

Braunschweig und Berlin

(1)



EC-TYPE-EXAMINATION CERTIFICATE

(Translation)

- (2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - Directive 94/9/EC
- (3) EC-type-examination Certificate Number:

PTB 09 ATEX 1108

- (4) Equipment: Connection and Junction Box Type 8150/1-...- and 8150/2-...- and 8150/2-...-
- (5) Manufacturer: R. STAHL Schaltgeräte GmbH
- (6) Address: Am Bahnhof 30, 74638 Waldenburg (Württ.), Germany
- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential assessment and test report PTB Ex 09-18161.

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2009 EN 60079-1:2007 EN 60079-7:2007 EN 60079-11:2007 EN 60079-18:2004 EN 60079-31:2009
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:
 - (Il 2 G Ex db eb ia/ib mb IIA,IIB,IIC T6, T5, T4
 - 🔄 II 2 G Ex d e ia/ib mb IIA,IIB,IIC, T6,T5,T4 Gb
 - ▲ II 2 D Ex tb IIIC IP66 T80°C, T95°C, T130°C

or

Braunschweig, December 10, 2009

or

☑ II 2 D Ex t IIIC IP66 T80°C, T95°C, T130°C Db

Zertifizierungssektor Explosionsschutz

By-order Dr.-Ing. M. Thedens Oberregierungsrat

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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts of alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

ZSEx10100e.dot



Braunschweig und Berlin

SCHEDULE

(14) EC-TYPE-EXAMINATION CERTIFICATE PTB 09 ATEX 1108

(15) Description of equipment

The Connection and Junction Box type 8150/1-...-... and 8150/2-...-... consists of enclosures out of steel or stainless steel in the type of protection Increased Safety "e" and Protection by enclosures "tD", which may be provided with flanges. Several boxes can be combined with each other.

The Connection and Junction box is equipped with terminals for circuits in the type of protection Increased Safety "e" or Intrinsic Safety "i" or combinations of both. It may optionally be provided with disconnect terminals and fuses. The components for intrinsically safe circuits are marked, e.g. in light blue.

Connection is by means of Ex-type cable entries.

The empty enclosures as well as all mounted and attached components have been tested and certified under a separate examination certificate.

Technical data

Rated voltage*	up to	1100 V
Rated current*		630 A
Rated cross section*	max.	300 mm²

*) depending on type of terminal and ex-components used

Ambient temperature	. depending on the temperature class
	, depending on the temperature of

Туре 8150/1	-60 °C to +70 °C, T4 -60 °C to +55 °C, T5 -60 °C to +40 °C, T6
Туре 8150/2	-60 °C to +75 °C, T6

Protection against contact, foreign bodies and water

IP66 according to IEC 60529

The rated values are maximum values, the actual electrical values depend on the electrical equipment incorporated. Within the scope of these maximum permissible values and with due regard to the standards, the manufacturer specifies the final rated values dependent on the system conditions, mode of operation, utilization category, etc. The characteristic values of the intrinsically safe circuits are to be given by the manufacturer on his own responsibility.

The maximum permissible ambient temperature range of the connection and junction box can be limited by the maximum permissible ambient temperature ranges of the separately certified equipment.

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

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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.



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SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 09 ATEX 1108

(16) Assessment and test report PTB Ex 09-18161

(17) Special conditions for safe use

None

Notes for manufacture 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 data sheets.

Equipment of the type of protection intrinsic safety "i" is to be installed in such a way that the distances required according EN 60079-14 and the creepage distances und clearances between intrinsically safe circuits and non-intrinsically safe circuits are complied with.

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

The connection and junction box with a coating of polyester powder must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

Zertifizierungssektor Explosionsschutz By order:

Dr.-Ing. M. Thedens Oberregierungsrat Braunschweig, December 10, 2009

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Braunschweig und Berlin

1st SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 09 ATEX 1108

(Translation)

Equipment:	Term	inal Box	type 8150/1 and 8150/2	
Marking:	€x>	ll 2 G	Ex db eb ia/ib mb IIA,IIB,IIC T6, T5, T4 or Ex d e ia/ib mb IIA,IIB,IIC, T6,T5,T4 Gb	
	⟨£x⟩	II 2 D	Ex tb IIIC T80°C, T95°C, T130°C IP66 or Ex tb IIIC T80°C, T95°C, T130°C Db IP66	
Manufacturer:	R.	STAHL	Schaltgeräte GmbH	
Address:	Ar	n Bahnh	of 30, 74638 Waldenburg (Württ.), Germany	
Description of	suppl	ements a	and modifications	
The terminal b	ox, ty	pe 8150,	'1 and 8150/2 is modified as listed belo	w:
1) The type de	esigna	tion cha	nges to type 8150/1and 8150/2	
2) The termina	al box	can be p	provided with different gaskets.	
Technical data	<u>l</u>			
Rated current*	·		up to 1100 V max. 630 A max. 300 mm²	
*) depending o	n type	e of term	inal and ex-components used	
Ambient tempe Gasket 1	eratur	e	dependent on the gasket -60 °C to +85 °C	
Gasket 2			-58 °C to +85 °C	
Gasket 3			-25 °C to +76 °C	
Protection aga Foreign bodies			IP66 according to EN 60529	She

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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.



Braunschweig und Berlin

1st SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 09 ATEX 1108

The rated values are maximum values, the actual electrical values depend on the electrical equipment installed. Within the scope of these maximum permissible values and with due regard to the standards, the manufacturer specifies the final rated values dependent on the system conditions, mode of operation, utilization category, etc. The characteristic values of the intrinsically safe circuits are to be given by the manufacturer on his own responsibility.

