



Weidmüller W- Series Modular TERMINAL Blocks Installation Guide

[Home](#) » [Weidmüller](#) » Weidmüller W- Series Modular TERMINAL Blocks Installation Guide 

Contents

- [1 Weidmüller W- Series Modular TERMINAL Blocks](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 FAQ](#)
- [5 Insulation material](#)
- [6 Mounting instructions](#)
- [7 Schedule of Limitations](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)

Weidmüller 

Weidmüller W- Series Modular TERMINAL Blocks



Product Information

Specifications

- **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
- **Test – Disconnect Terminal Blocks:** WMF 2.5 DI
- **Version:** WMF 2.5 DI 4756392 Index: 05 Date: 01.2023
- **Accessories:** End Plate, End Bracket, Terminal Rail
- Type WMF 2.5 DI* WMF 2.5 DI PE* WMF 2.5 DI PE STB*
- **Order No:**
 - **WMF 2.5 DI:** 1143020000
 - **WMF 2.5 DI PE:** 1143030000
 - **WMF 2.5 DI PE STB:** 1167340000
 - **AP WMF 2.5:** 1142990000
 - **WEW 35/2:** 1061200000
 - TS 35/... acc.to DIN EN 60715
- Cross-connection
- **Insulation material:**
 - **Type:** Wemid CTI
 - Tracking resistance (A) to IEC 60112
 - Flammability class to UL 94
 - Operating temperature range
- Pluggable* ZQV 2.5N/2 ZQV 2.5N/3 ZQV 2.5N/4 ZQV 2.5N/5 ZQV 2.5N/6 ZQV 2.5N/7 ZQV 2.5N/8 ZQV 2.5N/9 ZQV 2.5N/10

Product Usage Instructions

Mounting Instructions

The WMF 2.5 DI terminal block is suitable for application in enclosures in atmospheres with flammable gases and combustible dust. For use in flammable gases, these enclosures must satisfy the requirements according to EN/IEC 60079-0 and EN/IEC 60079-7. For use in combustible dust, these enclosures must satisfy the requirements according to EN/IEC 60079-0 and EN/IEC 60079-31.

In combination with other terminal block series and sizes, and if other accessories are used, the applicable creepage and clearance distances shall be met.

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

Schedule of Limitations

The disconnect terminal block is suitable for use in enclosures in atmospheres with flammable gases and combustible dust. For flammable gases, these enclosures must satisfy the requirements according to EN/IEC 60079-0 and EN/IEC 60079-7. For combustible dust, these enclosures must satisfy the requirements according to EN/IEC 60079-31.

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 (EN/IEC 60079-31).

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

FAQ

Q: What are the applicable standards for this product?

A: The applicable standards for this product are 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.

Q: What are the specifications of the WMF 2.5 DI terminal block?

A: The specifications of the WMF 2.5 DI terminal block are as follows:

- **Rated voltage:** 500 V
- **Rated current:** 18.5 A
- **Rated conductor cross section:** 26 – 12 AWG
- **Tightening torque range, terminal screw:** 0.5 – 0.6 Nm
- **Stripping length:** 10 +/- 0.5 mm
- **Service life acc. To IEC 60947-7-1 – max. no. of actuations:** 50 cycles

INSTALLATION INSTRUCTIONS & CONDITIONS FOR SAFE USE

II 3 G Ex ec IIC Gc

Modular TERMINAL Blocks: W- Series

- DEMKO 14 ATEX 1389U
- IECEx UL 14.0097U
- UL21UKEX2115U

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

Test – Disconnect Terminal Blocks: WMF 2.5 DI

Version /Type / Order No

WMF 2.5 DI / 1143020000

WMF 2.5 DI PE / 1143030000

WMF 2.5 DI PE STB / 1167340000

Accessories**Order No**

End Plate/ AP WMF 2.5 /1142990000

End bracked /WEW 35/2 / 1061200000

Terminal rail TS 35/... acc.to DIN EN 60715

Cross-connection / Pluggable

ZQV 2.5N/2

ZQV 2.5N/3

ZQV 2.5N/4

ZQV 2.5N/5

ZQV 2.5N/6

ZQV 2.5N/7

ZQV 2.5N/8

ZQV 2.5N/9

ZQV 2.5N/10

Insulation material

- – Type / Wemid
- Tracking resistance (A) to IEC 60112/CTI ≥ 600
- Flammability class to UL 94 /V0
- Operating temperature range /60°C...+130°C (insulating material limit)

in all colours

Technical data according to IEC/EN 60079-7 (increased safety “ec”)**Note**

The creepage and clearance distances were determined in the worst case. (with closed or open clamping yoke) 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 WMF 2.5 DI terminal block is suitable for application in enclosures in atmospheres with flammable gases and combustible dust. For use in flammable gases these enclosures must satisfy the requirements according to EN/IEC 60079-0 and EN/IEC 60079-7. For use in combustible dust these enclosures must satisfy the requirements according to EN/IEC 60079-0 and EN/IEC 60079-31. In combination with other terminal block series and sizes and if other accessories are used, the applicable creepage and clearance distances shall be met.

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

Schedule of Limitations

The disconnect terminal block is suitable for use in enclosures in atmospheres with flammable gases and combustible dust. For flammable gases these enclosures must satisfy the requirements according to EN/IEC 60079-0 and EN/IEC 60079-For combustible dust these enclosures must satisfy the requirements according to

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 (EN/IEC 60079-31).

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 max 40 K, measured with the max 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 as shown below. No part of terminal block must exceed 130° C under any condition.


WARNING

- Do not remove or replace the fuse/test disconnect switch when energized! When using the types WMF 2.5 DI with other terminal blocks series or sizes or accessories, the requirements for clearance and creepage distances according to EN/IEC 60079-7 must be observed. Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.
- For terminal jumper accessories current ratings and the resistances across the terminals 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.
- The terminal blocks may be used, based on the self-heating when used at the nominal current and at ambient temperatures of – 60 °C to + 40 °C at the mounting position in electrical apparatus, e.g. junction and connection boxes, for temperature class T6. when the terminal blocks are used in electrical apparatus of temperature classes T1 up to T5, the highest temperature of the insulating material shall not exceed the max. value of the operating temperature range.
 - Cross connections with blank ends shall not be used.
 - Manually cut cross connections shall not be used.

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 W- Series Modular TERMINAL Blocks [pdf] Installation Guide W- Series Modular TERMINAL Blocks, W- Series, Modular TERMINAL Blocks, TERMINAL Blocks, Blocks</p>
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References

- [acc.to](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)