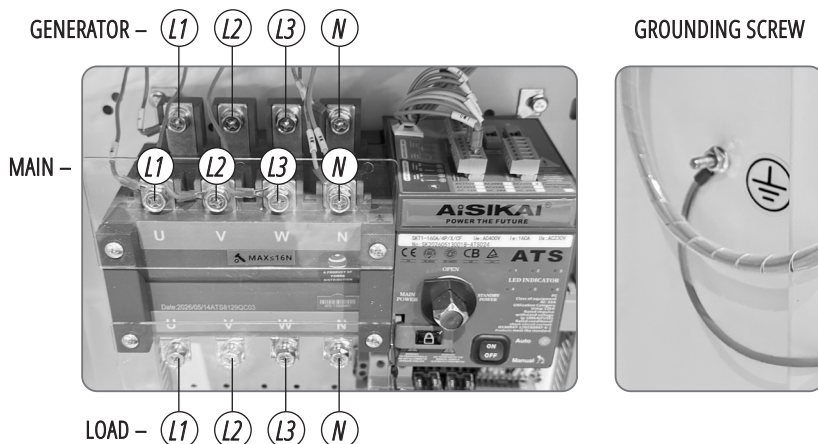
5

Conventional thermal current I_{th}	100A	160A
Rated insulation voltage of copper bar, U_i	1000 V	1000 V
Rated impulse withstand voltage, U_{imp}	12 kV	12 kV
Rated operating voltage of copper bar, U_e	440 V	440 V
Use category	AC-33A	AC-33A
Rated operating current of copper bar, I_e	100	160
Rated making capacity	10I _e (10 times the rated current)	
Rated breaking capacity	10I _e (10 times the rated current)	
Rated limit short-circuit current	100 kA	100 kA
Rated short time withstand current	50 kA	50 kA
Transferring time I - II or II - I	1.2 s	1.2 s
Rated operating voltage of the control power supply, U_s	Standard product: AC220V, Optional: DC24V, AC110V, AC280V, Correct working range: 85% U_s ~ 115% U_s	
Start	< 200 W	< 300 W
Normal	< 25 W	< 25 W
Net weight (4-pole)	3.5 kg	5.5 kg

CONNECTIONS

6

Power cables from the main power source (e.g., public power grid), from the generator, and to the sub-distribution board with emergency power consumers are connected directly to the transfer switch:





The ATS control connection for the generator is located at the bottom right:

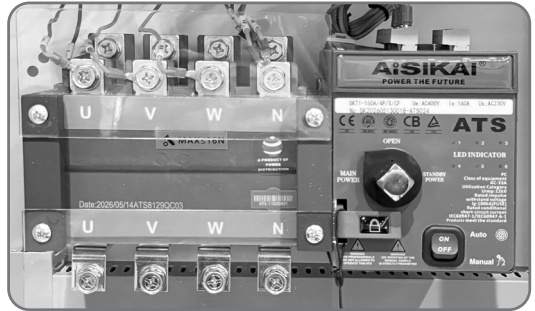
- N.** Neutral conductor from generator
- 90.** Control signal for switching to generator
- 91.** Control signal for switching to main power source
- NM.** Neutral conductor from main power source
- UM.** Phase conductor L1 from main power source
- VM.** Phase conductor L2 from main power source
- WM.** Phase conductor L3 from main power source

FUNCTION OF THE CHANGEOVER SWITCH

7

The transfer switch is equipped with a motor drive that is controlled by the generator controller in AUTO mode. The motor drive moves the transfer switch to the OPEN position (load disconnected) when the emergency stop switch is pressed in AUTO mode.

