



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

Certificate No.: IECEx BVS 16.0080X Issue No: 3 Certificate history:
Status: **Current** Issue No. 3 (2018-03-12)
Date of Issue: **2018-03-12** Page 1 of 4 Issue No. 2 (2017-07-17)
Applicant: **Cooper Crouse-Hinds GmbH** Issue No. 1 (2017-05-11)
Neuer Weg-Nord 49 Issue No. 0 (2016-11-24)
69412 Eberbach
Germany
Equipment: **Terminal box types Ex-Cell-T ** ** ** ** or XL-T ** ** ** ****
Optional accessory:
Type of Protection: **Equipment dust ignition protection by enclosure "t", Equipment protection by increased safety "e"**
Marking: Ex e IIC T* Gb or Ex eb IIC T*
Ex tb IIIC T*°C Db Ex tb IIIC T*°C

* The values of the temperature class and the surface temperature depending on the defined ambient temperature range and the specific power dissipation of each terminal box variant. See clause "Parameters" for details.

Approved for issue on behalf of the IECEx
Certification Body:

Jörg Koch

Position:

Head of Certification Body

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](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturer: **Cooper Crouse-Hinds GmbH**
Neuer Weg-Nord 49
69412 Eberbach
Germany

Additional Manufacturing location(s):

Eaton MEDC Limited
4003 – Crouse-Hinds UK Division
Dorset Road
Sheerness
Kent
ME12 1LP
United Kingdom

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 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:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 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/BVS/ExTR16.0080/03](#)

Quality Assessment Report:

[DE/BVS/QAR11.0009/08](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and type

See Annex

Description

The terminal box type Ex-Cell-T * * * * * or XL-T * * * * * is designed in type of protection Increased Safety "e" for use in areas with potentially explosive gas atmosphere and in type of protection Protection by Enclosure "t" for areas with potentially explosive dust atmospheres.

The used empty enclosure type Ex-Cell range of enclosures is separately tested and certified with IECEx CoC IECEx BAS 15.0077U and with ATEX Certificate BAS 15 ATEX 0099 U.

Inside the enclosure several different terminal blocks can be installed according to the documentation of the manufacturer.

In case of intrinsically safe circuits inside the terminal box it is a simple apparatus according to standard

IEC 60079-11 and a marking must be added to the enclosure. The creepage and clearance distances between intrinsically safe circuits to ground, between two different intrinsically safe circuits and between intrinsically and non-intrinsically safe circuits are taken into account during the installation of the terminals.

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

The schedules of limitation of the used terminals must be handed out by passing the complete and relevant documentation of the terminal to the operator by the manufacturer.



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

The name of the manufacturing location in Sheerness has been changed from **Cooper Crouse Hinds GmbH (UK) Limited** to **Eaton MEDC Limited**.

Annex:

[BVS_16_0080X_Cooper_Issue3_Annex.pdf](#)



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General product information:

Subject and type

Terminal box type Ex-Cell-T ^{aa bb cc dd e ff g} or type XL-T ^{aa bb cc dd e ff g}

- aa Enclosure material
- S1 316L stainless steel - polished
 - S2 304 stainless steel - polished
 - S3 316L stainless steel - natural
 - S5 304 stainless steel - natural
 - P3 316L painted variant
 - P4 304 painted variant
- bb Height of the enclosure noted in cm ¹
Range: 15 up to 160
- cc Width of the enclosure noted in cm ¹
Range: 15 up to 120
- dd Depth of the enclosure noted in cm ¹
Range: 8 up to 40
- e Gland plate
- 0 without
 - 1 one side
 - 2 two sides
 - 3 three sides
 - 4 all sides
- ff Options
- T1 Tag label HPL bonded
 - T2 Tag label HPL bolted
 - S1 Tag label stainless steel bonded
 - S2 Tag label stainless steel riveted
 - MP Mounting plate
 - HASP HASP lock
- g Type of gasket ¹
- 1 Standard
 - 2 Flat gasket
 - 4 Combination of Standard and Flat gasket

¹ Detailed information about the possible combinations of height, width, length and type of gasket are given in the clause parameters.



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Parameters

Electrical parameters

Rated voltage ¹	AC / DC	690 V
Rated current ²	up to	400 A
Cross section ³	up to	240 mm ²

¹ The rated voltage depends on the used type of terminal and the creepage and clearance distances.

