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 PTB 05.0033U**

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Certificate history:
Issue 2 (2017-08-10)
Issue 1 (2013-08-01)
Issue 0 (2005-12-19)

Status: **Current**

Issue No: 3

Date of Issue: 2021-05-18

Applicant: **WAGO Kontakttechnik GmbH & Co. KG**
Hansastraße 27
32423 Minden
Germany

Ex Component: WAGO Through terminal block and earthing conductor terminal block, Type TOPJOB S 2004-1*0* and type TOPJOB S 2004-1*07

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 "eb"**

Marking: Ex eb IIC Gb resp. Ex eb I Mb

Approved for issue on behalf of the IECEx Certification Body: **Dr.-Ing. Detlev Markus**

Position: **Head of Department "Explosion Protection in Energy Technology"**

Signature: (for printed version)

Date: 20.05.21

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:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

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Manufacturer: **WAGO Kontakttechnik GmbH & Co. KG**
Hansastraße 27
32423 Minden
Germany

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 equipment 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 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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

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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/PTB/ExTR06.0004/03

Quality Assessment Report:

DE/PTB/QAR06.0003/12

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

Description of equipment

Screwless feed-through terminal block, type TOPJOB S, 2004-1*0* series as well as screwless earthing conductor terminal block, type TOPJOB S, 2004-1*07 series with two, three or four clamping units, composed of insulating envelope (polyamide PA 6.6) and connection facilities with cage clamp. Accessories: end cover and adapter plates, partition, bridging elements as well as retaining clip and end bracket. The terminal is fastened on mounting rails.

The terminal is used to connect copper conductors in terminal compartments of the type of protection increased safety "eb" and protection by enclosure "ta, tb, tc".

Technical data and Nomenclature see Annex.

SCHEDULE OF LIMITATIONS:

The terminals shall be mounted in an enclosure that meets the requirements of an approved type of protection as specified in IEC 60079-0, section 1 or IEC 60079-31.

When installing the terminals in an enclosure designed to Increased Safety "eb" type of protection as specified in IEC 60079-7, the clearance and creepage distances shown in table 2 shall be duly considered. If accessories are used, the instructions for installation provided by the manufacturer shall be observed.

Since in this case the requirements of the standard are identical, the terminal blocks may be used both in group II and group I.

When feed-through terminals with earthing-conductor terminal blocks are mounted side by side, end cover plates or adapter plates are to be provided.

The use of this component requires a further assessment by an ExCB.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
1) Update to the current standards

2) The nomenclature is changed.

Annex:

COCA050033U-03_1.pdf

Applicant:	WAGO Kontakttechnik GmbH & Co. KG Hansastraße 27 32423 Minden, Germany
Electrical Apparatus:	WAGO Through terminal block and earthing conductor terminal block, Type TOPJOB S 2004-1*0* and type TOPJOB S 2004-1*07

Description

Screwless feed-through terminal block, type TOPJOB S, 2004-1*0* series as well as screwless earthing conductor terminal block, type TOPJOB S, 2004-1*07 series with two, three or four clamping units, composed of insulating envelope (polyamide PA 6.6) and connection facilities with cage clamp. Accessories: end cover and adapter plates, partition, bridging elements as well as retaining clip and end bracket. The terminal is fastened on mounting rails.

The terminal is used to connect copper conductors in terminal compartments of the type of protection increased safety “eb” and protection by enclosure “ta, tb, tc”.

Technical data

Type 2004	-12**	-13**	-14**	-12**	-13**	-14**	-1207 -1307 -1407
	with comb- type jumper bar			w/o comb-type jumper bar			PE
Rated insulation voltage	500V	500V	500V	500V	500V	500V	--
Rated voltage max	550V	550V	550V	550V	550V	550V	--
Rated current max.	30A	30A	30A	30A	30A	30A	--
Rated cross section			4 mm²				
Temperature			at max. rated current and rated cross section temperature increase 40 K				
Capacity			0.5 mm² to 6 mm², single- and multi wire, finely stranded				
Number of wires per clamping point			1 wire per clamping point				
Resistance			1.0 mΩ (4 mm²)				
Service temperature range			-55° C to +85° C				

Nomenclature

TOPJOB S	2004-	*	*	**	/(*)***-(*)***
1	2	3	4	5	6

1: Type designation
2: Serie
3: Feed-through terminal block
4: Number of clamping units
5: Colour (07: green-yellow, earth conductor terminal block)
6: Additional option (e.g. special colors, customer variants, etc.)

