Brief Instructions

Terminal Boxes GL***.T

ENG

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Validity

Specific processes and instructions in this instruction manual require special provisions to guarantee the safety of the operating personnel.

Target Group/Personnel

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismounting lies with the plant operator.

Mounting, installation, commissioning, operation, maintenance and dismounting of the device may only be carried out by appropriate trained and qualified personnel. The instruction manual must be read and understood.

Reference to Further Documentation

Observe laws, standards, and directives applicable to the intended use and the operating location. Observe Directive 1999/92/EC in relation to hazardous areas.

The corresponding datasheets, declarations of conformity, EC-type-examination certificates, certificates and control drawings if applicable (see datasheet) are an integral part of this document. You can find this information under www.pepperl-fuchs.com.

Mounting/Installation/Maintenance

Observe IEC/EN 60079-17 for maintenance and inspection.

Before opening the enclosure make sure that the built-in components are de-energized.

When energized, the enclosure may only be opened for maintenance, if only intrinsically safe circuits are used inside the enclosure.

Safety-relevant markings are found on the type label supplied. Ensure that the type label is present and legible. Take the ambient conditions into account.

The permitted ambient temperatures of the built-in components must not be exceeded.

If there is a defect, the device must be repaired by Pepperl+Fuchs.

To ensure the degree of protection:

- The enclosure must not be damaged, distorted or corroded.
- All seals must be undamaged and correctly fitted.
- All screws of the enclosure/enclosure cover must be tightened with the appropriate torque.
- All cable glands must be suitably sized for the incoming cable diameters.
- All cable glands must be tightened with the appropriate torque.
- All unused cable glands must be sealed or plugged with corresponding sealing plugs, all unused cable entries have to be closed with appropriate stopping plugs.

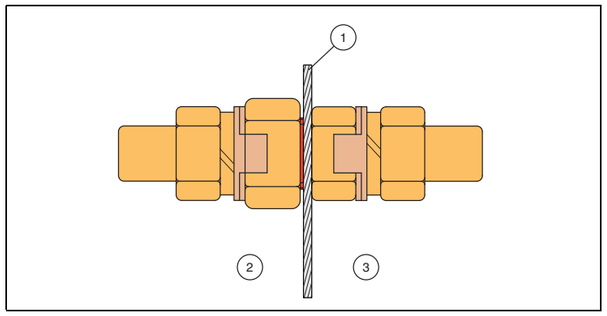
The enclosure should be mounted via the through-holes that are exposed when the lid is removed.

If mounting the enclosure on concrete use expansion anchors. When mounting the enclosure to a steel framework use vibration resistant mounting material.

Ensure that external ground connections exist, are in good condition, and are not damaged or corroded.

In order to prevent condensation in the enclosure, use suitably certified breather drains.

When the internal/external ground bolt is supplied loose, the components should be fitted as shown in the figure below.



1	Enclosure wall
2	Enclosure exterior
3	Enclosure interior

If cable glands are needed for installation, the following points must be considered:

- The cable glands used must be suitably certified for the application.
- The temperature range of the cable glands must be chosen according to the application.
- The cable glands fitted must not reduce the degree of protection.
- Metal cable glands shall be earthed.

In order to guarantee the temperature classes, ensure that power dissipation is lower than the figure stated in the certificate and in below tables of max. connection capacity. Most of the power dissipation arises from current flowing in the cables.

Select suitable conductors in order to ensure that the maximum permitted temperature of the conductors fit to the maximum permitted ambient temperature of the terminal box.

Ensure that the terminals are in good condition, and are not damaged or corroded.

Use only one conductor per terminal.

Observe the tightening torque of the terminal screws.

Use the shortest possible cable lengths and avoid small core cross-sections.

Observe the minimum bending radius of the conductors.

Insulation must extend to within 1mm of the metalwork of the terminal.

When using stranded conductors, crimp wire end ferrules on the conductor ends.

Unused cables and connection lines must be either connected to terminals or securely tied down and isolated.

Insulation by tape alone is not permitted.

If cross connects are fitted, separation walls or protective barriers may be required to preserve clearance distances.

Modifications are permitted only if approved in this instruction manual.

When installing additional components, make sure that these components are listed in the EC-type-examination certificate of the terminal box.