² The rated current depends on the used type of terminal, the cross section and the number of conductors.

³ According to the cross section / current table for each size of enclosure.

Thermal parameters (general)

Terminal box size	T _{amb,max}	Maximum permitted dissipation power [W]		
		T6	T5	T4
15-15-08	40 °C	18.0	24.7	---
	50 °C	---	20.2	31.5
	55 °C	11.2	18.0	---
	80 °C	---	6.7	18.0
	100 °C	---	---	15.7
	110 °C	---	---	6.7
22-15-12	40 °C	31.8	43.7	---
	50 °C	---	35.8	55.7
	55 °C	19.9	31.8	---
	80 °C	---	11.9	31.8
	100 °C	---	---	27.8
	110 °C	---	---	11.9
26-20-15	40 °C	47.6	65.5	---
	50 °C	---	53.6	83.3
	55 °C	29.8	47.6	---
	80 °C	---	17.9	47.6
	100 °C	---	---	41.7
	110 °C	---	---	17.9
26-26-15	40 °C	56.7	78.0	---
	50 °C	---	63.8	99.2
	55 °C	35.4	56.7	---
	80 °C	---	21.3	56.7
	100 °C	---	---	49.6
	110 °C	---	---	21.3
30-20-15	40 °C	53.9	74.2	---
	50 °C	---	60.7	94.4
	55 °C	33.7	53.9	---
	80 °C	---	20.2	53.9
	100 °C	---	---	47.2
	110 °C	---	---	20.2
30-26-15	40 °C	64.0	88.0	---
	50 °C	---	72.0	112.1
	55 °C	40.0	64.0	---
	80 °C	---	24.0	64.0
	100 °C	---	---	56.0
	110 °C	---	---	24.0



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Terminal box size	T _{amb,max}	Maximum permitted dissipation power [W]		
		T6	T5	T4
30-30-20	40 °C	84.2	115.8	---
	50 °C	---	94.8	147.4
	55 °C	52.7	84.2	---
	80 °C	---	31.6	84.2
	100 °C	---	---	73.7
	110 °C	---	---	31.6
40-30-20	40 °C	103.9	142.9	---
	50 °C	---	116.9	181.9
	55 °C	65.0	103.9	---
	80 °C	---	39.0	103.9
	100 °C	---	---	90.9
	110 °C	---	---	39.0
40-40-20	40 °C	127.5	175.3	---
	50 °C	---	143.4	223.1
	55 °C	79.7	127.5	---
	80 °C	---	47.8	127.5
	100 °C	---	---	111.5
	110 °C	---	---	47.8
40-50-20	40 °C	151.5	208.3	---
	50 °C	---	170.4	265.1
	55 °C	94.7	151.5	---
	80 °C	---	56.8	151.5
	100 °C	---	---	132.6
	110 °C	---	---	56.8
50-40-20	40 °C	151.5	208.3	---
	50 °C	---	170.4	265.1
	55 °C	94.7	151.1	---
	80 °C	---	56.8	151.5
	100 °C	---	---	132.6
	110 °C	---	---	56.8
50-60-20	40 °C	179.5	246.9	---
	50 °C	---	202.0	314.2
	55 °C	112.2	179.5	---
	80 °C	---	67.3	179.5
	100 °C	---	---	157.1
	110 °C	---	---	67.3
50-61-20	40 °C	207.6	285.4	---
	50 °C	---	233.5	363.3
	55 °C	129.7	207.6	---
	80 °C	---	77.8	207.6
	100 °C	---	---	181.6
	110 °C	---	---	77.8
61-40-20	40 °C	175.5	241.3	---
	50 °C	---	197.4	307.1
	55 °C	109.7	175.5	---
	80 °C	---	65.8	175.5
	100 °C	---	---	153.6
	110 °C	---	---	65.8