The maximum permissible ambient temperature range of the terminal housing can be limited by the maximum permissible ambient temperature ranges of the separately certified equipment.

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

Applied standards

EN 60079-0:2009 EN 60079-1:2007 EN 60079-18:2009 EN 60079-31:2009 EN 60079-7:2007

EN 60079-11:2007

Assessment and test report: PTB Ex 11-10333

Zertifizjerungssektor Explosionsschutz On penalf of PTB:



Braunschweig, March 18, 2011

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.



Braunschweig und Berlin

2nd SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 09 ATEX 1108

(Translation)

Equipment: Terminal box type 8150/1-****-***-**** and type 8150/2-****-****

Marking:

 II 2 G Ex db eb ia/ib mb IIA, IIB, IIC T6, T5, T4 or Ex d e ia/ib mb IIA, IIB, IIC, T6, T5, T4 Gb
II 2 D Ex tb IIIC T80 °C, T95 °C, T130 °C IP66 or Ex tb IIIC T80 °C, T95 °C, T130 °C Db IP66

Manufacturer: R. STAHL Schaltgeräte GmbH

Address: Am Bahnhof 30, 74638 Waldenburg (Württ.), Germany

Description of supplements and modifications

The terminal box, type 8150/5-****-**** is modified in the following respects:

- 1) The ambient temperature is extended to a range of -60 °C to +135 °C.
- 2) The temperature class T3 is added.
- 3) The terminal box has been re-assessed on the basis of standards EN 60079-0:2012.
- 4) The marking therefore changes to:

(Ex) II 2 G Ex d e ia ib mb IIA, IIB, IIC T6, T5, T4, T3 Gb
or
(Ex) II 2 G Ex db eb ia ib mb IIA, IIB, IIC T6, T5, T4, T3
(Ex) II 2 D Ex tb IIIC T80 °C, T95 °C, T130 °C, T135 °C Db
or
(Ex) II 2 D Ex tb IIIC T80 °C, T95 °C, T130 °C, T135 °C

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.



Braunschweig und Berlin

2nd SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 09 ATEX 1108

Technical data

Rated voltage*	up to	1100 V
Rated current*		630 A
Rated cross section*	max.	300 mm²

*) depending on type of terminal and ex-components used

Ambient temperature dependent on the gasket

Gasket 1	-60 °C to +135 °C
Gasket 2	-58 °C to +85 °C
Gasket 3	-25 °C to +76 °C

Protection against contact, Foreign bodies and water IP66 according to EN 60529

The rated values are maximum values, the actual electrical values depend on the electrical equipment installed. Within the scope of these maximum permissible values and with due regard to the standards, the manufacturer specifies the final rated values dependent on the system conditions, mode of operation, utilization category, etc. The characteristic values of the intrinsically safe circuits are to be given by the manufacturer on his own responsibility.

The maximum permissible ambient temperature range of the terminal housing can be limited by the maximum permissible ambient temperature ranges of the separately certified equipment.

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

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.

Equipment of type of protection Intrinsic Safety "i" shall be installed such that the clearance and creepage distances that are required according to EN 60079-14 between intrinsically safe and non-intrinsically safe circuits are duly complied with.

When connecting more than one intrinsically safe circuit, the rules and regulations for interconnection have to be observed.

Terminal boxes with a coating of polyester powder finish must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.



Braunschweig und Berlin

2nd SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 09 ATEX 1108

Applied standards

EN 60079-0:2012, EN 60079-1:2007, EN 60079-7:2007, EN 60079-11:2007, EN 60079-18:2009, EN 60079-31:2009

Test report: PTB Ex 12-11244

Zertifizierungssektor Explosionsschutz On behalf of PTB:



Braunschweig, November 28, 2012

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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

