



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

Certificate No.:	IECEX PTB 09.0009X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 5	Issue 4 (2015-07-06)
Date of Issue:	2020-01-10		Issue 3 (2013-01-17)
			Issue 2 (2012-09-11)
			Issue 1 (2011-11-01)
			Issue 0 (2009-01-28)
Applicant:	BARTEC-Varnost d.o.o. Cesta 9 avgusta 59 1410 Zagorje ob Savi Slovenia		
Equipment:	Junction Box types 07-5103-****/**** , 07-5105-****/**** , 07-5106-****/**** and 07-5107-****/****		
Optional accessory:			
Type of Protection:	Increased Safety "eb", Intrinsic Safety "Ia/Ib", Protection by Enclosure "tb"		
Marking:	Ex eb Ia/Ib IIA, IIB, IIC T6, T5 Gb Ex Ia/Ib IIA, IIB, IIC T6, T5 Gb Ex tb III C T80 °C, T95 °C Db Ex Ia/Ib III C T80 °C, T95 °C Db		

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)

D. Markus
14.01.20

Date:

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Certificate Issued by:

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





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Date of issue: 2020-01-10

Issue No: 5

Manufacturer: **BARTEC-Varnost d.o.o.**
Cesta 9. avgusta 59
1410 Zagorje ob Savi
Slovenia

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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 6.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition: 2

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/EXTR09.0009/04](#)

Quality Assessment Report:

[SI/SIQ/QAR11.0003/05](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment

The junction box, type 07-5103-**** / * ***, 07-5105-**** / * ***, 07-5106-**** / * ***, 07-5107-**** / * ***, is a polyester enclosure which is designed to type of protection Increased Safety "e".

The junction box type 07-5103-**** / * ***, 07-5105-**** / * ***, is also designed to type of protection Protection by enclosure "tb".

The junction box of type 07-5103-**** / * ***, 07-5105-**** / * ***, is equipped with terminals of type of protection Increased Safety "eb" and, optionally, terminals for intrinsically safe circuits. The latter are separated from the terminals of type of protection Increased Safety "e" and are marked, e.g. by a light-blue colour, for clear identification.

The junction box of type 07-5105-**** / * ***, 07-5107-**** / * ***, houses terminals for intrinsically safe circuits only.

Connection is by means of Ex-type cable entries. The empty enclosure and all components have been tested and certified under a separate examination certificate.

Technical data, nomenclature and notes for manufacturing and operation see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Conditions for safe use

For enclosures and parts of enclosures with a surface resistance $>10^9$ Ohm exist potential electrostatic charging hazard. These enclosures has to be equipped with following marking:

"Warning – potential electrostatic charging hazard. Only wet cleaning. See Instructions"



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

New test according to the standards IEC 60079-0:2017 (Ed. 7), IEC 60079-7:2015+A1:2017 (Ed. 5.1), IEC 60079-11:2011 (Ed. 6), IEC 60079-31:2013 (Ed. 2).

Annex:

[COCA 09.0009X Issue 5.pdf](#)



Applicant: BARTEC Varnost d.o.o.
Cesta 9 avgusta 59
1410 Zagorje ob Savi
Slovenia

Electrical Apparatus: Junction box types 07-5103-****/****, 07-5105-****/****,
07-5106-****/**** and 07-5107-****/****

Description of equipment

The junction box, type 07-5103-****/****, 07-5105-****/****, 07-5106-****/**** and 07-5107-****/**** of a polyester enclosure which is designed to type of protection Increased Safety "eb".

The junction box type 07-5103-****/**** and 07-5105-****/**** is also designed to type of protection Protection by enclosure "tb".

The boxes are provided with cable entries and inspection windows.

The junction box of type 07-5103-****/**** and type 07-5106-****/**** is equipped with terminals of type of protection Increased Safety "e" and, optionally, terminals for circuits in the type of protection Intrinsic Safety "ia/ib". The latter are separated from the terminals in the type of protection Increased Safety "e" and are marked, e.g. by a light-blue colour, for clear identification.