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Terminal box size	T _{amb,max}	Maximum permitted dissipation power [W]		
		T6	T5	T4
61-50-20	40 °C	207.6	285.4	---
	50 °C	---	233.5	363.3
	55 °C	129.7	207.6	---
	80 °C	---	77.8	207.6
	100 °C	---	---	181.6
	110 °C	---	---	77.8
61-61-20	40 °C	239.6	329.5	---
	50 °C	---	269.6	419.4
	55 °C	149.8	239.6	---
	80 °C	---	89.9	239.6
	100 °C	---	---	209.7
	110 °C	---	---	89.9
61-76-20	40 °C	287.4	395.2	---
	50 °C	---	323.4	503.0
	55 °C	179.6	287.4	---
	80 °C	---	107.8	287.4
	100 °C	---	---	251.5
	110 °C	---	---	107.8
76-50-25	40 °C	272.4	374.6	---
	50 °C	---	306.5	476.8
	55 °C	170.3	272.4	---
	80 °C	---	102.2	272.4
	100 °C	---	---	238.4
	110 °C	---	---	102.2
76-61-25	40 °C	312.4	429.5	---
	50 °C	---	351.4	546.6
	55 °C	195.2	312.4	---
	80 °C	---	117.1	312.4
	100 °C	---	---	273.3
	110 °C	---	---	117.1
76-76-25	40 °C	371.8	511.3	---
	50 °C	---	418.3	650.7
	55 °C	232.4	371.8	---
	80 °C	---	139.4	371.8
	100 °C	---	---	325.4
	110 °C	---	---	139.4
80-61-25	40 °C	325.0	446.9	---
	50 °C	---	365.6	568.7
	55 °C	203.1	325.0	---
	80 °C	---	121.9	325.0
	100 °C	---	---	284.4
	110 °C	---	---	121.9
80-80-30	40 °C	433.1	595.5	---
	50 °C	---	487.2	757.9
	55 °C	270.7	433.1	---
	80 °C	---	162.4	433.1
	100 °C	---	---	378.9
	110 °C	---	---	162.4



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Terminal box size	T _{amb,max}	Maximum permitted dissipation power [W]		
		T6	T5	T4
91-61-30	40 °C	392.7	540.0	---
	50 °C	---	441.8	687.3
	55 °C	245.4	392.7	---
	80 °C	---	147.3	392.7
	100 °C	---	---	343.6
	110 °C	---	---	147.3
91-76-30	40 °C	464.1	638.2	---
	50 °C	---	522.1	812.2
	55 °C	290.1	464.1	---
	80 °C	---	175.0	464.1
	100 °C	---	---	406.1
	110 °C	---	---	174.0
91-91-30	40 °C	536.0	737.0	---
	50 °C	---	603.0	938.0
	55 °C	335.0	536.0	---
	80 °C	---	201.0	536.0
	100 °C	---	---	469.0
	110 °C	---	---	201.0
100-61-30	40 °C	422.6	581.1	---
	50 °C	---	475.5	739.6
	55 °C	264.1	422.6	---
	80 °C	---	158.5	422.6
	100 °C	---	---	369.8
	110 °C	---	---	158.5
100-80-30	40 °C	518.1	712.4	---
	50 °C	---	582.9	906.7
	55 °C	323.8	518.1	---
	80 °C	---	194.3	518.1
	100 °C	---	---	453.4
	110 °C	---	---	194.3
100-100-30	40 °C	618.7	850.7	---
	50 °C	---	696.0	1082.7
	55 °C	386.7	618.7	---
	80 °C	---	232.0	618.7
	100 °C	---	---	541.3
	110 °C	---	---	232.0
120-61-30	40 °C	493.0	677.9	---
	50 °C	---	554.6	862.8
	55 °C	308.1	493.0	---
	80 °C	---	184.9	493.0
	100 °C	---	---	431.4
	110 °C	---	---	184.9
120-80-30	40 °C	603.2	829.4	---
	50 °C	---	678.6	1055.6
	55 °C	377.0	603.2	---
	80 °C	---	226.2	603.2
	100 °C	---	---	527.8
	110 °C	---	---	226.2

