



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx PTB 09.0048 issue No.:2  
Status: **Current**  
Date of Issue: **2012-10-22** Page 1 of 4

Certificate history:  
Issue No. 2 (2012-10-22)  
Issue No. 1 (2011-3-15)  
Issue No. 0 (2009-12-2)

Applicant: **R. STAHL Schaltgeräte GmbH**  
Am Bahnhof 30  
74638 Waldenburg  
**Germany**

Electrical Apparatus: **Terminal Box, type 8150/1-\*\*\*\*-\*\*\*\*-\*\*\*-\*\*\*\* and 8150/2-\*\*\*\*-\*\*\*\*-\*\*\*-\*\*\*\***  
*Optional accessory:*

Type of Protection: **"d", "e", "ia/ib", "mb", "tb"**

Marking: Ex d e ia ib mb IIC, IIB, IIA T6, T5, T4, T3 Gb  
or  
Ex db eb ia ib mb IIC, IIB, IIA T6, T5, T4, T3  
  
Ex tb IIIC T80 °C, T95 °C, T130 °C, T135 °C Db  
or  
Ex tb IIIC T80 °C, T95 °C, T130 °C, T135 °C

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

*Position:* Head of Section "Flameproof Enclosures"

*Signature:*  
*(for printed version)*

*Date:*

\_\_\_\_\_  
\_\_\_\_\_

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

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





# IECEx Certificate of Conformity

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Manufacturer: **R. STAHL Schaltgeräte GmbH**  
Am Bahnhof 30  
74638 Waldenburg  
Germany

Additional Manufacturing location  
(s):

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

#### STANDARDS:

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

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-18 : 2004</b> Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:  
DE/PTB/ExTR09.0055/02

Quality Assessment Report:  
DE/BVS/QAR10.0002/02



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description of equipment

The Terminal 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 "tb", which may be provided with flanges. Several boxes can be combined with each other.

The Terminal 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.

Electrical Datas, Nomenclature and Notes for manufacturing and operation: see Annex

### CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

- 1) The ambient temperature is increased from -60 ° to +135 °C.
- 2) The temperature class T3 is supplemented.
- 3) New test according to IEC 60079-0:2011.



Applicant: R. STAHL Schaltgeräte GmbH  
Am Bahnhof 30  
74638 Waldenburg (Württ.)  
Germany

Electrical Apparatus: Terminal Box type 8150/1-\*\*\*\*-\*\*\*\*-\*\*\*-\*\*\*\* and  
8150/2-\*\*\*\*-\*\*\*\*-\*\*\*-\*\*\*\*

Description of equipment

The Terminal 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 "tb", which may be provided with flanges. Several boxes can be combined with each other.

The Terminal 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.

Electrical data

Rated voltage\* up to 1100 V  
Rated current\* max. 630 A  
Rated cross section\* max. 350 mm<sup>2</sup>

\*) depending on type of terminal

Size	width	height	depth
min	100 mm	100 mm	60 mm
max	1200 mm	2200 mm	800 mm

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	IP 66 acc. 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 terminal housing can be limited by the maximum permissible ambient temperature ranges of the separately certified equipment.

### Nomenclature

8150/	*_	****_	****_	***_	*	*	*	*
1	2	3	4	5	6	7	8	9

- 1: type
- 2: 1 = terminal box Ex e and mixed Ex e and Ex i  
2 = terminal box Ex i
- 3: 0100 to 1200, width
- 4: 0100 to 2200, height
- 5: 060 to 800, depth
- 6: material
  - 1: 1.0330
  - 2: 1.4301
  - 3: 1.4404 or 1.4571
- 7: surface
  - 1: powder coated
  - 2: grinded corn 240
  - 3: electro polished
- 8: design
  - 1: screw cover
  - 2: hinge / rotary latches
  - 3: hinge / screw cover
- 9: gasket
  - 1: Gasket 1
  - 2: Gasket 2
  - 3: Gasket 3

### Notes for manufacturing and operation

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

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 the type of protection intrinsic safety "i" is to be installed in such a way that the distances, creepage distances and clearances between intrinsically safe circuits and non-intrinsically safe circuits comply with the requirements of IEC 60079-11.

### **Physikalisch-Technische Bundesanstalt (PTB)**



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

The Terminal 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.