The junction box of type 07-5105-****/**** and type 07-5107-****/**** houses terminals for circuits in the type of protection Intrinsic Safety "ia/ib" only.

Connection is by means of Ex-type cable entries.

The empty enclosure and all components have been tested and certified under a separate examination certificate.

Technical data

Sizes	Length	Width	Height
smallest	80 mm	75 mm	55 mm
largest	600 mm	405 mm	165 mm



Rated voltage*	up to 1100 V
Rated current*	max. 500 A
Rated cross section*	max. 300 mm ²
*) depending on the type of terminal used	
Ambient temperature, depending on temperature class, gasket and inspection window	
-20 °C to +40 °C: T6, EPDM gasket and inspection window	
-55 °C to +40 °C: T6, T80 °C, silicone gasket	
-20 °C to +55 °C: T5, T95 °C, EPDM gasket	
-55 °C to +55 °C: T5, T95 °C, silicone gasket and Ex ia/ib IIC T6 Gb version with silicone gasket	

Rated voltage	up to 230 V
Rated current	max. 1 A
Rated cross section	max. 0,75 mm ²
Ambient temperature, depending on gasket and inspection window	
-20 °C to +70 °C: T6, EPDM gasket and inspection window(s)	
-55 °C to +70 °C: T6, T80 °C, silicon gasket and Ex ia/ib IIC T6 Gb version with silicone gasket	

Degree of Protection acc. to IEC 60529 IP66 with EPDM gasket and silicone gasket
Surface resistance
Housing type 07-5103-****/****: < 10 ⁹ Ohm
Housing type 07-5105-****/****: < 10 ⁹ Ohm
Housing type 07-5106-****/****: > 10 ¹² Ohm
Housing type 07-5107-****/****: > 10 ¹² Ohm
Inspection window: > 10 ¹⁴ Ohm

General remarks

The ratings specified are maximum values, actual values will be subject to the explosion-proof equipment used from case to case. Depending on the system conditions, the manufacturer will define the definitive ratings which will be within the range of these limiting values and will comply with the relevant standards.

The composition of the protection symbol will be based on the types of protection of components actually used.



Nomenclature

07-	5	1	**-	***	*/**	**
1	2	3	4	5	6	7

- 1) Type number
- 2) Number for installation material
- 3) Number for junction box
- 4) Number for intended purpose
03: Increased Safety, Polyester enclosure type 07-5185-****/****
05: Intrinsic Safety, Polyester enclosure type 07-5185-****/****
06: Increased Safety, Polyester enclosure type 07-5184-****/****
07: Intrinsic Safety, Polyester enclosure type 07-5184-****/****
- 5) Number for length
min. 080 = 80 mm, max: 600 = 600 mm
- 6) Number for width
min. 075 = 75 mm, max. 405 = 405 mm
- 7) Number for height
min. 55 = 55 mm, max. 16 = 160 mm

Marking

Ex eb ia/ib IIA, IIB, IIC T6, T5 Gb	(Type 07-5103-****/**** and 07-5106-****/****)
Ex ia/ib IIA, IIB, IIC T6, T5 Gb	(Type 07-5105-****/**** and 07-5107-****/****)
Ex tb IIIC T80 °C, T95 °C Db	(Type 07-5103-****/**** and 07-5105-****/****)
Ex ia/ib IIIC T80 °C, T95 °C Db	(Type 07-5105-****/****)

Notes for manufacturing and operation

The maximum number of conductors for the housing size in dependence on the section and the permissible continuous current rating are to be taken from the specifications.

Terminals for intrinsically safe circuits have to be installed in such a way that the clearance and creepage distances between intrinsically safe and non-intrinsically safe circuits and/or different intrinsically safe circuits and a circuit and earth as set forth in EN 60079-11 are met.

When more than one intrinsically safe circuit is used, the rules for interconnection are to be observed.

The admissible temperature range of the installed elements must not be exceeded.