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Terminal box size	T _{amb,max}	Maximum permitted dissipation power [W]		
		T6	T5	T4
120-91-30	40 °C	669.9	921.1	---
	50 °C	---	753.6	1172.3
	55 °C	418.7	669.9	---
	80 °C	---	251.2	669.9
	100 °C	---	---	586.2
	110 °C	---	---	251.2
120-100-30	40 °C	719.2	988.9	---
	50 °C	---	809.1	1258.6
	55 °C	449.5	719.2	---
	80 °C	---	269.7	719.2
	100 °C	---	---	629.3
	110 °C	---	---	269.7
120-120-30	40 °C	835.2	1148.4	---
	50 °C	---	939.6	1461.6
	55 °C	522.0	835.2	---
	80 °C	---	313.2	835.2
	100 °C	---	---	730.8
	110 °C	---	---	313.2
152-91-40	40 °C	916.4	1260.1	---
	50 °C	---	1031.0	1603.7
	55 °C	572.8	916.4	---
	80 °C	---	343.7	916.4
	100 °C	---	---	801.9
	110 °C	---	---	343.7
160-100-40	40 °C	1020.8	1403.6	---
	50 °C	---	1148.4	1786.4
	55 °C	638.0	1020.8	---
	80 °C	---	382.8	1020.8
	100 °C	---	---	893.2
	110 °C	---	---	382.8
160-120-40	40 °C	1175.5	1616.3	---
	50 °C	---	1322.4	2057.1
	55 °C	734.7	1175.5	---
	80 °C	---	440.8	1175.5
	100 °C	---	---	1028.5
	110 °C	---	---	440.8

The lower ambient temperature range depends on the used sealing material

T_{amb,min} = -40 °C (Standard)

T_{amb,min} = -60 °C (Flat gasket 1)

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Thermal parameters for each size of terminal box

Terminal box size 15-15-08

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	44														
10	15	29	114	4)											
16	6	17	33												
20		8	18	36											
25			5	14	35										
35				2	11	29									
50					3	13									
63		5)				5									3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 22-15-12

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	60														
10	20	40	155	4)											
16	8	23	45												
20		11	25	49											
25			7	19	48										
35				2	15	3									
50		5)			5	18	65								
63						7	20	73							
80							8	19							
100								7							3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 26-20-15

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	75														
10	25	50	194	4)											
16	10	29	56												
20		14	32	61											
25			9	24	59										
35				3	19	49									
50					6	23	81								
63						8	25	91							
80			5)				11	24							
100								9							3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 26-26-15

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	80														
10	27	53	207												
16	11	31	60		4)										
20		14	34	65											
25			10	25	64										
35				3	21	53									
50					7	24	87								
63						9	27	97							
80			5)				11	25							
100								10							3)
1)	See explanation below the tables														
2)	See explanation below the tables														



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Terminal box size 30-20-15

Current [A]	Cross section [mm ²]															
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185		240
6	76															
10	26	51	197													
16	11	29	57		4)											
20		14	32	62												
25			9	24	61											
35				3	20	50										
50					6	23	83									
63						9	26	93								
80							11	24								
100			5)					10	24							
125								8								3)
1)	See explanation below the tables															
2)	See explanation below the tables															

Terminal box size 30-26-15

Current [A]	Cross section [mm ²]															
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185		240
6	83															
10	28	55	214													
16	11	32	62		4)											
20		15	35	68												
25			10	26	66											
35				4	21	54										
50					7	25	90									
63						9	28	101								
80							12	26								
100			5)					10	27							
125								9								3)
1)	See explanation below the tables															
2)	See explanation below the tables															

Terminal box size 30-30-20

Current [A]	Cross section [mm ²]															
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185		240
6	101															
10	35	67	262													
16	14	39	76		4)											
20		18	43	83												
25			12	32	80											
35				4	26	66										
50					9	31	110									
63						12	34	123								
80							14	32								
100			5)					13	33							
125								11								3)
1)	See explanation below the tables															
2)	See explanation below the tables															

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Terminal box size 40-30-20

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	106														
10	36	71	275												
16	15	41	80		4)										
20		19	45	87											
25			13	34	84										
35				5	27	70									
50					9	32	115								
63						12	36	129							
80							15	34							
100			5)					13	34						
125									12	30					
160										11	26	81			
200										4	15	32			
225											8	19			
250												4			3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 40-40-20

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	116														
10	39	77	299												
16	16	45	86		4)										
20		21	49	94											
25			14	37	92										
35				5	30	76									
50					10	35	125								
63						13	39	140							
80							17	37							
100			5)					15	37						
125									13	33					
160										12	28	88			
200										4	16	34			
225											8	21			
250												4			3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 40-50-20