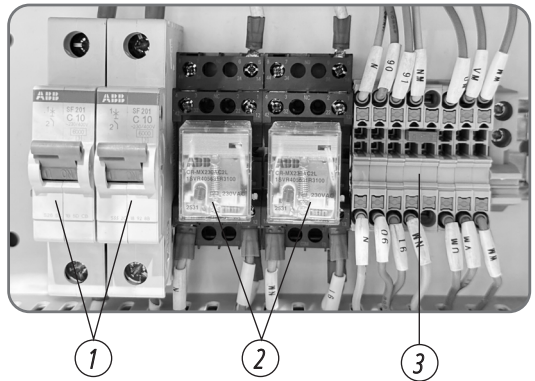
The motor drive can be activated and deactivated using the AUTO-MANUAL switch.



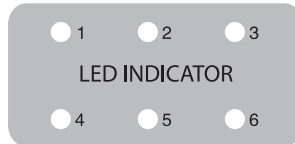
To manually switch the transfer switch, first set the AUTO-MANUAL switch to MANUAL and then operate the transfer switch using the supplied handle.

The motor drive is externally controlled via contacts 90 and 91 of the ATS connection. The motor drive circuits are protected by circuit breakers.

1. Circuit breaker
2. Control relay
3. ATS connection terminal



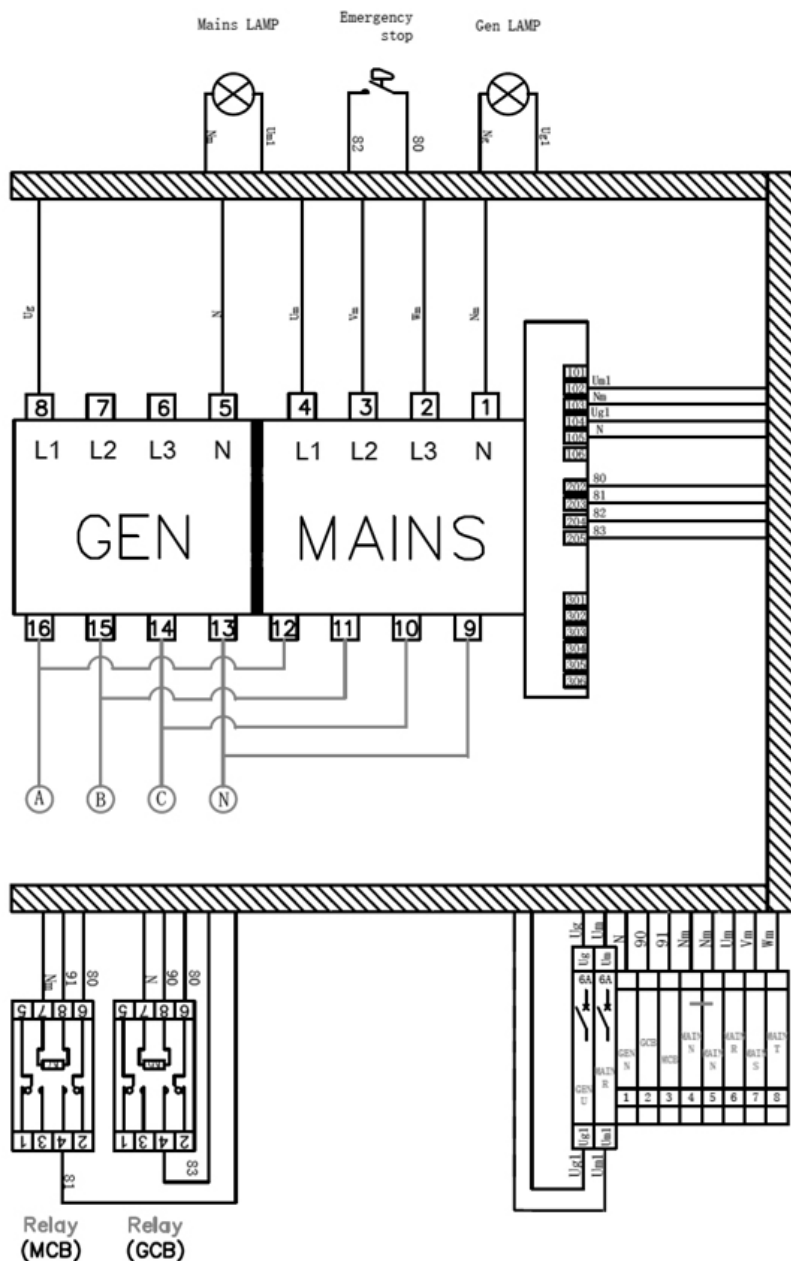
The transfer switch has 6 status LEDs:



DESCRIPTION:

Model	№1	№2	№3	№4	№5	№6
X TYPE SKT1-125-250A	Line I control power supply is powered-on. (There is AC 220V between the access points 102 and 103 of No.1 terminal)	Line I control power supply fuse is normal.	Line I control relay is normal (the relay is mounted on the internal circuit board and No.3 light is used for this function, only when No.4 light is not lit up).	Line II control power supply is powered-on (There is AC 230V between the access points 104 and 105).	Line II control power supply fuse is normal.	125A-250A switch, key lock or button is in the AUTO position (the key lock or the button is mounted on the front side of the switch).
X TYPE SKT1-400-3200A	Line I control power supply is powered-on. (There is AC 220V between the access points 102 and 103 of No.1 terminal)	Line I control power supply fuse is normal.	Line I control relay is normal (the relay is mounted on the internal circuit board).	Line II control power supply is powered-on (There is AC 230V between the access points 104 and 105).	Line II control power supply fuse is normal.	Line II control relay is normal (the relay is mounted on the internal circuit board).

CIRCUIT DIAGRAM OF THE ATS UNIT:

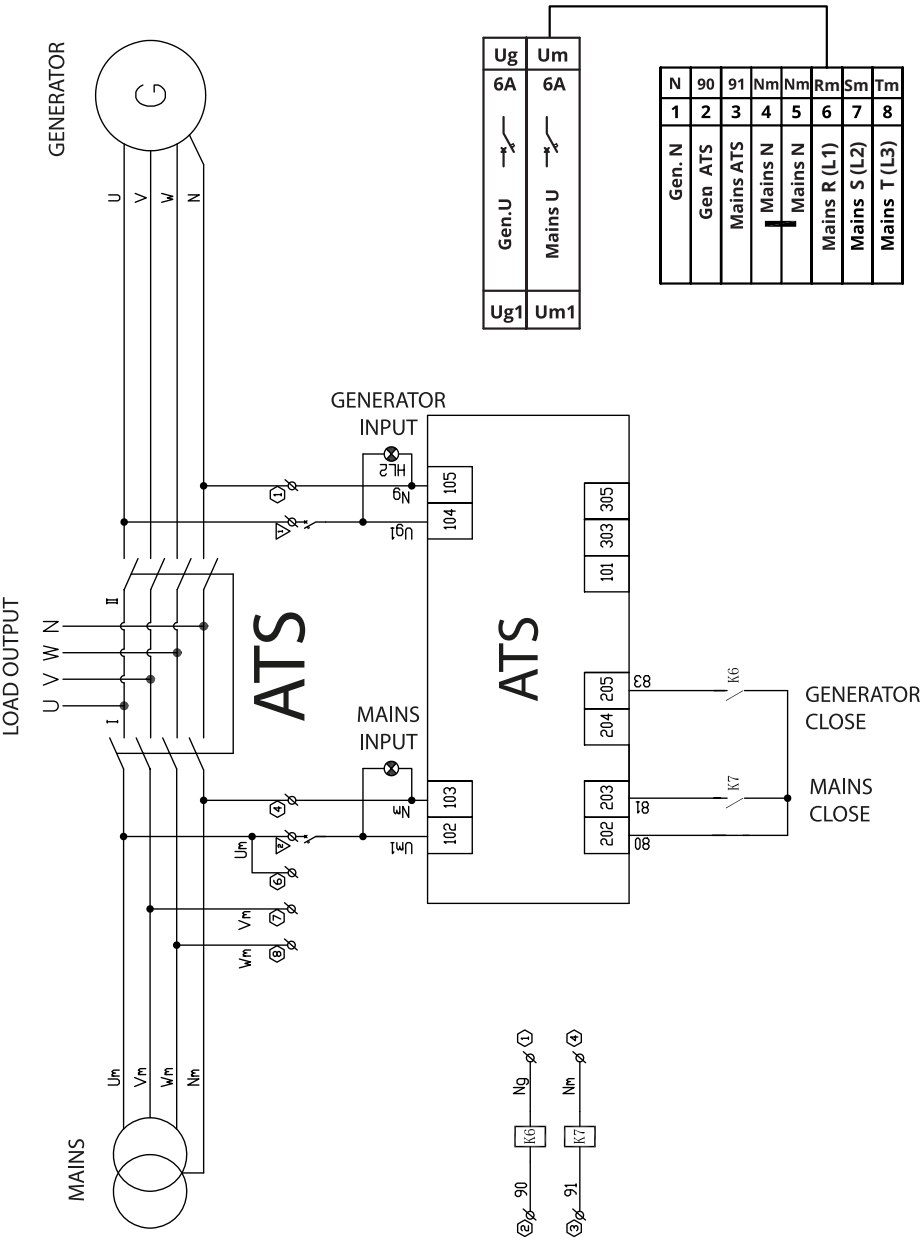




THREE-PHASE ATS (100A)

