

Weidmüller ATEX 1338 W-Series Modular Terminal Blocks Instruction Manual

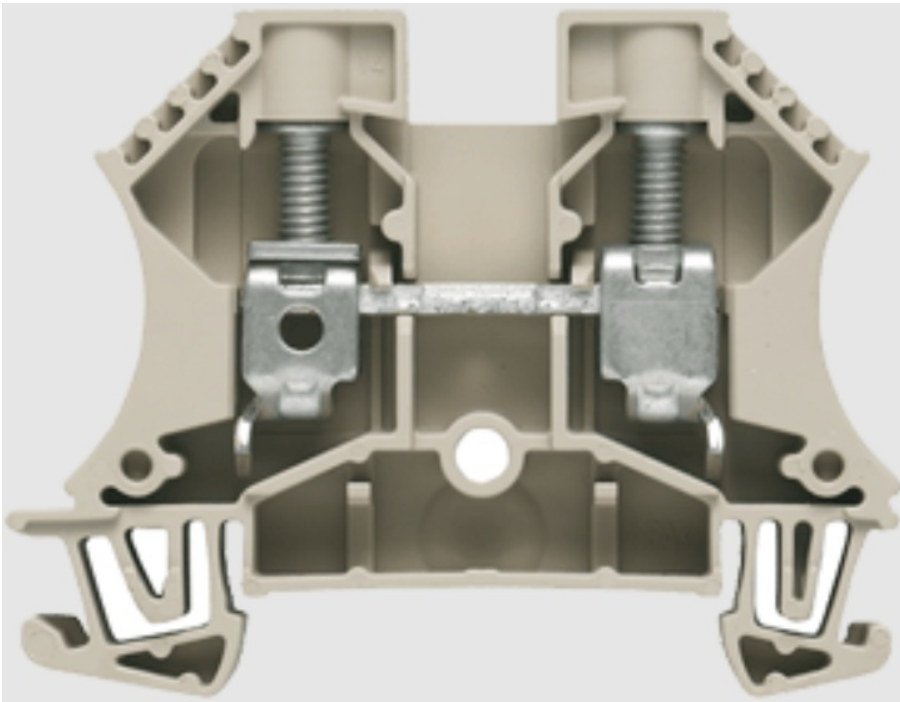
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Weidmüller ATEX 1338 W-Series Modular Terminal Blocks



Modular Terminal Blocks: WDU/WPE		
		Order No
Version:	WDU 10 SL*	9537480000
	WDU 10 SL/EN*	9537490000
in conjunction with:		Order No
	WPE 10*	1010300000
Accessories:	Type	Order No
End Plate	WAP 2.5-10*	1050000000
Partition Plate	WTW 2.5-10*	1050010000
End bracked	WEW 35/2*	1061200000
	WEW 32/1	1067600000
Terminal rail	TS 35/... TS 32...acc.to DIN EN 60715	
Cross-connection	Screwable*	Order No
	WQV 10/2	1052560000
	WQV 10/3	1054960000
	WQV 10/4	1055060000
	WQV 10/10	1052460000
Insulation material:		
– Type	Wemid	
– Tracking resistance (A) to IEC 60112	CTI ≥ 600	
– Flamability 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”):

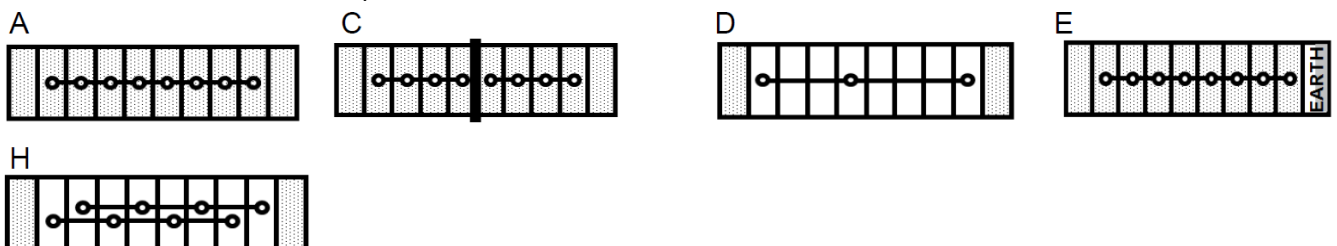
	WDU 10 SL WDU 10 SL/EN	WPE 10
<ul style="list-style-type: none"> – Rated voltage, WDU 10 SL/EN on TS 35 – Rated voltage, WDU 10 SL/EN on TS 32 – Rated voltage, WDU 10 SL 	690 V 550 V 352 V	
– Rated current	55 A / ΔT 40 K	
– Temperature rise with rated current	39,4 K / 55 A	
– Rated current with WQV	55 A / ΔT 40 K	
– Contact resistance with rated conductor, 10 mm ²	0,28 m Ω	0,22 m Ω
– Rated conductor cross section	10 mm ²	10 mm ²
– Conductor cross section solid	1,5 – 16 mm ²	1,5 – 16 mm ²
– Conductor cross section stranded	1,5 – 16 mm ²	1,5 – 16 mm ²
– Conductor cross section flexible	0,5 – 10 mm ²	0,5 – 16 mm ²
– cross section, American Wire Gauge	16 – 6 AWG	16 – 6 AWG
– 2 conductors with same cross-section	1.5 – 4 mm ²	1,5 – 6 mm ²
– Tightening torque range, terminal screw	1,2 – 2,4 Nm	1,2 – 2,4 Nm
– Tightening torque range, fixing screw		0,5 – 1,0 Nm
– Tightening torque range for WQV...	0,5 – 1,0 Nm	
– Stripping length	17 mm	12 mm

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

Max voltage data according to IEC/EN 60079-7 in conjunction with protective conductor terminal blocks of the WPE-Series, (increased safety “eb”):

Application Case

- A Continuous
- B Adjacent – separated by a partition plate
- C Intermediate – bridging one or more unconnected terminals (e.g. every 3rd terminal) Next to a protective conductor terminal (earth) without a partition plate
- D Cross-connection with twin parallel



Application case	WDU 10 SL with WQV 10	WDU 10 SL/EN on T S35 with WQV 10	WDU 10 SL/EN on T S32 with WQV 10
	max Voltage/V	max Voltage/V	max Voltage/V
A	352	440	440
C	352	440	440
D	220	220	220
E	352	–	–
H	220	220	220

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

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/EN60079-31. 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 IEC/EN60079-0 and IEC/EN60079-7. For combustible dust the enclosure must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-31. 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 't' enclosure (IEC/EN60079-31). 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 WDU/WPE 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.

Essential Health and Safety Requirements:

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.

Documents / Resources

	<p>Weidmuller ATEX 1338 W-Series Modular Terminal Blocks [pdf] Instruction Manual ATEX 1338 W- Series Modular Terminal Blocks, ATEX 1338, W-Series Modular Terminal Blocks , Modular Terminal Blocks, Terminal Blocks, Blocks</p>
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References

- [Sacc.to](#)