Only use suitably certified terminals.

Do not install fuse terminals, relays, miniature circuit breakers, contactors etc. in the enclosure.

The installer is allowed to add terminals in accordance with the maximum permitted power dissipation shown in the connection capacity tables below.

Example:

Enclosure GL8*.T with 20 terminals WDU 2.5 (current load: 6 A) and 5 terminals WDU 10 (current load: 16 A).

Assumption:

Average conductor length: 0.5 m

Maximum permissible power loss:

29 W Pv = (0.242 W/m x 20 x 2 x 0.5 m) + (0.43 W/m x 5 x 2 x 0.5 m)
= 4.84 W + 2.15 W = 6.99 W Pv = 6.99 W

Special Conditions for Safe Use

Keep the separation distances between all non-intrinsically safe circuits and intrinsically safe circuits according to IEC/EN 60079-14.

Technical Specifications

Dissipation of copper cables in W/m

	Current (A)									
Cable CSA	**1**	**2**	**4**	**6**	**10**	**16**	**20**	**25**	**32**	**40**
1 mm²	0.0168	0.0672	0.269	0.605	1.68	4.3	-	-	-	-
2.5 mm²	0.00672	0.0269	0.108	0.242	0.672	1.72	2.69	4.2	-	-
4 mm²	0.0042	0.0168	0.067	0.151	0.42	1.08	1.68	2.63	4.3	-
6 mm²	0.0028	0.0112	0.045	0.101	0.28	0.717	1.12	1.75	2.87	4.48
10 mm²	0.00168	0.00672	0.027	0.061	0.168	0.43	0.67	1.05	1.72	2.69

Types	see type code table	
Hazardous Area		
ATEX certificate number	SIRA 99 ATEX 3200X	
IECEx certificate number	IECEx SIR 06.0106X	
CE number	CE 0102	
Certification coding for ATX/IECEx		
GL**1.T Increased safety terminal enclosure	Ex II 2 GD	Ex e IIC T* Gb Ex tb IIIC T** Db
GL**3.T Intrinsic safety terminal enclosure	Ex II 2 GD	Ex ia IIC T* Gb Ex tb IIIC T** Db
GL**5.T Increased safety and intrinsic safety terminal enclosure	Ex II 2 GD	Ex e IIC T* Gb Ex ia IIC T* Gb Ex tb IIIC T** Db
Ambient Conditions		
Gas/dust temperature class (T*/T**)	T6/T80 °C @ Ta+40 °C T5/T95 °C @ Ta+55 °C (terminal insulation must be suitable for 100 °C) T4/T130 °C @ Ta+60 °C (terminal insulation must be suitable for 135 °C) **Note: the temperature which a terminal is suitable for is 20 °C higher than that for which it is certified**	
Ambient temperature	-40 ... 40 °C optional -50 ... 60 °C: ■ below -40 °C with appropriate cable glands ■ above 40 °C with ceramic terminals	
IP rating	IP66/67	
Maximum internal power dissipation (MDP)	Dependent on enclosure size - see certification label	
Mechanical		
Material	Glass fiber reinforced polyester	
Finish	As moulded	
Cover screw torque	2 Nm	
Electrical		
Maximum voltage	Dependent on terminals and equipment fitted, but maximum must not exceed 690 V AC (GL1** ... GL4**: 440 V AC max.). See certification label.	
Maximum current	Dependent on terminals, cables and equipment fitted, but maximum must not exceed 350 A. (GL1** ... GL4**: 35 A max.).	
Conformity	EN 60079-0: 2012 EN 60079-7: 2007 EN 60079-11: 2012 EN 60079-31: 2009 EN 60529 IEC 60079-0: Ed 5 IEC 60079-7: Ed 4 IEC 60079-11: Ed 5 IEC 60079-31: Ed 1	

Max. Connection Capacity

Max. Connection Capacity for GL* Enclosures

Max. number of conductors in relation to the cross-section and the permissible continuous current, based on terminal type WDU. GL1** ... GL4** based on terminal type AKZ.