ATS CONNECTION TERMINAL

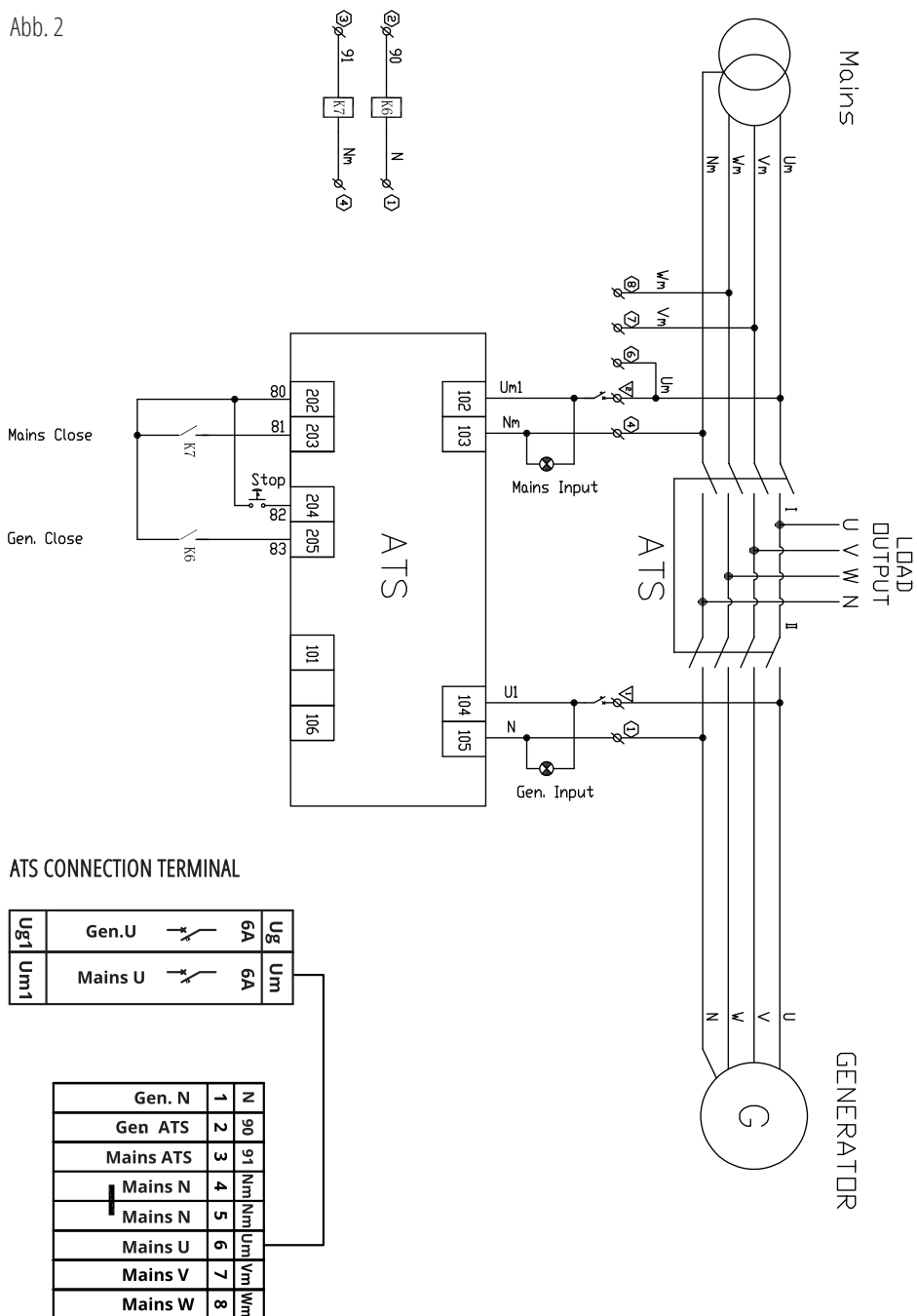
Abb. 2





THREE-PHASE ATS (160A)

Abb. 2



CONTACTS

Deutschland:

Hergestellt unter Lizenz und Kontrolle der
DIMAX International GmbH.

Importeur und Vertreter in Deutschland:
DIMAX International GmbH, Flinger Broich 203,
40235 Düsseldorf, Deutschland. Produziert in VRC.

amazon@dimaxgroup.com

www.konner-sohnen.com

European Union:

Manufactured under license and control of DIMAX
International GmbH, Flinger Broich 203, 40235
Duesseldorf, Germany.

Importer and representative in Netherlands DIMAX
International Poland Ltd, Południowa 8 st,
05-830 Stara Wieś, Poland. Assembled in PRC.

amazon@dimaxgroup.com

www.konner-sohnen.com

The United Kingdom:

Innovation Trade Ltd., 5th Floor, 167-169 Great Portland
Street, London, W1W 5PF, sales.uk@dimaxgroup.com

Technical support

support.uk@dimaxgroup.de

www.konner-sohnen.uk

France:

Fabrique sous licence et contrôle de DIMAX
International GmbH, Flinger Broich 203, 40235
Düsseldorf, Allemagne.

Importateur et représentant en France et en Belgique