Specific Conditions of Use

For enclosures and parts of enclosures with a surface resistance $>10^9$ Ohm exist potential electrostatic charging hazard. These enclosures have to be equipped with following marking: "Warning – potential electrostatic charging hazard. Only wet cleaning. See instructions".

At a temperature of more than +60 °C heat resistant cables have to be used.



Attachment to Certificate
IECEX PTB 09.0009X, Issue No. 4



Supplemental sheet No. 1
regarding compliance certification: IECEX PTB

Equipping of the branch and relay boxes type 07-5101-0580/6436
Housing size in mm L, W = 68, W, H = 64, H, D = 36

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size.

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²																				
	1.5	2.5	4	6	10	25	35	50	70	95	120	160	185	240	300						
6																					
10	18																				
16	6	12	48																		
20	2	7	14																		
25		3	8	15																	
35			2	6	15																
50					4	12															
63						5	20														
80						2	6	22													
100							2	6													
125								2	6												
160									2	6	5										
200	The assembly in this area requires a separate instruction on heating											4	14								
225												2	5								
250													3	7							
315														2	6						
400																4					
500																		4			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.																				

In this area under compliance with the instructions and the defined installation dimensions in the housing there can be an optional number of elements

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification)



Attachment to Certificate
IECEx PTB 09.0009X, Issue No. 4



Supplemental sheet No. 2
regarding compliance certification:

IECEx PTB ...

Equipping of the branch and relay boxes type D7-5101-0980/6436
Housing size in mm L, W = 98; W, H = 64; H, D = 38

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size.

Each established router and each internal connection conductor counts as a conductor; bridges and protection conductors are not counted.

Current /A	cross section in mm ²																
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300		
6																	
10	20																
16	7	13	63														
20	3	8	15														
25		3	8	17													
35			2	6	16												
50					5	13											
63						6	22										
80						2	6	25									
100							2	6									
125								2	6								
160									2	5							
200	The assembly in this area requires a separate instruction on heating											5	15				
225	The assembly in this area requires a separate instruction on heating											3	6				
250	The assembly in this area requires a separate instruction on heating												3	7			
315	The assembly in this area requires a separate instruction on heating													2	4		
400	The assembly in this area requires a separate instruction on heating															3	9
500	The assembly in this area requires a separate instruction on heating																0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example. (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	60	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



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Supplemental sheet No.: 3
regarding compliance certification

IECEX PTB ...

Equipping of the branch and relay boxes type 07-5101-1500/6436
Housing size in mm L, W = 150. W, H = 64. H, D = 36

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size.

Each established router and each internal connection conductor counts as a conductor. bridges and protection conductors are not counted

Current /A	1.5	2.5	4	6	10	25	35	60	70	95	120	150	185	240	300	
6																
10		21														
16		7	14	65												
20		3	8	16												
25			3	9	17											
35				2	6	17										
50						5	14									
63							6	23								
80							2	7	26							
100								3	6							
125									2	6						
160										2	6					
200	The assembly in this area										2	5	16			
225	requires a separate instruction											3	6			
260	on heating												3	8		
315														2	4	
400																3
500																9
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	80	12 (of 48)	25 %
	25	63	38 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



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Supplemental sheet No.: 4

regarding compliance certification:

IECEx PTB ...

Equipping of the branch and relay boxes type

07-6101-0750/8057

Housing size in mm

L, W = 75;

W, H = 80;

H, D = 57

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²																
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300		
6																	
10	27																
16	9	18	70														
20	3	10	20														
25		5	11	22													
35			3	6	21												
50					7	17											
63					2	8	29										
80						3	9	33									
100							4	8									
125								3	3	8	7						
160									3	2	6	20					
200	The assembly in this area requires a separate instruction on heating																
225												3	8				
250												2	5	10			
315													3	6			
400															4	12	
500																2	
600																0	0
	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

When choosing the unassigned continuous currents for the cross sections, the maximum charge currents of the clamps used and the connected cables and conductors are to be observed. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warning verification).