SUPPLEMENTARY SHEET 1 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current	cross section / mm ²															
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	57															
16	19	38	147								additic	nal cor	ductor	S		
20	8	22	42								option	al				
25		10	24	46												
35			7	18	45											
50				2	14	37										
63					5	17	61									
80						6	19	69								
100							8	18								
125								7	18							
160									6	16						
200										5	14	43				
225		to be s	specifie	d by the	e					2	8	17				
250		manuf	acturer								4	10	21			
315		(includ	ling tem	nperatu	re rise	test)						2	6	13		
400														2	9	26
500																5
	84	84	56	42	20	16	13	0	0	0	0	0	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 2 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	63															
16	21	42	163								additic	onal cor	nductor	S		
20	9	24	47								option	al				
25		11	26	51												
35			7	20	50											
50				3	16	41										
63					5	19	68									
80						7	21	76								
100							9	20								
125								8	20							
160									7	18						
200										6	15	48				
225		to be s	specifie	d by the	Э					2	9	19				
250		manuf	acturer								4	11	24			
315		(includ	ling terr	nperatu	re rise t	test)						2	7	14		
400														3	9	28
500																5
	108	108	75	36	36	21	18	9	0	0	0	0	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 3 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	61															
16	21	41	158								additic	onal cor	nductor	S		
20	8	24	46								option	al				
25		11	26	50												
35			7	19	49											
50				2	16	40										
63					5	18	66									
80						7	20	74								
100							9	19								
125								8	20							
160									6	17						
200										6	15	47				
225		to be s	pecifie	d by the	Э					2	8	18				
250		manuf	acturer								4	11	23			
315		(includ	ling terr	nperatu	re rise t	test)						2	6	14		
400														3	9	28
500																5
	140	140	112	66	40	32	22	11	7	0	0	0	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 4 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	75															
16	26	50	195								additic	nal cor	nductor	S		
20	10	29	56								option	al		-		
25		14	32	61												
35			9	24	60											
50				3	19	49										
63					6	23	81									
80						8	25	91								
100							11	24								
125								9	24							
160									8	21						
200										7	18	57				
225			specifie		Э					3	10	22				
250		manuf	acturer								5	13	28			
315		(includ	ling terr	nperatu	re rise t	est)						2	8	17		
400														3	11	34
500																6
	140	140	112	66	40	32	22	11	7	0	0	0	0	0	0	0
		max. n	umber								enclosu If the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 5 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	77															
16	26	51	198								additic	nal cor	nductor	S		
20	11	30	57								option	al				
25		14	32	62												
35			9	24	61											
50				3	20	50										
63					6	23	83									
80						9	26	93								
100							11	24								
125								10	25							
160									8	22						
200										7	19	58				
225		to be s	specifie	d by the	e					3	11	23				
250		manuf	acturer								5	14	29			
315		(includ	ling terr	nperatu	re rise t	test)						3	8	17		
400														3	12	35
500																7
	140	140	112	66	40	32	22	11	7	0	0	0	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 6 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	71															
16	24	47	184								additic	nal cor	ductor	S		
20	10	27	53								option	al				
25		13	30	58												
35			9	22	56											
50				3	18	47										
63					6	21	77									
80						8	24	86								
100							10	22								
125								9	23							
160									8	20						
200										7	17	54				
225		to be s	specifie	d by the	e					2	10	21				
250		manuf	acturer								5	13	27			
315		(includ	ling tem	nperatu	re rise t	test)						2	7	16		
400														3	11	32
500																6
	225	225	180	99	64	52	22	17	12	0	0	0	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 7 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	85															
16	29	57	221								additic	onal cor	nductor	S		
20	12	33	64								option	al				
25		15	36	70												
35			10	27	68											
50				4	22	56										
63					7	26	92									
80						10	29	103								
100							12	27								
125								11	27							
160									9	24						
200										8	21	65				
225		to be s	pecifie	d by the	9					3	12	25				
250		manuf	acturer								6	15	32			
315		(includ	ling terr	nperatu	re rise t	est)						3	9	19		
400														4	13	39
500																7
	225	225	180	99	64	52	22	17	12	0	0	0	0	0	0	0
		max. n	umber								enclosu If the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 8 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108



Bestückung der Gehäuse- und Schrank-Verteiler Typ 8150/1-0380-0300-155 Enclosure size in mm L,B = 300 B,H = 380 H,T = 155