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	121														
10	41	81	313												
16	17	47	91		4)										
20		22	51	99											
25			15	39	96										
35				5	31	80									
50					10	37	131								
63						14	41	147							
80							17	39							
100			5)					15	39						
125									13	34					
160										12	30	92			
200										4	17	36			
225											9	22	46		
250												4	13	27	
315														6	19
400															2
3)															
1)	See explanation below the tables														
2)	See explanation below the tables														



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Terminal box size 50-40-20

Current [A]	Cross section [mm ²]															
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	
6	121															
10	41	81	313													
16	17	47	91		4)											
20		22	51	99												
25			15	39	96											
35				5	31	80										
50					10	37	131									
63						14	41	147								
80							17	39								
100			5)					15	39							
125									13	34						
160										12	30	92				
200										4	17	36				
225											9	22	46			
250												4	13	27		
315														6	19	
400															2	3)
1)	See explanation below the tables															
2)	See explanation below the tables															

Terminal box size 50-50-20

Current [A]	Cross section [mm ²]															
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	
6	130															
10	44	86	336													
16	18	50	97		4)											
20		24	55	106												
25			16	41	103											
35				6	34	85										
50					11	40	141									
63						15	44	158								
80							19	41								
100			5)				2	17	42							
125									14	37						
160										13	32	99				
200										5	18	39				
225											10	24	49			
250												5	14	29		
315														6	20	
400															3	3)
1)	See explanation below the tables															
2)	See explanation below the tables															

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Terminal box size 50-61-20

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	136														
10	47	90	352												
16	19	53	102		4)										
20		25	58	111											
25			17	43	108										
35				6	35	89									
50					12	41	148								
63						16	46	165							
80							20	43							
100			5)				2	17	44						
125								15	39						
160									14	33	104				
200									5	19	41				
225										10	25	52			
250											5	15	31		
315													7	21	
400														3	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 61-40-20

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	125														
10	43	83	322												
16	17	48	93		4)										
20		23	53	102											
25			15	40	99										
35				6	32	82									
50					11	38	135								
63						14	42	151							
80							18	40							
100			5)					16	40						
125								14	35						
160									12	31	95				
200									4	17	37				
225										9	23	47			
250											4	13	28		
315													6	19	
400														2	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

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Terminal box size 61-50-20

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	136														
10	47	90	352												
16	19	53	102		4)										
20		25	58	111											
25			17	43	108										
35				6	35	89									
50					12	41	148								
63						16	46	165							
80							20	43							
100			5)				2	17	44						
125								15	39						
160									14	33	104				
200									5	19	41				
225										10	25	52			
250											5	15	31		
315													7	21	
400														3	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 61-61-20

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	145														
10	49	96	374												
16	20	56	108		4)										
20		26	61	118											
25			18	46	115										
35				6	37	95									
50					12	44	157								
63						17	49	176							
80							21	46							
100			5)				2	18	47						
125								16	41						
160									15	36	110				
200									5	20	43				
225										11	26	55			
250											5	16	33		
315													7	22	
400														3	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

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Terminal box size 61-76-20

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	153														
10	52	102	396												
16	22	59	115		4)										
20		28	65	125											
25			19	49	122										
35				7	40	101									
50					13	47	166								
63						18	52	186							
80							22	49							
100			5)				2	20	50						
125								17	44						
160									15	38	117				
200									6	22	46				
225										11	28	58			
250											6	17	35		
315													7	24	
400														3	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 76-50-25

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	155														
10	53	103	400												
16	22	60	116		4)										
20		28	66	127											
25			19	49	123										
35				7	40	102									
50					13	47	168								
63						18	52	188							
80							22	49							
100			5)				2	20	50						
125								17	44						
160									16	38	118				
200									6	22	46				
225										11	28	59			
250											6	17	35		
315													7	24	
400														3	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

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Terminal box size 76-61-25

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	167														
10	57	111	431												
16	24	65	125		4)										
20		31	71	136											
25			21	53	132										
35				8	43	110									
50					14	51	181								
63						19	56	202							
80							24	53							
100			5)				2	21	54						
125								18	47						
160									17	41	127				
200									6	24	50				
225										12	30	63			
250											6	18	38		
315													8	26	
400														3	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 76-76-25