Note: Other colors not explicitly mentioned in the nomenclature are possible under the condition that the above-mentioned insulating material is used.

Key of Type designation

Terminal blocks	Description
2004-1201	2-conductor feed-through terminal block, grey
2004-1202	2-conductor feed-through terminal block, orange
2004-1203	2-conductor feed-through terminal block, red
2004-1204	2-conductor feed-through terminal block, blue
2004-1205	2-conductor feed-through terminal block, black
2004-1206	2-conductor feed-through terminal block, yellow
2004-1209	2-conductor feed-through terminal block, light grey
2004-1301	3-conductor feed-through terminal block, grey
2004-1302	3-conductor feed-through terminal block, orange
2004-1303	3-conductor feed-through terminal block, red
2004-1304	3-conductor feed-through terminal block, blue
2004-1305	3-conductor feed-through terminal block, black
2004-1306	3-conductor feed-through terminal block, yellow
2004-1309	3-conductor feed-through terminal block, light grey
2004-1401	4-conductor feed-through terminal block, grey
2004-1402	4-conductor feed-through terminal block, orange
2004-1403	4-conductor feed-through terminal block, red
2004-1404	4-conductor feed-through terminal block, blue
2004-1405	4-conductor feed-through terminal block, black
2004-1406	4-conductor feed-through terminal block, yellow
2004-1409	4-conductor feed-through terminal block, light grey
2004-1207	2-conductor ground terminal block, green-yellow
2004-1307	3-conductor ground terminal block, green-yellow
2004-1407	4-conductor ground terminal block, green-yellow

Accessories

Accessories	Description
2004-1291	End- and intermediate plate for 2-conductor terminal, grey
2004-1292	End- and intermediate plate for 2-conductor terminal, orange
2004-1391	End- and intermediate plate for 3-conductor terminal, grey
2004-1392	End- and intermediate plate for 3-conductor terminal, orange
2004-1491	End- and intermediate plate for 4-conductor terminal, grey
2004-1492	End- and intermediate plate for 4-conductor terminal, orange
209-190	Dividing plate Ex e/Ex i, 90 mm 2-conductor terminal
209-191	Dividing plate Ex e/Ex i, 120 mm, 2 conductor terminal
209-101	End angle
249-117	End clamp 10 mm
249-116	End clamp 6 mm
2002-402	Comb type jumper bar, light grey, insulated, 2-way
2002-403	Comb type jumper bar, light grey, insulated, 3-way
2002-404	Comb type jumper bar, light grey, insulated, 4-way
2002-405	Comb type jumper bar, light grey, insulated, 5-way
2002-406	Comb type jumper bar, light grey, insulated, 6-way
2002-407	Comb type jumper bar, light grey, insulated, 7-way
2002-408	Comb type jumper bar, light grey, insulated, 8-way
2002-409	Comb type jumper bar, light grey, insulated, 9-way
2002-410	Comb type jumper bar, light grey, insulated, 10-way
2002-433	Comb type jumper bar, light grey, insulated, 1 to 3
2002-434	Comb type jumper bar, light grey, insulated, 1 to 4
2002-435	Comb type jumper bar, light grey, insulated, 1 to 5
2002-436	Comb type jumper bar, light grey, insulated, 1 to 6
2002-437	Comb type jumper bar, light grey, insulated, 1 to 7
2004-438	Comb type jumper bar, light grey, insulated, 1 to 8
2004-439	Comb type jumper bar, light grey, insulated, 1 to 9
2004-440	Comb type jumper bar, light grey, insulated, 1 to 10

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