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Supplemental sheet No. 5
regarding compliance certification

IECEX PTB

Equipping of the branch and relay boxes type 07-5101-1750/0057
Housing size in mm L, W = 125; W, H = 80, H, D = 67

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted

Current /A	cross section in mm ²																
	1.5	2	4	6	10	25	35	50	70	95	120	150	185	240	300		
6																	
10	29																
16	10	1	76														
20	4	1	22														
25		5	12	24													
35			3	9	23												
50					7	19											
63					2	9	31										
80						3	10	35									
100							4	9									
125								3	9	8							
160									3	3	7	22					
200	The assembly in this area requires a separate instruction on heating											4	8				
225												2	5	11			
250														3	6		
315																4	13
400																	2
500																	
	24	24	12	0	0	0	0	0	0	0	0	0	0	0	0		

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	18	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



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Supplemental sheet No. 8
regarding compliance certification: IECEX PTB ...

Equipping of the branch and relay boxes type 07-6101-1750/8057
Housing size in mm L, W = 176, W, H = 80, H, D = 67

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size.

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²															
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300	
8																
10	29															
16	10	19	77													
20	4	11	22													
25		5	12	24												
35			3	9	23											
50					7	18										
63					2	8	32									
80						3	10	36								
100							4	9								
125								3	9	8						
160									3	3	7	22				
200	The assembly in this area requires a separate instruction on heating										4	9				
225											2	5	11			
260													3	6		
315															4	13
400																2
500																
	36	36	24	0	8	0	0	0	0	0	0	0	0	0	0	

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



Attachment to Certificate
IECEx PTB 09.0009X, Issue No. 4



Supplemental sheet No.: 7
to compliance certification

IECEx PTB

Equipping of the branch and relay boxes type 07-5101-2500/8057
Housing size in mm L, W = 260; W, H = 80; H, D = 57

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²																
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300		
6																	
10	29																
16	10	19	77														
20	4	11	22														
25		5	12	24													
35			3	9	23												
50					7	18											
63					2	9	32										
80						3	10	36									
100							4	9									
125								3	9	8							
160									3	3	7	22					
200	The assembly in this area requires a separate instruction on heating											4	8				
225												2	5	11			
250														3	6		
315																4	13
400																	2
500																	0
	48	48	38	0	8	0	0	0	0	0	0	0	0	0	0		

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



Attachment to Certificate
IECEX PTB 09.0009X, Issue No. 4



Supplemental sheet No. 8
to compliance certification:

IECEX PTB ...

Equipping of the branch and relay boxes type 07-6101-1221/2080
Housing size in mm L, W = 122, W, H = 120; H, D = 80

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size.

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²																
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300		
6																	
10	40																
16	13	28	103														
20	5	15	30														
25		7	17	32													
35			6	12	31												
50					10	26											
63					3	12	43										
80						4	13	48									
100							6	12									
125								5	13								
160									4	11							
200	The assembly in this area requires a separate instruction on heating											9	30				
225	The assembly in this area requires a separate instruction on heating											5	12				
250	The assembly in this area requires a separate instruction on heating											3	7	15	9		
315	The assembly in this area requires a separate instruction on heating													4	2	6	18
400	The assembly in this area requires a separate instruction on heating																3
500	The assembly in this area requires a separate instruction on heating																
	18	18	19	14	0	0	0	0	0	0	0	0	0	0	0	0	

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



Supplemental sheet No.: 0

to compliance certification: IECEX PTB ...

Equipping of the branch and relay boxes type 07-6101-1221/2090
Housing size in mm L, W = 122; W, H = 120; H, D = 90

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²																	
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300			
6																		
10	43																	
16	14	28	110															
20	6	18	32															
25		7	18	36														
35			5	13	34													
50				2	11	28												
63					3	13	46											
80						5	14	52										
100							6	13										
125								5	13									
160									4	12								
200	The assembly in this area requires a separate instruction on heating											4	10	32				
225												6	12					
250													3	7	16	9		
315														4	2	6	19	
400																	3	
500																		0
	18	18	19	14	0	0	0	0	0	0	0	0	0	0	0	0	0	

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 46)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification)



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Supplemental sheet No. 10
to compliance certification: **IECEX PTB** ...

