

**INSTALLATION INSTRUCTIONS**  
**& CONDITIONS FOR SAFE USE**

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: A2C 95/120**

		Order No
Version:	A2C 95/120*	2694060000
	A2C 95/120-DM*	2694150000

		Order No
In conjunction with:	A2C 95/120 PE*	2694090000

		Order No
Block types:	A2C 95/120 3FT-N-FE	2694100000
	A2C 95/120 3FT-N	2694120000
	A2C 95/120 3FT-FE	2694130000
	A2C 95/120 3FT	2694140000
	A2C 95/120 3FT-N-FE-DM	2694180000
	A2C 95/120 3FT-N-DM	2694200000
	A2C 95/120 3FT-FE-DM	2694220000
	A2C 95/120 3FT-DM	2694230000

		Order No
Accessories: end bracket	Type AEB 35 SC/1*	1991920000

Terminal rail	TS 35/... acc.to IEC 60715
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		Order No
Cross-connection	Pluggable ZQV 95/120N/2*	2694250000
	ZQV 95/120N/3*	2694260000

**Insulation material:**

- Type	Wermid
- 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"):**

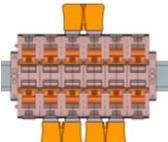
	A2C 95/120	A2C 95/120 PE	A2C 95/120 DM
- Rated voltage	1.100 V		1.100 V
- Rated current	211 A / $\Delta T \leq 40$ K		211 A / $\Delta T \leq 40$ K
- Rated current with ZQV	202 A / $\Delta T \leq 40$ K		202 A / $\Delta T \leq 40$ K
- Contact resistance with rated conductor	0,2 mΩ	0,1 mΩ	0,2 mΩ
- Rated conductor cross section	95 mm <sup>2</sup>	95 mm <sup>2</sup>	95 mm <sup>2</sup>
- Conductor cross section stranded	25 - 120 mm <sup>2</sup>	25 - 120 mm <sup>2</sup>	25 - 120 mm <sup>2</sup>
- Conductor cross section flexible	25 - 120 mm <sup>2</sup>	25 - 120 mm <sup>2</sup>	25 - 120 mm <sup>2</sup>
- cross section, American Wire Gauge	250 Kcmil - AWG 4	AWG 000 - 4	250 Kcmil - AWG 4
- conductor cross section flexible with ferrule acc. to DIN 46228 part 1 + 4	25 - 95 mm <sup>2</sup>	25 - 95 mm <sup>2</sup>	25 - 95 mm <sup>2</sup>
- Stripping length	40 mm	40 mm	40 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"):

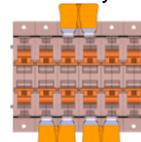
**Application Case****A - Continuous no difference between one or two cross connections**

DIN Rail - Version



1.100 V

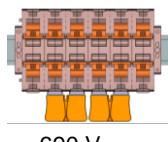
Direct assembly - Version



880 V

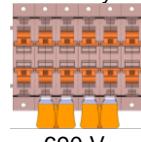
**B - Continuous with 2 cross-connections**

DIN Rail - Version



690 V

Direct assembly - Version



690 V

**E - Next to a protective conductor terminal (earth)**

DIN Rail - Version



880 V

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 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.

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 types A2C 95/120 and A2C 95/120 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 please refer to the table under "technical data" 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.

**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.