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	91															
16	31	60	236								additic	nal cor	ductor	S		
20	13	35	68								option	al				
25		16	38	74												
35			11	29	72											
50				4	23	60										
63					8	28	99									
80						10	31	111								
100							13	29								
125								11	29							
160									10	26						
200										9	22	69				
225		to be s	specifie	d by the	Э					3	13	27				
250			acturer								7	16	34			
315		(includ	ling terr	nperatu	re rise t	est)						3	10	20		
400														4	14	41
500															2	8
	315	315	232	132	96	68	44	23	15	12	7	0	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 9 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	107															
16	36	71	276								additic	onal cor	nductor	S		
20	15	41	80								option	al				
25		19	45	87												
35			13	34	85											
50				5	27	70										
63					9	32	116									
80						12	36	130								
100							15	34								
125								13	34							
160									12	30						
200										11	26	81				
225		to be s	specifie	d by the	Э					4	15	32				
250			acturer								8	19	40			
315		(includ	ling terr	nperatu	re rise t	test)						4	11	24		
400														5	16	48
500															2	9
	315	315	232	132	96	68	44	23	15	12	7	0	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 10 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	90															
16	31	60	234								additic	onal cor	nductor	S		
20	13	35	68								option	al				
25		16	38	74												
35			11	29	72											
50				4	23	59										
63					8	27	98									
80						10	30	110								
100							13	29								
125								11	29							
160									10	26						
200										9	22	69				
225		to be s	specifie	d by the	Э					3	13	27				
250		manuf	acturer								6	16	34			
315		(includ	ling terr	nperatu	re rise t	test)						3	10	20		
400														4	14	41
500															2	9
	360	360	244	138	96	72	44	24	16	12	7	7	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 11 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	107															
16	37	71	278								additic	nal cor	ductor	S		
20	15	42	80								option	al				
25		20	45	88												
35			13	34	85											
50				5	28	71										
63					9	33	116									
80						12	34	130								
100							15	34								
125								14	35							
160									12	30						
200										11	26	82				
225		to be s	specifie	d by the	Э					4	15	32				
250		manuf	acturer								8	19	41			
315		(includ	ling terr	nperatu	re rise t	test)						4	11	24		
400														5	17	49
500															2	9
	360	360	244	138	96	72	44	24	16	12	7	7	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 12 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	109															
16	37	72	281								additic	nal cor	nductor	S		
20	15	42	81								option	al				
25		20	46	89												
35			13	35	86											
50				5	28	71										
63					9	33	118									
80						12	37	132								
100							16	35								
125								14	35							
160									12	31						
200										11	27	83				
225		to be s	specifie	d by the	Э					4	15	32				
250		manuf	acturer								8	20	41			
315		(includ	ling terr	nperatu	re rise t	test)						4	20	41		
400														4	12	24
500															2	9
	360	360	244	138	96	72	44	24	16	12	7	7	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 13 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	114															
16	39	76	294								additic	onal cor	nductor	S		
20	16	44	85								option	al				
25		21	48	93												
35			14	36	90											
50				5	29	75										
63					10	35	123									
80						13	38	138								
100							16	36								
125								14	37							
160									12	32						
200										11	28	87				
225		to be s	specifie	d by the	Э					4	16	34				
250			acturer								8	21	43			
315		(includ	ling terr	nperatu	re rise t	test)						4	12	26		
400														5	18	52
500															2	10
	406	406	290	172	126	68	56	23	15	15	9	0	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 14 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	100															
16	34	66	257								additic	nal cor	nductor	S		
20	14	38	74								option	al				
25		18	42	81												
35			12	32	79											
50				4	26	65										
63					8	30	108									
80						11	34	121								
100							14	32								
125								13	32							
160									11	28						
200										10	24	76				
225		to be s	specifie	d by the	Э					3	14	30				
250		manuf	acturer								7	18	38			
315		(includ	ling terr	nperatu	re rise t	test)						3	11	22		
400														5	15	45
500															2	9
	488	488	305	184	135	72	60	24	16	16	10	10	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 15 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	117															
16	40	77	302								additic	nal cor	nductor	S		
20	16	45	87								option	al				
25		21	49	95												
35			14	37	93											
50				5	30	77										
63					10	35	126									
80						13	39	142								
100							17	37								
125								15	38							
160									13	33						
200										12	29	89				
225		to be s	pecifie	d by the	Э					4	16	35				
250		manuf	acturer								8	21	44			
315		(includ	ling terr	nperatu	re rise t	est)						4	13	26		
400														6	18	53
500															2	10
	488	488	305	184	135	72	60	24	16	16	10	10	0	0	0	0
		max. n	umber								nclosu f the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 16 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	118															
16	40	78	305								additic	onal cor	nductor	S		
20	17	46	88								option	al				
25		22	50	96												
35			14	38	94											
50				5	30	78										
63					10	36	128									
80						14	40	143								
100							17	38								
125								15	38							
160									13	34						
200										12	29	90				
225		to be s	pecifie	d by the	Э					4	17	35				
250		manuf	acturer								9	21	45			
315		(includ	ling terr	nperatu	re rise t	test)						4	13	29		
400														6	18	53
500															2	10
	488	488	305	184	135	72	60	24	16	16	10	10	0	0	0	0
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 17 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	125															
16	43	83	322								additic	nal cor	nductor	S		
20	17	48	93								option	al				
25		23	53	102												
35			15	40	99											
50				6	32	82										
63					11	38	135									
80						14	42	151								
100							18	40								
125								16	40							
160									14	35						
200										12	31	95				
225		to be s	specifie	d by the	9					4	17	37				
250		manuf	acturer								9	23	47			
315		(includ	ling terr	nperatu	re rise t	test)						4	13	28		
400														6	19	56
500															2	11
	605	605	385	205	160	100	84	42	23	23	9	9	7	7	7	7
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 18 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	ss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	123															
16	42	82	318								additic	nal cor	nductor	S		
20	17	48	92								option	al				
25		22	52	100												
35			15	39	98											
50				5	32	81										
63					10	37	133									
80						14	42	149								
100							18	39								
125								16	40							
160									13	35						
200										12	30	94				
225		to be s	specifie	d by the	Э					4	17	37				
250		manuf	acturer								9	22	47			
315		(includ	ling terr	nperatu	re rise t	test)						4	13	28		
400														6	19	56
500															2	11
	696	696	475	284	207	136	92	46	30	25	16	9	7	7	7	7
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 19 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	109															
16	37	72	281								additic	nal cor	nductor	S		
20	15	42	81								option	al				
25		20	46	89												
35			13	35	86											
50				5	28	71										
63					9	33	118									
80						12	37	132								
100							16	35								
125								14	35							
160									12	31						
200										11	27	83				
225		to be s	specifie	d by the	Э					4	15	32				
250		manuf	acturer								8	20	41			
315		(includ	ling terr	nperatu	re rise t	test)						4	12	24		
400														5	17	49
500															2	9
	760	760	488	284	207			48	32	25	16	16	8	8	8	8
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 20 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	126															
16	43	83	325								additic	nal cor	nductor	S		
20	18	49	94								option	al				
25		23	53	103												
35			15	40	100											
50				6	32	83										
63					11	38	136									
80						14	42	152								
100							18	40								
125							2	16	41							
160									14	36						
200										13	31	96				
225		to be s	specifie	d by the	Э					5	18	37				
250		manuf	acturer								9	23	48			
315		(includ	ling terr	nperatu	re rise t	est)						4	14	28		
400														6	19	57
500															2	11
	760	760	488	284	207	144	92	48	32	25	16	16	8	8	8	8
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 21 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	126															
16	43	83	325								additic	nal cor	nductor	S		
20	18	49	94								option	al				
25		23	53	103												
35			15	40	100											
50				6	32	83										
63					11	38	136									
80						14	42	152								
100							18	40								
125							2	16	41							
160									14	36						
200										13	31	96				
225		to be s	specifie	d by the	Э					5	18	37				
250			acturer								9	23	48			
315		(includ	ling terr	nperatu	re rise t	test)						4	14	28		
400														6	19	57
500															2	11
	760	760	488	284	207	144	92	48	32	25	16	16	8	8	8	8
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 22 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	127															
16	43	84	328								additic	nal cor	nductor	S		
20	18	49	95								option	al				
25		23	54	104												
35			16	40	101											
50				6	33	83										
63					11	39	138									
80						15	43	154								
100							18	40								
125							2	16	41							
160									14	36						
200										13	31	97				
225		to be s	specifie	d by the	Э					5	18	38				
250		manuf	acturer								9	23	48			
315		(includ	ling terr	nperatu	re rise t	test)						5	14	29		
400														6	20	58
500															2	11
	760	760	488	284	207	144	92	48	32	25	16	16	8	8	8	8
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 23 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	127															
16	43	84	328								additic	onal cor	ductor	S		
20	18	49	95								option	al				
25		23	54	104												
35			16	41	101											
50				6	33	84										
63					11	39	138									
80						15	43	154								
100							18	41								
125							2	16	41							
160									14	36						
200										13	31	97				
225		to be s	pecifie	d by the	9					5	18	38				
250			acturer	-							9	23	48			
315		(includ	ling terr	nperatu	re rise t	test)						5	14	29		
400														6	20	58
500		İ													2	11
	840	840	550	328	240	160	118	63	32	32	9	9	7	7	7	7
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 24 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	127															
16	44	85	329								additic	onal cor	nductor	S		
20	18	49	95								option	al				
25		23	54	104												
35			16	41	101											
50				6	33	84										
63					11	39	138									
80						15	43	155								
100							18	41								
125							2	16	41							
160									14	36						
200										13	31	97				
225		to be s	specifie	d by the	Э					5	18	38				
250		manuf	acturer								9	23	48			
315		(includ	ling terr	nperatu	re rise t	test)						5	14	29		
400														6	20	58
500															2	11
	1008			369	280	192	142	84	42	39	18	18	14	14	7	7
		max. n	umber								enclosu f the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 25 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	128															
16	44	85	331								additic	nal cor	nductor	S		
20	18	50	96								option	al				
25		23	54	105												
35			16	41	102											
50				6	33	84										
63					11	39	139									
80						15	43	155								
100							18	41								
125							2	16	41							
160									14	36						
200										13	31	98				
225		to be s	specifie	d by the	Э					5	18	38				
250			acturer								9	23	48			
315		(includ	ling terr	nperatu	re rise t	test)						5	14	29		
400														6	20	58
500															3	13
	1140			426	276	220	138	74	50	25	16	16	12	12	12	12
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 26 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	145															
16	50	97	375								additic	nal cor	cuctors	5		
20	20	56	109								option	al				
25		27	62	119												
35			18	46	115											
50				6	37	95										
63					12	44	157									
80						17	49	176								
100							21	46								
125							2	19	47							
160									16	41						
200										15	36	111				
225		to be s	specifie	d by the	Э					5	20	43				
250		manuf	acturer								11	26	55			
315		(includ	ling terr	nperatu	re rise t	test)						5	16	33		
400														7	22	66
500															3	13
	1140			426	276	220	138	74	50	25	16	16	12	12	12	12
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 27 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

