

INSTALLATION INSTRUCTIONS
& CONDITIONS FOR SAFE USE II 2 GD
Ex eb IIC Gb**Modular TERMINAL Blocks: A- Series****TÜV 16 ATEX 7909 U**
IECEx TUR 16.0036 U
TÜV21UKEX7001U**Standards:**EN 60079-0:2018 and EN 60079-7:2015 A1:2018
IEC 60079-0: 7th Edition and IEC 60079-7: 5.1th Edition**Modular Terminal Blocks: A3T 1.5**

		Order No
Version:	A3T 1.5 FT-FT-PE	2817990000
in conjunction with:	A3T 1.5 PE	2818000000
Accessories:	Type	Order No
end plate	AEP A3T 1.5	2816950000
end bracket	AEB 35 SC/1*	1991920000
Terminal rail	TS 35/... acc.to DIN EN 60715	
Cross-connection	Plugable	Order No
	ZQV 1.5N/2	1985410000
	ZQV 1.5N/3	1985480000
	ZQV 1.5N/4	1985490000
	ZQV 1.5N/5	1985500000
	ZQV 1.5N/6	1985510000
	ZQV 1.5N/7	1985520000
	ZQV 1.5N/8	1985540000
	ZQV 1.5N/9	1985560000
	ZQV 1.5N/10	1985580000

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

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

	A3T 1.5 FT-FT-PE	A3T 1.5 PE
- Rated voltage	440 V	
- Rated current	14 A / $\Delta T \leq 40$ K	
- Rated current with ZQV	13 A / $\Delta T \leq 40$ K	
- Contact resistance with rated conductor 1,5 mm ²		
top level	1,0 mΩ	
middle level	1,4 mΩ	2,6 mΩ
lower level	1,5 mΩ	
- Rated conductor cross section	1,5 mm ²	1,5 mm ²
- Conductor cross section solid	0,5 - 1,5 mm ²	0,5 - 1,5 mm ²
- Conductor cross section stranded	0,5 - 1,5 mm ²	0,5 - 1,5 mm ²
- Conductor cross section flexible	0,5 - 1,5 mm ²	0,5 - 1,5 mm ²
- cross section, American Wire Gauge	26 - 14 AWG	26 - 14 AWG
- conductor cross section flexible with ferrule acc. to DIN 46228 part 1	0,5- 1,5 mm ²	0,5- 1,5 mm ²
- conductor cross section flexible with ferrule acc. to DIN 46228 part 4	0,5- 1,0 mm ²	0,5- 1,0 mm ²
- Stripping length	8 mm	8 mm

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

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

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

Mounting instructions:

The Feed-through terminals and PE terminals of the A-series are 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.

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 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 (IEC/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 Feed-through terminals and PE terminals 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 please refer to the table under "technical " above.

When using ferrules for flexible conductors, it must be ensured that the test requirements of DIN 46228-1 and DIN 46228-4 are complied with. Therefore we recommend the use of the appropriate Weidmüller crimping tools. The length of the copper ferrule must correspond to the specified stripping length.

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.



- 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.