Weidmüller 🕉

INSTALLATION INSTRUCTIONS & CONDITIONS FOR SAFE USE

Ex II 2 GD

Ex eb IIC

Modular TERMINAL Blocks: W- Series

DEMKO 14 ATEX1338 U IECEx ULD 14.0005U Notified Body No. of Ex - QA: 0344 Label print on package unit: 0344

Standards: EN 60079-0:2012 + A11 2013 and EN 60079-7:2007 IEC 60079-0: 6th Edition and IEC 60079-7: 4th Edition

Modular Terminal Blocks: WDU/WPE

Version:	WDU 6*	Order No 1020200000
in conjunction with:	WPE 6*	Order No 1010200000
Accessories: End Plate Partition Plate End bracket Terminal rail Screen bus bar	Type WAP 2.5-10* WTW 2.5-10* WEW 35/2* TS 35/ acc.to LS 2.8	1050100000 1061200000
Cross-connection	Screwable* WQV 6/2 WQV 6/3 WQV 6/4 WQV 6/5 WQV 6/6 WQV 6/7 WQV 6/10	Order No 1052360000 1054760000 1054860000 1062660000 1062670000 1062680000 1052260000
Insulation material: - Type - Tracking resistance (A) to IEC 60112 - Flammability class to UL 94	Wemid CTI ≥ 600 V0	
 Operating temperature range Ambient temperature range Ambient temperature range Ambient temperature range 		(insulating material limit) (for T6 applications) (for T5 applications) (for T4 applications)

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



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

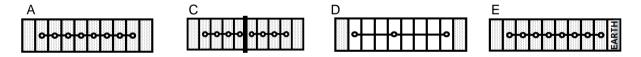
	WDU 6	WPE 6
- Rated voltage with rated cross section	690 V	
- Rated voltage max conductor	550 V	
- Rated voltage with LS 2.8	220 V	
- Rated current	41 A / ΔT 40 K	
- Temperature rise with rated current	34,5 K / 41 A	
 Rated current with WQV 	41 A / ΔT 40 K	
- Contact resistance		
with rated conductor, 6,0mm ²	0,18 mΩ	0,25 mΩ
- Rated conductor cross section	6mm²	6mm²
- Conductor cross section solid	0,14 - 6 mm²	0,14 - 6 mm²
- Conductor cross section stranded	0,14 - 6 mm²	0,14 - 6 mm²
- Conductor cross section flexible	0,14 - 6 mm²	0,14 - 6 mm²
- cross section, American Wire Gauge	26 - 10 AWG	26 - 10 AWG
- 2 conductors with same cross-section	0,5 - 2,5 mm²	
- Tightening torque range, terminal screw	0,8 - 1,6 Nm	0,8 - 1,3 Nm
- Tightening torque range, fixing screw		0,5 - 1,0 Nm
- Tightening torque range for WQV	0,5 - 1,0 Nm	
- Stripping length	12 mm	12 mm

IECEx / ATEX Terminal and Cross-Connector Arrangements:

Application

Case

- A Continuous
- C Adjacent separated by a partition plate
- D Intermediate bridging one or more unconnected terminals
- E Next to a protective conductor terminal (earth) without a partition plate



	WDU 6	
Application case	with WQV 6	
	max Voltage/V	
А	440	
С	440	
D	176	
E	352	

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

Max voltage data with optional screen bus bar LS 2.5

- WDU 6 with WQV 6 220 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 WDU/WPE 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/EN60079-0 and IEC/EN60079-31.

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

Schedule of Limitations:

The WDU/WPE terminals are suitable for use in enclosures in atmospheres with flammable gases or combustible dust. For flammable gases these enclosures must satisfy the requirements according to EN 60079-0 and EN 60079-7. For combustible dust the enclosure must satisfy the requirements according to EN 60079-0 and 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 certified IP54 enclosure in type of protection "e" for gas atmosphere. For dust atmosphere the terminal blocks shall be mounted inside a suitable certified enclosure (EN60079-31) in type of protection "t".

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 table 1 of EN 60079-7 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 please refer to the table under "types & electrical rating" above. Details on creepages and clearance values and the required torque values please see Notice to installers.

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.

Essential Health and Safety Requirements:

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive 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 of this Directive.