Fitting of the terminal box type 8150/1-0200-0200-100  
Enclosure size / mm L,B = 200 B,H = 200 H,T = 100

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 /A	cross section / mm <sup>2</sup>															
	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													
20	8	22	42													
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											2	8	17			
250												4	10	21		
315													2	6	13	
400															2	9
500																5
	84	84	56	42	20	16	13	0	0	0	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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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





Fitting of terminal box type 8150/1-0250-0180-120  
Enclosure size / mm L,B = 180      B,H = 250      H,T = 120

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 /A	cross section / mm <sup>2</sup>															
	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													
20	9	24	47													
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		to be specified by								6	15	48				
225		the manufacturer								2	9	19				
250		(including temperature rise test)									4	11	24			
315											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. 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																

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0200-0300-100  
Enclosure size / mm L,B = 300 B,H = 200 H,T = 100

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 /A	cross section / mm <sup>2</sup>															
	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													
20	8	24	46													
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		to be specified by								6	15	47				
225		the manufacturer								2	8	18				
250		(including temperature rise test)									4	11	23			
315											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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0200-0300-150  
Enclosure size / mm L,B = 300 B,H = 200 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 /A	cross section / mm <sup>2</sup>															
	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													
20	10	29	56													
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		to be specified by								7	18	57				
225		the manufacturer								3	10	22				
250		(including temperature rise test)									5	13	28			
315											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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0200-0300-155  
Enclosure size / mm L,B = 300 B,H = 200 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 /A	cross section / mm <sup>2</sup>															
	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													
20	11	30	57													
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		to be specified by								7	19	58				
225		the manufacturer								3	11	23				
250		(including temperature rise test)									5	14	29			
315											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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0300-0300-100  
Enclosure size / mm L,B = 300 B,H = 200 H,T = 100

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 /A	cross section / mm <sup>2</sup>															
	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													
20	10	27	53													
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										2	10	21				
250											5	13	27			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0300-0300-150  
Enclosure size / mm L,B = 300 B,H = 300 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 /A	cross section / mm <sup>2</sup>															
	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													
20	12	33	64													
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											3	12	25			
250												6	15	32		
315													3	9	19	
400															4	13
500																7
	225	225	180	99	64	52	22	17	12	0	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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0380-0300-155  
Enclosure size / 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 /A	cross section / mm <sup>2</sup>															
	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													
20	13	35	68													
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		to be specified by								9	22	69				
225		the manufacturer								3	13	27				
250		(including temperature rise test)									7	16	34			
315											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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0380-0300-210  
Enclosure size / mm L,B = 300 B,H = 380 H,T = 210

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 /A	cross section / mm <sup>2</sup>															
	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													
20	15	41	80													
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		to be specified by								11	26	81				
225		the manufacturer								4	15	32				
250		(including temperature rise test)									8	19	40			
315											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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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





Fitting of the terminal box type 8150/1-0300-0400-150  
Enclosure size / mm L,B = 400 B,H = 300 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 /A	cross section / mm <sup>2</sup>															
	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													
20	13	35	68													
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		to be specified by								9	22	69				
225		the manufacturer								3	13	27				
250		(including temperature rise test)									6	16	34			
315											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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0300-0400-210  
Enclosure size / mm L,B = 400 B,H = 300 H,T = 210

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 /A	cross section / mm <sup>2</sup>															
	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													
20	15	42	80													
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										4	15	32				
250											8	19	41			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0300-0400-215  
Enclosure size / mm L,B = 400 B,H = 300 H,T = 215

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 /A	cross section / mm <sup>2</sup>															
	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													
20	15	42	81													
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										4	15	32				
250											8	20	41			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0380-0380-210  
Enclosure size / mm L,B = 380 B,H = 380 H,T = 210

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 /A	cross section / mm <sup>2</sup>															
	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													
20	16	44	85													
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		to be specified by								11	28	87				
225		the manufacturer								4	16	34				
250		(including temperature rise test)									8	21	43			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0400-0400-150  
Enclosure size / mm L,B = 400 B,H = 400 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 /A	cross section / mm <sup>2</sup>															
	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													
20	14	38	74													
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		to be specified by								10	24	76				
225		the manufacturer								3	14	30				
250		(including temperature rise test)									7	18	38			
315											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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0400-0400-210  
Enclosure size / mm L,B = 400 B,H = 400 H,T = 210