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	180														
10	62	120	464												
16	25	70	135		4)										
20		33	76	147											
25			22	57	143										
35				8	47	118									
50					16	55	195								
63						21	61	218							
80							26	57							
100			5)				2	23	58						
125								20	51						
160									18	44	137				
200									7	25	54				
225										13	33	68			
250											7	20	41		
315													9	28	
400														4	3)
1)	See explanation below the tables														
2)	See explanation below the tables														



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Terminal box size 80-61-25

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	168														
10	58	112	435												
16	24	65	126		4)										
20		31	71	137											
25			21	54	134										
35				8	44	111									
50					15	51	182								
63						20	57	204							
80							24	54							
100			5)				2	22	54						
125								19	48						
160									17	41	128				
200									6	24	50				
225										12	31	64			
250											6	18	38		
315													8	26	
400														3	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 80-80-30

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	200														
10	68	133	515												
16	28	77	149		4)										
20		37	85	163											
25			25	64	159										
35				9	52	131									
50					17	61	216								
63						23	68	242							
80							29	64							
100			5)				3	26	65						
125								22	57						
160									20	49	152				
200									7	28	60				
225										15	36	76			
250											7	22	45		
315													10	31	
400														4	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

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Terminal box size 91-61-30

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	186														
10	65	124	481												
16	26	72	139		4)										
20		34	79	152											
25			23	59	148										
35				8	48	122									
50					16	57	202								
63						22	63	226							
80							27	59							
100			5)				2	24	60						
125									21	53					
160										19	46	142			
200										7	26	56			
225											14	34	71		
250												7	20	42	
315														9	29
400															4
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 91-76-30

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	203														
10	70	135	525												
16	29	79	152		4)										
20		37	86	166											
25			25	65	161										
35				9	53	134									
50					18	62	220								
63						24	69	247							
80							29	65							
100			5)				3	26	66						
125									23	58					
160										21	50	155			
200										8	29	61			
225											15	37	77		
250												8	22	46	
315														10	32
400															4
1)	See explanation below the tables														
2)	See explanation below the tables														

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Terminal box size 91-91-30

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	216														
10	74	144	558												
16	31	84	162		4)										
20		40	92	176											
25			27	69	172										
35				10	56	142									
50					19	66	234								
63						25	73	262							
80							31	69							
100			5)				3	28	70						
125									24	62					
160										22	53	165			
200										8	31	65			
225											16	39	82		
250												8	24	49	
315														11	34
400															4
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 100-61-30

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	188														
10	64	125	486												
16	27	73	141		4)										
20		34	80	154											
25			23	60	149										
35				9	49	124									
50					16	57	204								
63						22	64	228							
80							27	60							
100			5)				3	24	61						
125									21	54					
160										19	46	143			
200										7	27	56			
225											14	34	71		
250												7	20	43	
315														9	29
400															4
1)	See explanation below the tables														
2)	See explanation below the tables														

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Terminal box size 100-80-30

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	211														
10	72	140	545												
16	30	82	158		4)										
20		39	90	172											
25			26	67	168										
35				10	55	139									
50					18	65	229								
63						25	71	256							
80							31	67							
100			5)				3	27	68						
125								23	60						
160									21	52	161				
200									8	30	63				
225										16	38	80			
250											8	23	48		
315													10	33	
400														4	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 100-100-30

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	228														
10	78	152	589												
16	32	89	171		4)										
20		42	97	186											
25			28	73	181										
35				10	59	150									
50					20	70	247								
63						27	77	277							
80							33	73							
100			5)				3	29	74						
125								25	65						
160									23	56	174				
200									9	32	68				
225										17	42	87			
250											9	25	52		
315													11	36	
400														5	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

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Terminal box size 120-61-30

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	191														
10	65	127	493												
16	27	74	143		4)										
20		35	81	156											
25			24	61	152										
35				9	49	126									
50					17	58	207								
63						22	65	232							
80							28	61							
100			5)				3	24	62						
125								21	54						
160									19	47	149				
200									7	27	57				
225										14	35	72			
250											7	21	43		
315													9	30	
400														4	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 120-80-30

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	218														
10	75	145	563												
16	31	85	163		4)										
20		40	93	178											
25			27	70	173										
35				10	56	143									
50					19	67	236								
63						25	74	265							
80							32	70							
100			5)				3	28	71						
125								24	62						
160									22	54	166				
200									8	31	65				
225										16	40	83			
250											8	24	49		
315													11	34	
400														5	3)
1)	See explanation below the tables														
2)	See explanation below the tables														