DIMAX International Poland Ltd, Południowa 8 st,
05-830 Stara Wieś, Pologne. Assemblé en RPC.

amazon@dimaxgroup.com

www.konner-sohnen.fr

España:

Fabricado bajo licencia y control de DIMAX
International GmbH, Flinger Broich 203, 40235
Düsseldorf, Alemania.

Importador y representante en España de DIMAX
International Poland Ltd, Południowa 8 st,
05-830 Stara Wieś, Polonia.

Ensamblado en la República Popular China.

amazon@dimaxgroup.com

www.konner-sohnen.es

Polska:

Wyprodukowano na licencji i pod kontrolą DIMAX
International GmbH, Flinger Broich 203,
40235 Duesseldorf, Niemcy.

Importer i przedstawiciel w Polsce:

DIMAX International Poland Sp.z o. o. ul. Południowa 8,
05-830 Stara Wieś, Polska. Zmontowany w CRL.

amazon@dimaxgroup.com

www.konner-sohnen.pl

Україна:

Виготовлено за ліцензією та під контролем
DIMAX International GmbH, Flinger Broich 203,
40235 Дюссельдорф, Німеччина.

Імпортер та представник в Україні:

ТОВ "ТЕХНО ТРЕЙД КС" вул. Електротехнічна 47,
02225, м. Київ, Україна. Змонтовано в КНР

www.konner-sohnen.com.ua

