

**INSTALLATION INSTRUCTIONS
& CONDITIONS FOR SAFE USE** II 2 GD

Ex eb IIC Gb

Modular TERMINAL BLOCKS: W- Series**DEMKO 15 ATEX 1346U****IECEx ULD 15.0003U****Notified Body No. of Ex - QA: 0344****Label print on package unit: 0344****UL21UKEX2116U****Approved Body No. of UK Ex - QA: xxxx****(see product marking)****Standards:**

EN IEC 60079-0:2018 and EN IEC 60079-7:2015 A1:2018

IEC 60079-0: 7th Edition and IEC 60079-7: 5.1th Edition

Modular Terminal Blocks: WDK/WDK PE

Version:	Type WDK 2.5/EX*	Order No 1029100000
in conjunction with:	WDK 2.5PE*	Order No 1036300000
Accessories:	Type	Order No
End Plate	WAP WDK2.5*	1059100000
Partition Plate	WTW EN	1058800000
End bracket	WEW 35/2*	1061200000
Terminal rail	TS 35/... acc.to DIN EN 60715	
	LS 2.8	1056400000
Cross-connection	Screwable* Q 2 AKZ4SS Q 10 AKZ4SS	Order No 0369000000 0369300000

Insulation material:

- Type	Wemid
- Tracking resistance (A) to IEC 60112	CTI \geq 600
- Flammability class to UL 94	V0
- Operating temperature range	-60°C...+110°C (insulating material limit)
- Ambient temperature range	-60°C...+40°C (for T6 applications)
- Ambient temperature range	-60°C...+55°C (for T5 applications)
- Ambient temperature range	-60°C...+70°C (for T4 applications)

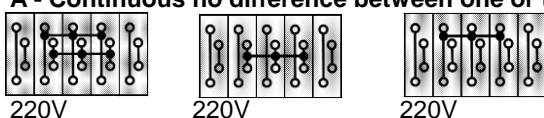
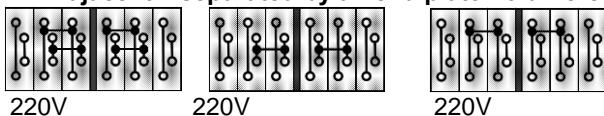
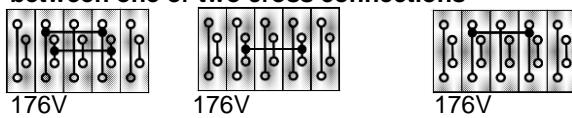
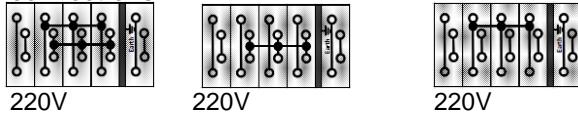
* in all colours and optional with hexagon and six lobe drive

Technical data according to IEC/EN 60079-7 (increased safety "eb"):

	WDK 2.5/EX	WDK 2.5PE
- Rated voltage	550 V	
- Rated voltage	176 V	
- Rated current	22 A / ΔT 40 K	
- Temperature rise with rated current	39,2 K / 22 A	
- Rated current with WQV	21 A / ΔT 40 K	
- Contact resistance top level with rated conductor, 2,5 mm ²	0,3 mΩ	1,1 mΩ
- Contact resistance lower level with rated conductor, 2,5 mm ²	0,5 mΩ	
- Rated conductor cross section	2,5 mm ²	2,5 mm ²
- Conductor cross section solid	0,13 - 4 mm ²	0,13 - 4 mm ²
- Conductor cross section stranded	0,13 - 4 mm ²	0,13 - 4 mm ²
- Conductor cross section flexible	0,13 - 4 mm ²	0,13 - 4 mm ²
- cross section, American Wire Gauge	26 - 12 AWG	26 - 12 AWG
- 2 conductors with same cross-section	0,13 - 1,5 mm ²	0,13 - 1,5 mm ²
- Tightening torque range, terminal screw	0,4 - 0,6 Nm	0,4 - 0,6 Nm
- Tightening torque range for WQV AKZ4SS	0,4 - 0,8 Nm	0,4 - 0,8 Nm
- Tightening torque range for Q... AKZ4SS	0,4 - 0,8 Nm	
- Stripping length	10 mm	10 mm

IECEx / ATEX / UKCA Terminal and Cross-Connector Arrangements:

Max voltage data according to IEC/EN 60079-7 in conjunction with protective earth terminal blocks of the WDK PE-Series, (increased safety "eb"):

Application Case**A - Continuous no difference between one or two cross connections****C - Adjacent – separated by an end plate no difference between one or two cross-connections****D - Intermediate - bridging one or more unconnected terminals (e.g. every 3rd terminal) no difference between one or two cross connections****F - Next to a protective conductor terminal (earth) separated no difference between one or two cross-connections**

Information for further cross-connector arrangements will be provided on request.

Max. voltage data with optional screen bus bar LS2,8: 176 V

Note:

If smaller cross sections than the rated cross section are used, the belonging lower current has to be laid down in the IECEx/EC-Type Examination Certificate of the complete apparatus.

Mounting instructions:

The WDK/WDK PE series is suitable for application in enclosures in atmospheres with flammable gases or combustible dust. For use in flammable gases these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-7. For use in combustible dust these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-31.

Regarding the use of accessories the instructions of the manufacturer must be followed.

Schedule of Limitations:

The feed through and protective earth terminal blocks are suitable for use in enclosures in atmospheres with flammable gases and combustible dust. For flammable gases these enclosures must satisfy the requirements according to IEC/EN 60079-0 and IEC/EN 60079-7. For combustible dust these enclosures must satisfy the requirements according to IEC/EN 60079-31.

The enclosure shall be constructed to block all sun and UV light from affecting the terminal blocks. The terminal blocks shall be placed inside a suitable IECEx/ATEX/UKCA certified IP54 enclosure for gas atmosphere. For dust atmosphere the terminal blocks shall be mounted inside a suitable IECEx/ATEX/UKCA certified certified 't' enclosure (IEC/EN60079-31).

The enclosure shall be constructed to block all sun and UV light from affecting the terminal blocks.

Under normal operating conditions the temperature rise of the terminal blocks is maximum 40 K, measured at the maximum permitted rated current. Due to the above mentioned, the terminal blocks may be used in apparatus of temperature classes T6..T1 as long as the terminal block ambient temperature range is not exceeded. No part of terminal block must exceed 110 °C under any condition.

T6 (- 60°C ... +40 °C)
 T5 (- 60°C ... +55 °C)
 T4 (- 60°C ... +70 °C)

When using the type WDK/WDK PE especially with other terminal blocks series or sizes or accessories the requirements for clearance and creepage distances according to IEC/EN60079-7 must be observed. Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

For cross connection accessories, current rating, resistance across the terminal and torque values please refer to the table under "technical data" above.

The terminal can be used with either one or two wires into either side of the terminal. When two wires are used they must be of the same type, and of equal sizes. No other wire sizes or types than the ones specified in instructions must be used. The terminal blocks must either be mounted next to another block of the same type and size or with an end plate.

If smaller conductor cross sections than the rated conductor cross sections are used, then the corresponding lower current shall be stated in the Certificate of the complete apparatus.

Unused terminals shall be tightened.

Additional information:

Concerning ESRs this Schedule verifies compliance with the Annex II of ATEX / Schedule 1 of UKCA directive and Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016 only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II / Schedule 1 of these Directives.