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Terminal box size 120-91-30

Current [A]	Cross section [mm ²]															
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	
6	232															
10	79	154	598													
16	33	90	173		4)											
20		43	98	189												
25			29	74	184											
35				11	60	152										
50					20	71	251									
63						27	78	281								
80							34	74								
100			5)				3	30	75							
125									26	66						
160										24	57	177				
200										9	33	69				
225											17	42	88			
250												9	25	52		
315														11	36	
400															5	3)
1)	See explanation below the tables															
2)	See explanation below the tables															

Terminal box size 120-100-30

Current [A]	Cross section [mm ²]															
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	
6	240															
10	82	160	620													
16	34	93	180		4)											
20		44	102	196												
25			30	77	191											
35				11	62	158										
50					21	73	260									
63						28	81	291								
80							35	77								
100			5)				3	31	78							
125									27	69						
160										24	59	183				
200										9	34	72				
225											18	44	91			
250												9	26	54		
315														12	37	
400															5	3)
1)	See explanation below the tables															
2)	See explanation below the tables															

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Terminal box size 120-120-30

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	257														
10	88	171	663												
16	36	100	192		4)										
20		47	109	210											
25			32	82	204										
35				12	67	169									
50					22	78	278								
63						30	87	311							
80							37	82							
100			5)				4	33	83						
125								29	73						
160									26	63	196				
200									10	36	77				
225										19	47	91			
250											10	28	58		
315													13	40	
400														5	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 152-91-40

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	269														
10	92	179	694												
16	38	104	201		4)										
20		50	114	220											
25			33	86	214										
35				12	70	177									
50					23	82	291								
63						31	91	326							
80							39	86							
100			5)				4	35	87						
125								30	77						
160									27	67	205				
200									10	38	80				
225										20	49	102			
250											10	29	61		
315													13	42	
400														6	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

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Terminal box size 160-100-40

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	282														
10	97	188	728												
16	40	110	211		4)										
20		52	120	231											
25			35	90	224										
35				13	73	186									
50					25	86	306								
63						33	96	342							
80							41	90							
100			5)				4	36	92						
125								31	81						
160									29	70	215				
200									11	40	85				
225										21	51	107			
250											11	31	64		
315													14	44	
400														6	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

Terminal box size 160-120-40

Current [A]	Cross section [mm ²]														
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
6	307														
10	105	204	791												
16	44	119	230		4)										
20		57	130	251											
25			38	98	244										
35				14	80	202									
50					27	94	332								
63						36	104	372							
80							45	98							
100			5)				4	40	99						
125								34	88						
160									31	76	234				
200									12	44	92				
225										23	56	117			
250											12	34	70		
315													15	48	
400														7	3)
1)	See explanation below the tables														
2)	See explanation below the tables														

- 1) Max. number of terminals depending on the above mentioned apparatus type and the built-in 2 wire terminals.
- 2) Max. number of terminals depending on the above mentioned apparatus type and the max. number of conductors.
- 3) Max. number of conductors depending on the cross-section and allowed continuous current for the mentioned apparatus type. The number of conductors is the sum of all incoming conductors and internal wire connections. Bridge links and earth conductors do not count.
- 4) This area can be used for the installation of further terminals taking into account the definition of the clearance parameters.
- 5) Terminal installation in this area requires separate temperature rise tests for each different variant of installation.



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Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Terminal type MSLKG 5	IECEX KEM 07.0035U ¹	IEC 60079-0:2004, Ed. 4 IEC 60079-7:2006, Ed. 4
Terminal type SAK *	IECEX KEM 06.0014U ¹	IEC 60079-0:2004, Ed. 4 IEC 60079-7:2001, Ed. 3
Terminal ZDU *	IECEX ULD 05.0009U ¹	IEC 60079-0:2004, Ed. 4 IEC 60079-7:2001, Ed. 3
Terminal type SAKK ***	IECEX SIR 05.0032U ¹	IEC 60079-0:2004, Ed. 4 IEC 60079-7:2001, Ed. 3
Terminal type SSK **** KER-EX	IECEX KEM 06.0045U ¹	IEC 60079-0:2004, Ed. 4 IEC 60079-7:2001, Ed. 3

¹ No applicable technical differences

² Technical differences evaluated and found satisfactory