curren							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	147															
16	50	97	379									nal cor	ductor	5		
20	21	57	110								option	al	-			
25		27	62	120												
35			18	47	116											
50				7	38	96										
63					13	45	159									
80						17	50	178								
100							21	47								
125							2	19	47							
160									16	42						
200										15	36	112				
225		to be s	specifie	d by the	Э					5	21	44				
250		manuf	acturer								11	27	56			
315		(includ	ling terr	nperatu	re rise t	test)						5	16	33		
400														7	23	66
500															3	13
	1140	1140	760	426	276	220	138	74	50	25	16	16	12	12	12	12
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 28 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current	cross section / mm ²															
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	146															
16	50	97	378								additional conductors					
20	21	57	109								optional					
25		27	62	119												
35			18	47	116											
50				7	38	96										
63					13	45	158									
80						17	49	177								
100							21	47								
125							2	19	47							
160									16	42						
200										15	36	111				
225	to be specified by the								5	21	44					
250	manufacturer									11	26	55				
315		(including temperature rise test)										5	16	33		
400														7	23	66
500															3	13
	1200	1200	825	470	324	222	144	98	40	40	24	21	16	16	16	16
	max. number of terminals depending on the above mentioned enclosure size and the cross section resp. max. permissible conductor cross section of the built-in terminals															

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.
SUPPLEMENTARY SHEET 29 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	127															
16	43	85	329								additic	nal cor	nductor	S		
20	18	49	95								option	al				
25		23	54	104												
35			16	41	101											
50				6	33	84										
63					11	39	138									
80						15	43	154								
100							18	41								
125							2	16	41							
160									14	36						
200										13	31	97				
225		to be s	pecifie	d by the	9					5	18	38				
250		manuf	acturer	-							9	23	48			
315		(includ	ling terr	nperatu	re rise t	est)						5	14	29		
400														6	20	58
500															2	11
	1246	1246	810	492	320	224	174	105	48	48	18	18	14	14	14	14
		max. n	umber			-	-				enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 30 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	154															
16	53	103	399								additic	nal cor	ductor	S		
20	22	60	116								option	al				
25		28	65	126												
35			19	49	123											
50				7	40	101										
63					13	47	167									
80						18	52	187								
100							22	49								
125							2	20	50							
160									17	44						
200										16	38	118				
225		to be s	specifie	d by the	Э					6	22	46				
250		manuf	acturer								11	28	58			
315		(includ	ling terr	nperatu	re rise t	test)						6	17	35		
400														7	24	70
500															3	14
	1452			568	414	284	184		66	50	32	20	16	16	16	16
		max. n	umber								enclosu f the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 31 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108



Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	127															
16	43	84	328								additic	onal cor	ductor	S		
20	18	49	95								option	al				
25		23	54	104												
35			16	40	101											
50				6	33	83										
63					11	39	137									
80						15	43	154								
100							18	40								
125							2	16	41							
160									14	36						
200										13	31	97				
225		to be s	specifie	d by th	e					5	18	38				
250		manuf	acturer								9	23	48			
315		(incluc	ling ten	nperatu	re rise	test)						5	14	29		
400														6	20	57
500															2	11
	1477	1477		574	400	256		126		57	27	27	21	14	14	14
		max. n	umber								enclosu If the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 32 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	138															
16	47	92	358								additic	nal cor	nductor	S		
20	19	54	104								option	al				
25		25	59	113												
35			17	44	110											
50				6	36	91										
63					12	42	150									
80						16	47	168								
100							20	44								
125							2	18	45							
160									15	39						
200										14	34	105				
225		to be s	specifie	d by the	Э					5	19	41				
250		manuf	acturer								10	25	52			
315		(includ	ling terr	nperatu	re rise t	test)						5	15	31		
400														7	21	63
500															3	12
	1520		1045		414		186	111		50	32	21	16	16	16	16
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 33 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	155															
16	53	103	401									additio	nal cor	nductors	5	
20	22	60	116									option	al			
25		28	66	127												
35			19	50	123											
50				7	40	102										
63					13	47	168									
80						18	53	189								
100							22	50								
125							2	20	50							
160									17	44						
200										16	38	118				
225		to be s	specifie	d by the	e					6	22	46				
250			acturer								11	28	59			
315		(includ	ling tem	nperatu	re rise t	test)						6	17	35		
400														8	24	70
500															3	14
	1520	1520	1045	568	414	296	186	111	68	50	32	21	16	16	16	16
		max. n	umber									re size uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 34 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	139															
16	47	92	359								additic	onal cor	ductor	S		
20	20	54	104								option	al				
25		25	59	113												
35			17	44	110											
50				6	36	91										
63					12	42	151									
80						16	47	169								
100							20	44								
125							2	18	45							
160									15	40						
200										14	34	106				
225		to be s	specifie	d by the	Э					5	15	31				
250		manuf	acturer								10	25	53			
315		(includ	ling terr	nperatu	re rise t	test)						5	15	31		
400														7	21	63
500															3	12
	1536	1536	1034	576	414	300	186	111	68	50	32	32	17	17	17	17
		max. n	umber								enclosu of the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 35 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	157															
16	54	105	406									additic	nal cor	ductor	S	
20	22	61	118									option	al	-		
25		29	67	128												
35			19	50	125											
50				7	41	103										
63					14	48	171									
80						18	53	191								
100							23	50								
125							2	20	51							
160									17	45						
200										16	39	120				
225		to be s	specifie	d by the	Э					6	22	47				
250		manuf	acturer								12	29	60			
315		(includ	ling terr	nperatu	re rise t	test)						6	17	36		
400														8	24	71
500															3	14
	1536				414				68	50	32	32	17	17	17	17
		max. n	umber									re size uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 36 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108



Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	ım²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	194															
16	66	129	501									additio	nal cor	ductor	5	
20	27	75	145									option	al			
25		36	82	158												
35			24	62	154											
50				9	50	127										
63					17	59	210									
80						23	66	235								
100							28	62								
125							3	25	63							
160									21	55						
200										20	48	148				
225		to be s	specifie	d by the	Э					7	27	58				
250		manuf	acturer	-							14	35	74			
315		(includ	ling terr	nperatu	re rise t	test)						7	21	44		
400														9	30	88
500															4	17
	1815	1815	1210	728	534	355	236	144	66	66	40	20	16	16	16	16
		max. n	umber									re size uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 37 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	172															
16	59	114	144									additic	nal cor	nductor	S	
20	24	67	129									option	al			
25		32	73	140												
35			21	55	137											
50				8	44	113										
63					15	52	186									
80						20	58	209								
100							25	55								
125							2	22	56							
160									19	49						
200										17	42	131				
225		to be s	specifie	d by the	Э					6	24	51				
250		manuf	acturer								13	31	65			
315		(includ	ling terr	nperatu	re rise t	test)						6	19	39		
400														8	27	78
500															3	15
	2016	2016	1386	752	552	370	248	147	68	68	42	21	16	16	16	16
		max. n	umber									re size uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 38 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	157															
16	54	104	405									additio	nal cor	nductors	S	
20	22	61	117									option	al			
25		29	66	128												
35			19	50	124											
50				7	40	103										
63					13	48	170									
80						18	53	190								
100							23	50								
125							2	20	51							
160									17	45						
200										16	39	119				
225		to be s	specifie	d by the	Э					6	22	47				
250		manuf	acturer								12	28	59			
315		(includ	ling terr	nperatu	re rise t	test)						6	17	35		
400														8	24	71
500															3	14
	2048		1408		558	375	248	150	68	68	42	42	17	17	17	17
		max. n	umber									re size a uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 39 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	1m ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	175															
16	60	116	453									additic	nal cor	nductor	S	
20	25	68	131									option	al			
25		32	74	143												
35			22	56	139											
50				8	45	115										
63					15	53	190									
80						20	59	213								
100							25	56								
125							2	22	57							
160									19	50						
200										18	43	134				
225		to be s	specifie	d by the	e					6	25	52				
250		manuf	acturer								13	32	66			
315		(includ	ling terr	nperatu	re rise t	test)						6	19	40		
400														9	27	79
500															4	16
	2048	2048	1408	768	558	375	248	150	68	68	42	42	17	17	17	17
		max. n	umber									re size uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 40 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	168															
16	58	112	435									addito	nal con	ductors		
20	24	65	126									option	al			
25		31	71	138												
35			21	54	134											
50				8	44	111										
63					15	51	182									
80						20	57	204								
100							24	54								
125							2	22	54							
160									19	48						
200										17	41	128				
225		to be s	specifie	d by the	e					6	24	50				
250		manuf	acturer								12	31	64			
315		(includ	ling terr	nperatu	re rise t	est)						6	18	38		
400														8	26	76
500															3	15
	2576	2576	1792	968	744	470	372	200	102	102	54	54	34	34	34	34
		max. n	umber									re size uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 41 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	211															
16	72	40	545									additio	nal cor	nductors	S	
20	30	82	158									option	al			
25		39	90	172												
35			26	67	168											
50				10	55	139										
63					18	64	229									
80						25	71	256								
100							31	67								
125							2	27	68							
160									23	60						
200										21	52	161				
225		to be s	specifie	d by the	e					8	30	63				
250		manuf	acturer								16	38	80			
315		(includ	ling terr	nperatu	re rise t	test)						8	23	48		
400														10	33	96
500															4	19
	2576	2576	1792	968	744	470	372	200	102	102	54	54	34	34	34	34
		max. n	umber									re size a uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 42 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	218															
16	75	145	563									additio	nal cor	nductors	S	
20	31	85	163									option	al			
25		40	93	178												
35			27	70	173											
50				10	56	143										
63					19	67	236									
80						25	74	265								
100							32	70								
125							3	28	71							
160									24	62						
200										22	54	166				
225		to be s	specifie	d by the	e					8	31	65				
250			acturer	-							16	40	83			
315		(includ	ling tem	nperatu	re rise t	test)						8	24	49		
400				ĺ										11	34	99
500															5	19
	3200	3200	2176	1248	852	600	434	250	136	103	66	66	34	34	34	34
		max. n	umber									re size a uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 43 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	ım²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	240															
16	82	160	620									additio	nal cor	nductor	S	
20	34	93	180									option	al			
25		44	102	196												
35			30	77	191											
50				11	62	158										
63					21	73	260									
80						28	81	291								
100							35	77								
125							3	31	78							
160									27	69						
200										24	59	183				
225		to be s	pecifie	d by the	e					9	34	72				
250		manuf	acturer								18	44	91			
315		(includ	ling terr	nperatu	re rise t	test)						9	26	54		
400														12	37	109
500															5	21
	4025	4025	2737	1573	1136	752	570	315	176	159	81	81	50	50	50	50
		max. n	umber									re size a uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 44 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108



Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	225															
16	77	150	582									additio	nal cor	nductors	S	
20	32	88	169									option	al			
25		41	96	184												
35			28	72	179											
50				10	58	148										
63					20	69	244									
80						26	76	274								
100							33	72								
125							3	29	73							
160									25	64						
200										23	56	172				
225		to be s	specifie	d by the	e					8	32	67				
250			acturer	-							17	41	86			
315		(includ	ling terr	nperatu	re rise t	test)						8	25	51		
400														11	35	102
500															5	20
	4224	4224	2871	1632	1209	765	558	350	170	142	88	88	51	51	51	51
		max. n	umber									re size a uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 45 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108



Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	45										additic	nal cor	nductor	S		
16	15	30	116								option	al	-			
20	6	17	33													
25		8	19	36												
35			5	14	35											
50				2	11	29										
63					4	13	48									
80						5	15	54								
100							6	14								
125								5	14							
160									5	12						
200										4	11	34				
225		to be s	pecifie	d by the	e						6	13				
250		manuf	acturer								3	8	17			
315		(includ	ling terr	nperatu	re rise t	est)							5	10		
400														2	7	20
500																4
	42	42	28	18	10	8	7	0	0	0	0	0	0	0	0	0
		max. n	umber								enclosu f the bu				section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 46 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108



Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	ss sect	ion in n	nm²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	51															
16	17	34	132									additio	nal cor	nductors	S	
20	7	19	38									option	al			
25		9	21	41												
35			6	16	40											
50				2	13	33										
63					4	15	55									
80						6	17	62								
100							7	16								
125								6	16							
160									5	14						
200										5	12	39				
225		to be s	pecifie	d by the	Э					2	7	15				
250			acturer								3	9	19			
315		(includ	ling terr	peratu	re rise t	test)						2	5	11		
400														2	8	23
500																4
	72	72	48	18	17	14	12	0	0	0	0	0	0	0	0	0
		max. n	umber									re size a uilt in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 47 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	ss sec	tion / m	m ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	54															
16	18	36	140									additio	nal cor	nductors	6	
20	7	21	40									option	al			
25		10	23	44												
35			6	17	43											
50				2	14	35										
63					4	16	58									
80						6	18	65								
100							7	17								
125								7	17							
160									6	15						
200										5	13	41				
225		to be s	pecifie	d by the	e					2	7	16				
250		manuf	acturer								4	9	20			
315		(includ	ling terr	peratu	re rise t	test)						2	6	12		
400														2	8	24
500																4
	102	102	72	36	25	20	16	9	0	0	0	0	0	0	0	0
		max. n	umber									re size : uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 48 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108