Equipping of the branch and relay boxes type **07-6101-2201/2080**
Housing size in mm L, W = 220, W, H = 120, H, D = 80

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size.

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted

Current /A	cross section in mm ²															
	1.5	2.5	4	6	10	25	35	60	70	95	120	150	185	240	300	
6																
10	43															
16	14	28	111													
20	8	16	32													
25		8	18	35												
35			5	13	34											
50				2	11	28										
63					3	13	48									
80						5	14	52								
100							6	13								
125								5	14							
160									4	12						
200	The assembly in this area requires a separate instruction on heating										4	10	32			
225												6	12			
250											3	7	16	9		
315													4	2	6	19
400																3
500																
	72	72	36	28	13	10	9	7	0	0	0	0	0	0	0	

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degree Celsius.

In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



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Supplemental sheet No.: 11
to compliance certification: IECEx PTB ...

Equipping of the branch and relay boxes type 07-5101-2201/2090
Housing size in mm L, W = 220; W, H = 120; H, D = 90

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted

Current /A	cross section in mm ²														
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300
6															
10	45														
16	15	30	118												
20	6	17	34												
25		8	19	37											
35			5	14	36										
60				2	11	30									
63					4	14	49								
80						5	15	55							
100							6	14							
125								5	14						
160									5	13					
200										4	11	35			
225											6	13			
250											3	8	17	10	
315													6	2	7
400															4
500															
	72	72	36	26	13	10	9	7	0	0	0	0	0	0	0

In this area under compliance with the instructions and the defined installation dimensions in the housing, there can be an optional number of elements

The assembly in this area requires a separate instruction on heating

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mating of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	18	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification)



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Supplemental sheet No. 12
to compliance certification: IECEX PTB ...

Equipping of the branch and relay boxes type 07-5101-3901/2050
Housing size in mm L, W = 380; W, H = 120; H, D = 80

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted

Current /A	cross section in mm ²																	
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300			
6																		
10	43																	
16	14	28	112															
20	6	18	32															
25		8	18	35														
35			5	13	34													
60				2	11	28												
63					3	13	47											
80						5	14	62										
100							6	13										
125								5	14									
160									4	12								
200	The assembly in this area requires a separate instruction on heating											10	33					
225												6	13					
250												3	7	16	9			
315														4	2	5	19	
400																		3
500																		
	126	126	72	43	26	20	18	7	0	0	0	0	0	0	0	0		

In this area under compliance with the instructions and the defined installation dimensions in the housing, there can be an optional number of elements

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification)



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Supplemental sheet No.: 13
to compliance certification: IECEx PTB ...

Equipping of the branch and relay boxes type 07-6101-1601/6060
Housing size in mm L, W = 160; W, H = 160. H, D = 90

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted

Current /A	cross section in mm ²																	
	1.5	2.5	4	6	10	25	35	60	70	95	120	150	185	240	300			
6																		
10	48																	
16	16	32	125															
20	6	18	36															
25		9	20	39														
35			6	15	38													
50				2	12	31												
63					4	14	52											
80						5	16	58										
100							7	15										
126								6	15									
160									5	13								
200	The assembly in this area requires a separate instruction on heating											5	12	37				
225												6	14					
250												3	8	18	11			
315													6	2	7	22		
400																4		
500																		
	50	50	25	18	18	14	0	0	0	0	0	0	0	0	0	0		

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warning verification)



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Supplemental sheet No.: 14
to compliance certification: IECEX PTB

Equipping of the branch and relay boxes type: 07-5101-2601/6090
Housing size in mm: L, W = 260; W, H = 160; H, D = 90

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size.