Enclosure GL1*.T (P_{max} 7.5 W):

GL1*.T maximum permitted power dissipation to be built in: 7.5 W																
	CSA [mm²]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	16	16	16	16	16	0	0	0	0	0	0	0	0	0	N/A	N/A
6	16	16	16	16	16	0	0	0	0	0	0	0	0	0	N/A	N/A
10	N/A	N/A	16	16	16	0	0	0	0	0	0	0	0	0	N/A	N/A
16	N/A	N/A	N/A	16	16	0	0	0	0	0	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	16	0	0	0	0	0	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL2*.T (P_{max} 8 W)

GL2*.T maximum permitted power dissipation to be built in: 8 W																
	CSA [mm²]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	28	28	28	28	28	0	0	0	0	0	0	0	0	0	N/A	N/A
6	28	28	28	28	28	0	0	0	0	0	0	0	0	0	N/A	N/A
10	N/A	N/A	28	28	28	0	0	0	0	0	0	0	0	0	N/A	N/A
16	N/A	N/A	N/A	28	28	0	0	0	0	0	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	28	0	0	0	0	0	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL3*.T (P_{max} 8 W)

GL3*.T maximum permitted power dissipation to be built in: 8 W																
	CSA [mm²]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	46	46	46	46	46	0	0	0	0	0	0	0	0	0	N/A	N/A
6	46	46	46	46	46	0	0	0	0	0	0	0	0	0	N/A	N/A
10	N/A	N/A	46	46	46	0	0	0	0	0	0	0	0	0	N/A	N/A
16	N/A	N/A	N/A	31	46	0	0	0	0	0	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	34	0	0	0	0	0	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL4*.T (P_{max} 9 W)

GL4*.T maximum permitted power dissipation to be built in: 9 W																
	CSA [mm^2]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	58	58	58	58	58	0	0	0	0	0	0	0	0	0	N/A	N/A
6	58	58	58	58	58	0	0	0	0	0	0	0	0	0	N/A	N/A
10	N/A	N/A	47	58	58	0	0	0	0	0	0	0	0	0	N/A	N/A
16	N/A	N/A	N/A	27	46	0	0	0	0	0	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	29	0	0	0	0	0	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL7*.T (P_{max} 10.4 W)

GL7*.T maximum permitted power dissipation to be built in: 10.4 W																
	CSA [mm^2]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	44	44	44	44	44	38	28	22	18	14	0	0	0	0	N/A	N/A
6	44	44	44	44	44	38	28	22	18	14	0	0	0	0	N/A	N/A
10	N/A	N/A	44	44	44	38	28	22	18	14	0	0	0	0	N/A	N/A
16	N/A	N/A	N/A	27	44	38	28	22	18	14	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	29	38	28	22	18	14	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	30	28	22	18	14	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	23	22	18	14	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19	18	14	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18	14	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL10*.T (P_{max} 13.8 W)

GL10*.T maximum permitted power dissipation to be built in: 13.8 W																
	CSA [mm^2]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	145	202	202	202	202	168	130	104	86	64	0	0	0	0	N/A	N/A
6	36	54	72	109	182	168	130	104	86	64	0	0	0	0	N/A	N/A
10	N/A	N/A	26	39	65	104	130	104	86	64	0	0	0	0	N/A	N/A
16	N/A	N/A	N/A	15	25	40	61	102	86	64	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	16	26	39	65	86	64	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	16	25	41	67	64	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	12	21	34	53	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	16	26	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	16	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL13*.T (P_{max} 31.4 W)

GL13*.T maximum permitted power dissipation to be built in: 31.4 W																
	CSA [mm^2]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	335	414	414	414	414	342	264	210	58	44	44	0	0	0	N/A	N/A
6	83	125	167	251	414	342	264	210	58	44	44	0	0	0	N/A	N/A
10	N/A	N/A	60	90	151	241	264	210	58	44	44	0	0	0	N/A	N/A
16	N/A	N/A	N/A	35	59	94	141	210	58	44	44	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	37	60	90	151	58	44	44	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	38	58	96	58	44	44	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	29	49	59	44	44	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24	38	44	44	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24	38	44	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	33	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL5*.T (P_{max} 9.4 W)