 Fitting of the terminal box
 Type
 8150/1-0176-0236-150

 Enclosure size in mm
 L,B = 236,5
 B,H = 176,5
 H,T =150

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	71															
16	24	47	183									additio	nal cor	nductors	S	
20	10	27	53									option	al			
25		13	30	58												
35			8	22	56											
50				3	18	46										
63					6	21	76									
80						8	24	86								
100							10	22								
125								9	23							
160									8	20						
200										7	17	54				
225		•	pecifie	-	e					2	10	21				
250			acturer								5	13	27			
315		(includ	ling terr	peratu	re rise t	test)						2	7	16		
400														3	11	32
500																6
	102	102	72	36	25	20	16	9	0	0	0	0	0	0	0	0
		max. n	umber									re size a iilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 49 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	56															
16	19	37	146									additic	nal cor	nductors	S	
20	8	22	42									option	al			
25		10	24	46												
35			7	18	45											
50				2	14	37										
63					5	17	61									
80						6	19	68								
100							8	18								
125								7	18							
160									6	16						
200										5	14	43				
225		to be s	pecifie	d by the	Э					2	8	17				
250		manuf	acturer								4	10	21			
315		(includ	ling terr	nperatu	re rise t	test)						2	6	12		
400														2	8	25
500																5
	168	168	110	54	40	32	27	9	0	0	0	0	0	0	0	0
		max. n	umber									re size iilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 50 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Fitting of the terminal boxType8150/1-0176-0360-150Enclosure size in mmL,B = 360B,H = 176,5H,T = 150

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	m ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	72															
16	24	48	187									additic	nal cor	ductor	S	
20	10	28	54									option	al	-		
25		13	30	59												
35			9	23	57											
50				3	18	47										
63					6	22	78									
80						8	24	88								
100							10	23								
125								9	23							
160									8	20						
200										7	18	55				
225			-	d by the	e					2	10	21				
250			acturer								5	13	27			
315		(includ	ling terr	nperatu	re rise t	test)						2	8	16		
400														3	11	33
500																6
	168	168	110	54	40	32	27	9	6	6	0	0	0	0	0	0
		max. n	umber									re size iilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 51 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	77															
16	26	51	199									additio	nal cor	nductors	S	
20	11	30	58									option	al			
25		14	32	63												
35			9	24	61											
50				3	20	50										
63					6	23	83									
80						9	26	93								
100							11	24								
125								10	25							
160									8	22						
200										8	19	59				
225			-	d by the	Э					3	11	23				
250			acturer								5	14	29			
315		(includ	ling terr	nperatu	re rise t	est)						3	8	17		
400														3	12	35
500																7
	385	385	220	123	80	64	54	21	0	0	0	0	0	0	0	0
		max. n	umber			-	-					re size a uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 52 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current							cro	oss sec	tion / m	nm ²						
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	94															
16	32	62	243									additic	nal cor	ductor	5	
20	13	36	70									option	al			
25		17	40	77												
35			11	30	74											
50				4	24	62										
63					8	28	102									
80						11	32	114								
100							13	30								
125								12	30							
160									10	27						
200										9	23	71				
225		to be s	pecifie	d by the	e					3	13	28				
250		manuf	acturer								7	17	35			
315		(includ	ling terr	nperatu	re rise t	test)						3	10	21		
400														4	14	42
500															2	8
	385	385	220	123	80	64	54	21	15	15	0	0	0	0	0	0
		max. n	umber									re size uilt-in te			section	

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 53 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current		cross section / mm ²														
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	5															
16	36	70	272							additional conductors						
20	15	41	79							otional						
25		19	45	86												
35			13	33	84											
50				5	27	69										
63					9	32	114									
80						12	36	128								
100							15	33								
125								13	34							
160									11	30						
200										10	26	80				
225		to be s	pecifie	d by the	Э					4	15	31				
250		manuf	acturer								8	19	40			
315		(includ	ling terr	nperatu	re rise t	test)						4	11	24		
400														5	16	48
500															2	9
	385	385	220	123	80	64	54	21	15	15	0	0	0	0	0	0
		max. number of terminals depending on the above mentioned enclosure size and the cross section resp. max. permissible conductor cross section of the built-in terminals														

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.

SUPPLEMENTARY SHEET 54 - 54 to EC Type Examination Certificate PTB 09 ATEX 1108

STAHL

Max. Number of conductors depending on cross section and the permissible continuous current: Each incoming conductor and each internal connection wire is counted as a conductor. Bridges and earthing conductors are not counted.

current	cross section / mm ²															
/A	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	105															
16	36	70	272							additional conductors						
20	15	15 41 79								optional						
25		19	45	86												
35			13	34	84											
50				5	27	69										
63					9	32	114									
80						12	36	128								
100							15	34								
125								13	34							
160									11	30						
200										10	26	80				
225		to be s	pecifie	d by the	Э					4	15	31				
250		manuf	acturer								8	19	40			
315		(includ	ling terr	nperatu	re rise t	test)						4	11	24		
400														5	16	48
500															2	9
	812	812	550	287	200	136	114	63	31	31	9	9	7	7	7	7
		max. number of terminals depending on the above mentioned enclosure size and the cross section resp. max. permissible conductor cross section of the built-in terminals														

Notes:

For selection of the permissible constant currents for the cross sections, please observe the maximum load currents of the terminals that are used and of the cables and wires that are connected. Wires inside the enclosures, fitted according to the above table, have to be suitable for a temperature ranging from 70 to 80 degrees Celsius. Simultaneity factors and load factors may be taken into account according to IEC 439 when the table values are applied. Mixed assembly of circuits with different cross sections and currents are possible with a proportionate use of the table values.

Example:	cross section/mm ²	current/A	number of conductors	utilization
(general)	2,5	16	10 (of 30)	= 33 %
	16	50	12 (of 48)	= 25 %
	25	63	36 (of 90)	= 40 %
			total	= <u>98 %</u> < 100 %

Assembly variants having smaller or larger cross sections than the ones stated in this supplementary sheet have not been measured.