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 /A	cross section / mm <sup>2</sup>															
	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													
20	16	45	87													
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		to be specified by								12	29	89				
225		the manufacturer								4	16	35				
250		(including temperature rise test)									8	21	44			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0400-0400-215  
Enclosure size / mm L,B = 400 B,H = 400 H,T = 215

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 /A	cross section / mm <sup>2</sup>															
	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													
20	17	46	88													
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		to be specified by								12	29	90				
225		the manufacturer								4	17	35				
250		(including temperature rise test)									9	21	45			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0360-0550-230  
Enclosure size / mm L,B = 550 B,H = 360 H,T = 230

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 /A	cross section / mm <sup>2</sup>															
	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													
20	17	48	93													
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										4	17	37				
250											9	23	47			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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





Fitting of the terminal box type 8150/1-0380-0600-210  
Enclosure size / mm L,B = 600 B,H = 380 H,T = 210

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 /A	cross section / mm <sup>2</sup>															
	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													
20	17	48	92													
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		to be specified by								12	30	94				
225		the manufacturer								4	17	37				
250		(including temperature rise test)									9	22	47			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0400-0600-150  
Enclosure size / mm L,B = 600 B,H = 400 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 /A	cross section / mm <sup>2</sup>															
	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													
20	15	42	81													
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										4	15	32				
250											8	20	41			
315												4	12	24		
400														5	17	49
500															2	9
	760	760	488	284	207	144	92	48	32	25	16	16	8	8	8	8
	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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0400-0600-210  
Enclosure size / mm L,B = 600 B,H = 400 H,T = 210

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 <sup>2</sup>															
/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													
20	18	49	94													
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										5	18	37				
250											9	23	48			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0600-0400-210  
Enclosure size / mm L,B = 400 B,H = 600 H,T = 210

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 /A	cross section / mm <sup>2</sup>															
	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													
20	18	49	94													
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										5	18	37				
250											9	23	48			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0400-0600-215  
Enclosure size / mm L,B = 600 B,H = 400 H,T = 215

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 /A	cross section / mm <sup>2</sup>															
	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													
20	18	49	95													
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										5	18	38				
250											9	23	48			
315												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. 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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0360-0750-230  
Enclosure size / mm L,B = 750 B,H = 360 H,T = 230

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 /A	cross section / mm <sup>2</sup>															
	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													
20	18	49	95													
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										5	18	38				
250											9	23	48			
315												5	14	29		
400														6	20	58
500															2	11
	840	840	550	328	240	160	118	63	32	32	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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0360-0900-230  
Enclosure size / mm L,B = 900 B,H = 360 H,T = 230

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 /A	cross section / mm <sup>2</sup>															
	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													
20	18	49	95													
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										5	18	38				
250											9	23	48			
315												5	14	29		
400														6	20	58
500															2	11
	1008	1008	648	369	280	192	142	84	42	39	18	18	14	14	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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0600-0600-150  
Enclosure size / mm L,B = 600 B,H = 600 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 /A	cross section / mm <sup>2</sup>															
	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													
20	18	50	96													
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										5	18	38				
250											9	23	48			
315												5	14	29		
400														6	20	58
500															3	13
	1140	1140	760	426	276	220	138	74	50	25	16	16	12	12	12	12

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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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





Fitting of the terminal box type 8150/1-0600-0600-210  
Enclosure size / mm L,B = 600 B,H = 600 H,T = 210

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 <sup>2</sup>															
/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													
20	20	56	109													
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										5	20	43				
250											11	26	55			
315												5	16	33		
400														7	22	66
500															3	13
	1140	1140	760	426	276	220	138	74	50	25	16	16	12	12	12	12
	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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0600-0600-215  
Enclosure size / mm L,B = 600 B,H = 600 H,T = 215

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 /A	cross section / mm <sup>2</sup>															
	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													
20	21	57	110													
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										5	21	44				
250											11	27	56			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0480-0787-230  
Enclosure size / mm L,B = 787 B,H = 480 H,T = 230

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 /A	cross section / mm <sup>2</sup>															
	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													
20	21	57	109													
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										5	21	44				
250											11	26	55			
315												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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0360-1100-230  
Enclosure size / mm L,B = 1100 B,H = 360 H,T = 230

