IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx FTZU 21.0013U**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2022-02-28

Applicant: **ELEKTRO, výrobní družstvo v Bečově nad Teplou**
Tovární 128
Bečov nad Teplou 364 64
Czech Republic

Ex Component: Terminal blocks RSA 2,5A; RS 4; RSA 6A; RSA 10A; RSA 16 A; RSA 35A; RSA 70A; RSA PE 2,5; RS PE 4; RSA PE 6; RSA PE 10; RSA PE 16; RSA PE 35; RSA PE 70;

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **increased safety "e"**

Marking: Ex eb I Mb
Ex eb IIC Gb

Approved for issue on behalf of the IECEx Certification Body: **Dipl. Ing. Lukáš Martinák**

Position: **Head of the Certification Body**

Signature: (for printed version)

Date: (for printed version) 2022-02-28

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Fyzikalne technicky zkusebni ustav
(Physical -Technical Testing Institute)
Pikartska 7, 71607 Ostrava - Radvanice
Czech Republic

IECEx Certificate of Conformity

Certificate No.: **IECEx FTZU 21.0013U**

Date of issue: 2022-02-28 Issue No: 0

Manufacturer: **ELEKTRO, výrobní družstvo v Bečově nad Teplou**
Tovární 128
Bečov nad Teplou 364 64
Czech Republic

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Report:

CZ/FTZU/ExTR21.0013/00

Quality Assessment Report:

CZ/FTZU/QAR21.0004/00

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Certificate No.: **IECEx FTZU 21.0013U**

Date of issue: 2022-02-28

Issue No: 0

Ex Component(s) covered by this certificate is described below:

Terminal blocks and accessories are protected by increased safety ,,eb" explosion protection.
Terminal blocks are created by the insulating body and the conductive currentway.

Insulating body is made of Frianyl B3 V0 NC 1102/V - PA6 with CTI = 600.
Groove and ribbons are used to secure creepage and clearances on the insulating body.

Currentway is made from copper with metal plated finish. Contact pressure between currentway and the conductor is developed by screw and clamp.
Terminal blocks are intended for mounting to mounting rail inside enclosure securing Ex protection. Terminal blocks are intended for mounting of solid or stranded wires. Stranded wires could be crimped.
All certified accessories are made from metal with no insulating part except ridge jumpers. Ridge jumper contains insulating part made from Frianyl B3 V0 NC 1102/V - PA6.

Service temperature range of the terminal blocks and certified accessories is from -40°C to +105°C.

Rated parameters of terminal blocks and colours are given in the annex to this CoC.

SCHEDULE OF LIMITATIONS:

Service temperature range of terminal blocks is -40°C to +105°C.

Annex:

Annex_to_IECEx_FTZU_21_0013U_00.pdf

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Attachment to Certificate of Conformity

IECEx FTZU 21.0013U issue:0

Applicant: **Elektro, výrobní družstvo**
Address: **Tovární 128, 364 64 Bečov nad Teplou**

Electrical Apparatus: **Terminal Blocks**

Rated parameters of terminal blocks:

Terminal block type	Rated cross section [mm²]	Rated range of cross section [mm²]	Tightening torque [Nm]	Rated current max. in case of rated cross-section [A] Without accessories	Rated current max. in case of rated cross-section [A] With accessories	Rated voltage [V] Without accessories	Rated voltage [V] With accessories	Resistance of terminal block in case of rated cross-section [mΩ]
RSA 2,5A	2.5	0.5 ÷ 2.5	0.4	20	18	500	630	1.2
RS 4	4	0.5 ÷ 6	0.5	30	30	500	630	0.25
RSA 6A	6	0.5 ÷ 10	0.8	40	40	400	400	0.22
RSA 10A	10	1.5 ÷ 16	1.2	55	55	500	400	0.12
RSA 16A	16	1.5 ÷ 25	2	68	68	320	320	0.21
RSA 35 A	35	2.5 ÷ 50	2.5	110	110	320	320	0.8
RSA 70A	70	10 ÷ 95	6	165	165	1000	1000	0.12
RSA PE 2,5A	2.5	0.5 ÷ 2.5	0.4	-	-	-	-	-
RS PE 4	4	0.5 ÷ 6	0.5	-	-	-	-	-
RSA PE 6A	6	0.5 ÷ 10	0.8	-	-	-	-	-
RSA PE 10A	10	1.5 ÷ 16	1.2	-	-	-	-	-
RSA PE 16A	16	1.5 ÷ 25	2	-	-	-	-	-
RSA PE 35 A	35	2.5 ÷ 50	2.5	-	-	-	-	-
RSA PEN 70A	70	10 ÷ 95	6	-	-	-	-	-

Terminal blocks are produced in defined colour range:

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