Each established router and each internal connection conductor counts as a conductor. Bridges and protection conductors are not counted.

Current /A	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300
6															
10	52														
16	18	34	135												
20	7	20	39												
25		9	22	42											
35			6	16	41										
50				2	13	34									
63					4	16	56								
80						6	17	63							
100							7	18							
125								6	17						
160									5	16					
200	The assembly in this area requires a separate instruction on heating														
225										2	7	15			
260											4	9	20	12	
315												2	5	2	8
400															23
500															4
	100	100	75	36	36	24	12	9	0	0	0	0	0	0	0

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	<u>98 % < 100 %</u>

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warning verification).



Supplemental sheet No. 16
to compliance certification. IECEx PTB ...

Equipping of the branch and relay boxes type 07-5101-3601/6090
Housing size in mm L, W = 360; W, H = 160; H, D = 90

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²																
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300		
6																	
10	53																
16	18	35	138														
20	7	20	40														
25		9	22	43													
35			6	17	42												
50				2	13	35											
63					4	16	58										
80						6	18	64									
100							7	17									
125								8	17								
160									8	15							
200	The assembly in this area requires a separate instruction on heating										6	13	40				
225											2	7	16				
250												4	9	20	12		
315													2	5	2	6	23
400																	4
500																	
	175	175	100	54	42	34	24	9	8	6	0	0	0	0	0	0	

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification)



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Supplemental sheet No.: 16
to compliance certification. IECEX PTB ...

Equipping of the branch and relay boxes type 07-5101-6601/8090
Housing size in mm L, W = 560; W, H = 160; H, D = 90

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²															
	1.6	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300	
6																
10	53															
16	18	35	138													
20	7	20	40													
25		9	22	43												
35			6	17	42											
50				2	13	35										
63					4	16	58									
80						6	18	64								
100							7	17								
125								6	17							
160									6	15						
200	The assembly in this area requires a separate instruction on heating										5	13	40			
225											2	7	18			
250											4	9	20	12		
315												2	5	2	8	23
400																4
500																
	275	275	175	90	72	53	35	18	12	6	0	0	0	0	0	

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example (general)	Gross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



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IECEX PTB 09.0009X, Issue No. 4



Supplemental sheet No.: 17
to compliance certification. IECEX PTB ...

Equipping of the branch and relay boxes type 07-5101-2002/3011
Housing size in mm L, W = 200; W, H = 230; H, D = 110

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size.

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²																
	1.5	2.5	4	6	10	25	35	50	70	95	120	160	185	240	300		
6																	
10	61																
16	21	41	199														
20	8	24	46														
25		11	26	60													
35			7	19	48												
50				2	16	40											
63					5	18	67										
80						7	21	75									
100							9	19									
125								8	20								
160									6	17							
200	The assembly in this area requires a separate instruction on heating										6	15	47				
225											2	8	16				
250												4	11	23	14		
315													2	6	3	9	28
400																	5
500																	
	124	124	72	46	26	21	18	12	0	0	0	0	0	0	0	0	

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	60	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	98 % < 100 %

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



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IECEX PTB 09.0009X, Issue No. 4



Supplemental sheet No. 18
to compliance certification. IECEX PTB ...

Equipping of the branch and relay boxes type 07-6101-2002/3018
Housing size in mm L, W = 200; W, H = 230; H, D = 180

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size.

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²																
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300		
6																	
10	81																
16	28	54	210														
20	11	31	61														
25		16	34	66													
35			10	28	65												
50				3	21	63											
63					7	25	88										
80						9	27	99									
100							12	26									
125								10	28								
160									9	23							
200	The assembly in this area requires a separate instruction on heating										8	20	62				
225											3	11	24				
250												6	15	31	18		
315													3	9	4	12	37
400																	7
500																	
	124	124	72	46	26	21	18	12	0	0	0	0	0	0	0	0	

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	60	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	<u>98 % < 100 %</u>