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 /A	cross section / mm <sup>2</sup>															
	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													
20	18	49	95													
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										5	18	38				
250											9	23	48			
315												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. 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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0600-0760-210  
Enclosure size / mm L,B = 760 B,H = 600 H,T = 210

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 /A	cross section / mm <sup>2</sup>															
	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													
20	22	60	116													
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										6	22	46				
250											11	28	58			
315												6	17	35		
400														7	24	70
500															3	14
	1452	1452	968	568	414	284	184	111	66	50	32	20	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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0360-1300-230  
Enclosure size / mm L,B = 1300 B,H = 360 H,T = 230

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 /A	cross section / mm <sup>2</sup>															
	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													
20	18	49	95													
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										5	18	38				
250											9	23	48			
315												5	14	29		
400														6	20	57
500															2	11
	1477	1477	972	574	400	256	206	126	57	57	27	27	21	14	14	14

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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0787-0600-150  
Enclosure size / mm L,B = 600 B,H = 787 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 /A	cross section / mm <sup>2</sup>															
	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													
20	19	54	104													
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										5	19	41				
250											10	25	52			
315												5	15	31		
400														7	21	63
500															3	12
	1520	1520	1045	568	414	296	186	111	68	50	32	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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0787-0600-210  
Enclosure size/ mm L,B = 600 B,H = 787 H,T = 210

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 /A	cross section / mm <sup>2</sup>															
	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													
20	22	60	116													
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										6	22	46				
250											11	28	59			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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





Fitting of the terminal box type 8150/1-0600-0800-150  
Enclosure size / mm L,B = 800 B,H = 600 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 /A	cross section / mm <sup>2</sup>															
	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													
20	20	54	104													
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										5	15	31				
250											10	25	53			
315												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. 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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0600-0800-215  
Enclosure size / mm L,B = 800 B,H = 600 H,T = 215

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 <sup>2</sup>															
/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													
20	22	61	118													
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										6	22	47				
250											12	29	60			
315												6	17	36		
400														8	24	71
500															3	14
	1536	1536	1034	576	414	300	186	111	68	50	32	32	17	17	17	17
	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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0760-0760-300  
Enclosure size / mm L,B = 760 B,H = 760 H,T = 300

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 /A	cross section / mm <sup>2</sup>															
	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													
20	27	75	145													
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										7	27	58				
250											14	35	74			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0787-0787-210  
Enclosure size / mm L,B = 787 B,H = 787 H,T = 210

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 /A	cross section / mm <sup>2</sup>															
	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													
20	24	67	129													
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										6	24	51				
250											13	31	65			
315												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. 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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0800-0800-150  
Enclosure size / mm L,B = 800 B,H = 800 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 /A	cross section in mm <sup>2</sup>															
	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													
20	22	61	117													
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										6	22	47				
250											12	28	59			
315												6	17	35		
400														8	24	71
500															3	14
	2048	2048	1408	768	558	375	248	150	68	68	42	42	17	17	17	17
	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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0800-0800-215  
Enclosure size / mm L,B = 800 B,H = 800 H,T = 215

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 /A	cross section / mm <sup>2</sup>															
	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													
20	25	68	131													
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										6	25	52				
250											13	32	66			
315												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. 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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0800-1000-150  
Enclosure size / mm L,B = 1000 B,H = 800 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 /A	cross section / mm <sup>2</sup>															
	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													
20	24	65	126													
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		to be specified by								17	41	128				
225		the manufacturer								6	24	50				
250		(including temperature rise test)									12	31	64			
315												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. 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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0800-1000-300  
Enclosure size / mm L,B = 1000 B,H = 800 H,T = 300

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 /A	cross section / mm <sup>2</sup>															
	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													
20	30	82	158													
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		to be specified by								21	52	161				
225		the manufacturer								8	30	63				
250		(including temperature rise test)									16	38	80			
315											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. 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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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





Fitting of the terminal box type 8150/1-0800-1200-300  
Enclosure size / mm L,B = 1200 B,H = 800 H,T = 300

