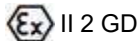


INSTALLATION INSTRUCTIONS
& CONDITIONS FOR SAFE USE



Ex eb IIC Gb

Modular TERMINAL Blocks: A- Series

TÜV 16 ATEX 7909 U

IECEX TUR 16.0036 U

Notified Body No. of Ex - QA: 0344

Label print on package unit: 0344

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: A3C 1.5

Version:	A3C 1.5*	Order No 1552740000
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in conjunction with:	A3C 1.5 PE	Order No 1552670000
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Accessories:	Type	Order No
end plate	AEP 3C 1.5*	1552620000
end bracket	AEB 35 SC/1*	1991920000

Terminal rail	TS 35/... acc.to DIN EN 60715
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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 ≥ 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"):

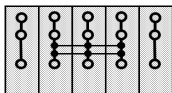
	A3C 1.5	A3C 1.5 PE
- Rated voltage	440 V	
- Rated current	15 A / $\Delta T \leq 40$ K	
- Rated current with ZQV	14 A / $\Delta T \leq 40$ K	
- Contact resistance	1,2 m Ω	
- Rated conductor cross section	1,5 mm ²	1,5 mm ²
- Conductor cross section solid	0,5 - 1,5 mm ²	0,5 - 1,5 mm ²
- Conductor cross 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
- Stripping length	8 mm	8 mm

IECEx / ATEX 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"):

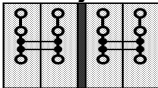
Application Case

A - Continuous no difference between one or two cross connections



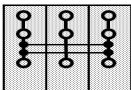
352 V

C - Adjacent – separated by an end plate no difference between one or two cross connections



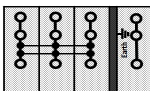
550 V

D - Intermediate - bridging one or more unconnected terminals (e.g. every 3rd terminal) no difference between one or two cross connections



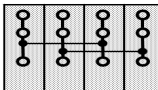
275 V

F - Next to a protective conductor terminal (earth) with end plate



440 V

H - Cross-connection with twin parallel



220 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 Feed-through terminals and PE terminals of the A-series 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

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 A3C 1.5 and A3C 1.5 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 "Technical data" above.

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.



Manually cut cross connections and cross connections with blank ends (ZQV's ≥ 20 poles) shall not be used.

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.