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



Attachment to Certificate
IECEX PTB 09.0009X, Issue No. 4



Supplemental sheet No.: 19
to compliance certification: IECEX PTB

Equipping of the branch and relay boxes type 07-5101-2802/3011
Housing size in mm L, W = 280; W, H = 230; H, D = 110

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²																
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300		
8																	
10	67																
16	23	44	173														
20	9	26	50														
25		12	28	54													
35			8	21	53												
50				3	17	44											
63					5	20	72										
80						7	22	81									
100							9	21									
125								8	21								
160									7	19							
200	The assembly in this area requires a separate instruction on heating										6	16	51				
225											2	9	20				
250												5	12	25	15		
315													2	7	3	10	30
400																	6
500																	
	180	180	108	66	52	26	22	17	0	0	0	0	0	0	0	0	

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	<u>98 % < 100 %</u>

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



Attachment to Certificate
IECEX PTB 09.0009X, Issue No. 4



Supplemental sheet No.: 20
regarding compliance certification:

IECEX PTB ...

Equipping of the branch and relay boxes type 07-6101-3302/3011
Housing size in mm L, W = 330, W, H = 230, H, D = 110

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size.

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted

Current /A	cross section in mm ²																
	1.5	2.5	4	6	10	25	35	60	70	95	120	150	186	240	300		
6																	
10	69																
16	23	45	178														
20	9	26	61														
26		12	29	68													
35			8	22	54												
50				3	21	45											
63					8	21	74										
80						8	23	83									
100							10	22									
125								9	22								
160									7	19							
200	The assembly in this area requires a separate instruction on heating										7	17	52				
225											2	9	20				
250												5	12	26	15		
315													2	7	3	10	31
400																	0
500																	0
	216	216	144	81	52	42	26	21	10	0	0	0	0	0	0	0	

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions:

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	50	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	<u>98 % < 100 %</u>

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).



Attachment to Certificate
IECEX PTB 09.0009X, Issue No. 4



Supplemental sheet No.: 21
to compliance certification: IECEX PTB ...

Equipping of the branch and relay boxes type 07-5101-3302/3018
Housing size in mm L, W = 330; W, H = 230; H, D = 180

Maximum count of conductors, depending on the cross section and the allowed continuous current for the aforementioned housing size.

Each established router and each internal connection conductor counts as a conductor, bridges and protection conductors are not counted.

Current /A	cross section in mm ²																	
	1.5	2.5	4	6	10	25	35	50	70	95	120	150	185	240	300			
6																		
10	88																	
16	30	59	228															
20	12	34	86															
25		16	37	72														
35			11	28	70													
50				4	23	58												
63					7	27	96											
80						10	30	107										
100							13	28										
125								11	28									
160									10	25								
200	The assembly in this area requires a separate instruction on heating										9	22	67					
225											3	12	26					
250												6	16	33				
315													3	9	20			
400															4	14	40	
500																2	8	
	216	216	144	81	52	42	26	21	10	0	0	0	0	0	0			

max. number of clamps depending on the above mentioned housing sizes and the cross section and maximum nominal cross section of the installed clamps.

Instructions

The maximum charge currents of the clamps used and the connected cables and conductors are to be observed when choosing the unassigned continuous currents for the cross sections. Conductors, in the interior of the housings equipped as in the table above, must be qualified for a temperature of between 70 to 80 degrees Celsius. In case of a usage of values in the table, the simultaneous or charge factors comprising IEC 439 must be kept in mind. Mixing of assemblies with circuits of varying cross sections and currents is possible with a use of the proportionately adjusted table values.

Example: (general)	Cross section/mm ²	Current/A	Number	Workload
	2.5	16	10 (of 30)	33 %
	16	30	12 (of 48)	25 %
	25	63	36 (of 90)	40 %
			Total	<u>98 % < 100 %</u>

Different types of equipment with cross sections smaller or larger than used in this supplementary sheet were not measured. They are to be specially considered in connection with the unassigned continuous currents, and require, in any case, a measurement (warming verification).