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 /A	cross section / mm <sup>2</sup>															
	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													
20	31	85	163													
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		to be specified by								22	54	166				
225		the manufacturer								8	31	65				
250		(including temperature rise test)									16	40	83			
315											8	24	49			
400														11	34	99
500															5	19
	3200	3200	2176	1248	852	600	434	250	136	103	66	66	34	34	34	34

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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-1000-1200-300  
Enclosure size / mm L,B = 1200 B,H = 1000 H,T = 300

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 /A	cross section / mm <sup>2</sup>															
	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													
20	34	93	180													
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										9	34	72				
250											18	44	91			
315												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. 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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0800-1600-300  
Enclosure size / mm L,B = 1600 B,H = 800 H,T = 300

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 /A	cross section / mm <sup>2</sup>															
	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													
20	32	88	169													
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		to be specified by								23	56	172				
225		the manufacturer								8	32	67				
250		(including temperature rise test)									17	41	86			
315											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. 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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0116-0176-091  
Enclosure size / mm L,B = 176,5 B,H = 116,5 H,T = 91

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 /A	cross section / mm <sup>2</sup>															
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	45															
16	15	30	116													
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		to be specified by								4	11	34				
225		the manufacturer									6	13				
250		(including temperature rise test)									3	8	17			
315													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. 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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0176-0176-091  
Enclosure size / mm L,B = 176,5 B,H = 176,5 H,T = 91

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 /A	cross section / mm <sup>2</sup>															
	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													
20	7	19	38													
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		to be specified by								5	12	39				
225		the manufacturer								2	7	15				
250		(including temperature rise test)									3	9	19			
315											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. 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																

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0176-0236-091  
Enclosure size / mm L,B = 236,5 B,H = 176,5 H,T = 91

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 /A	cross section / mm <sup>2</sup>															
	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													
20	7	21	40													
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		to be specified by								5	13	41				
225		the manufacturer								2	7	16				
250		(including temperature rise test)									4	9	20			
315											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. 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																

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0176-0236-150  
Enclosure size / 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 /A	cross section / mm <sup>2</sup>															
	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													
20	10	27	53													
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										2	10	21				
250											5	13	27			
315												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. 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																

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0176-0360-091  
Enclosure size / mm L,B = 360 B,H = 176,5 H,T =91

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 /A	cross section / mm <sup>2</sup>															
	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													
20	8	22	42													
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		to be specified by								5	14	43				
225		the manufacturer								2	8	17				
250		(including temperature rise test)									4	10	21			
315											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. 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																

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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





Fitting of the terminal box type 8150/1-0176-0360-150  
Enclosure size / mm L,B = 360 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 /A	cross section / mm <sup>2</sup>															
	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													
20	10	28	54													
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		to be specified by								7	18	55				
225		the manufacturer								2	10	21				
250		(including temperature rise test)									5	13	27			
315											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. 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																

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0360-0360-091  
Enclosure size / mm L,B = 360 B,H = 360 H,T = 91

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 /A	cross section / mm <sup>2</sup>															
	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													
20	11	30	58													
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		to be specified by								8	19	59				
225		the manufacturer								3	11	23				
250		(including temperature rise test)									5	14	29			
315												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. 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																

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0360-0360-150  
Enclosure size / mm L,B = 360 B,H = 360 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 /A	cross section mm <sup>2</sup>															
	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													
20	13	36	70													
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		to be specified by								9	23	71				
225		the manufacturer								3	13	28				
250		(including temperature rise test)									7	17	35			
315												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. 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

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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



Fitting of the terminal box type 8150/1-0360-0360-190  
Enclosure size / mm L,B = 360 B,H = 360 H,T =190

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 /A	cross section / mm <sup>2</sup>															
	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													
20	15	41	79													
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		to be specified by								10	26	80				
225		the manufacturer								4	15	31				
250		(including temperature rise test)									8	19	40			
315												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															



Fitting of the terminal box type 8150/1-0360-0727-150  
Enclosure size / mm L,B = 727 B,H = 360 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 /A	cross section / mm <sup>2</sup>															
	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													
20	15	41	79													
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		to be specified by								10	26	80				
225		the manufacturer								4	15	31				
250		(including temperature rise test)									8	19	40			
315												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															

When applying the values of this table simultaneous factors or load factors to IEC 439 may be considered. Mixed equipment with circuits of different cross sections and currents is possible if the various values of the table are applied proportionally:

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