GL5*.T maximum permitted power dissipation to be built in: 9.4 W																
	CSA [mm^2]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	30	30	30	30	30	24	18	0	0	0	0	0	0	0	N/A	N/A
6	30	30	30	30	30	24	18	0	0	0	0	0	0	0	N/A	N/A
10	30	30	30	30	30	24	18	0	0	0	0	0	0	0	N/A	N/A
16	30	30	30	30	30	24	18	0	0	0	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	30	24	18	0	0	0	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	24	18	0	0	0	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	18	0	0	0	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL8*.T (P_{max} 12 W)

GL8*.T maximum permitted power dissipation to be built in: 12 W																
	CSA [mm^2]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	84	84	84	84	84	70	54	42	36	26	0	0	0	0	N/A	N/A
6	58	84	84	84	84	70	54	42	36	26	0	0	0	0	N/A	N/A
10	N/A	N/A	42	63	84	70	54	42	36	26	0	0	0	0	N/A	N/A
16	N/A	N/A	N/A	24	41	65	54	42	36	26	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	26	42	54	42	36	26	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	26	40	42	36	26	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	20	34	36	26	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	26	26	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17	26	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL11*.T (P_{max} 15.5 W)

GL11*.T maximum permitted power dissipation to be built in: 15.5 W																
	CSA [mm^2]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	160	160	160	160	160	136	104	42	34	26	26	22	20	14	N/A	N/A
6	61	91	122	160	160	160	104	42	34	26	26	22	20	14	N/A	N/A
10	N/A	N/A	44	66	110	136	104	42	34	26	26	22	20	14	N/A	N/A
16	N/A	N/A	N/A	25	43	68	103	42	34	26	26	22	20	14	N/A	N/A
20	N/A	N/A	N/A	N/A	27	44	66	42	34	26	26	22	20	14	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	28	42	42	34	26	26	22	20	14	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	21	36	34	26	26	22	20	14	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17	28	26	26	22	20	14	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17	26	26	22	20	14	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17	24	22	20	14	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	22	20	14	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	19	14	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	14	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL14*.T (P_{max} 31.4 W)

GL14*.T maximum permitted power dissipation to be built in: 31.4 W																
	CSA [mm^2]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	323	414	414	414	414	342	264	210	58	44	0	0	0	0	N/A	N/A
6	80	121	161	242	404	342	264	210	58	44	0	0	0	0	N/A	N/A
10	N/A	N/A	58	87	145	233	264	210	58	44	0	0	0	0	N/A	N/A
16	N/A	N/A	N/A	34	56	91	136	210	58	44	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	36	58	87	145	58	44	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	37	55	93	58	44	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	28	47	58	44	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	37	44	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	36	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL6*.T (P_{max} 9.4 W)

GL6*.T maximum permitted power dissipation to be built in: 9.4 W																
	CSA [mm^2]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	68	68	68	68	68	56	44	0	0	0	0	0	0	0	N/A	N/A
6	54	68	68	68	68	56	44	0	0	0	0	0	0	0	N/A	N/A
10	N/A	N/A	39	59	68	56	44	0	0	0	0	0	0	0	N/A	N/A
16	N/A	N/A	N/A	23	38	56	44	0	0	0	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	24	39	44	0	0	0	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	25	37	0	0	0	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	19	0	0	0	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL9*.T (P_{max} 13.8 W)

GL9*.T maximum permitted power dissipation to be built in: 13.8 W																
	CSA [mm^2]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	122	122	122	122	122	102	80	62	52	38	0	0	0	0	N/A	N/A
6	53	79	106	122	122	102	80	62	52	38	0	0	0	0	N/A	N/A
10	N/A	N/A	38	57	95	102	80	62	52	38	0	0	0	0	N/A	N/A
16	N/A	N/A	N/A	22	37	59	80	62	52	38	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	23	38	57	62	52	38	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	24	36	61	52	38	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	18	31	49	38	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	24	38	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	24	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosure GL12*.T (P_{max} 15.5 W)

GL12*.T maximum permitted power dissipation to be built in: 15.5 W																
	CSA [mm^2]															
Current [A]	0.5	0.75	1	1.5	2.5	4	6	10	16	25	35	50	70	95	150	240
3	198	276	276	276	276	225	176	70	58	44	0	0	0	0	N/A	N/A
6	49	74	99	148	247	228	176	70	58	44	0	0	0	0	N/A	N/A
10	N/A	N/A	35	53	89	142	176	70	58	44	0	0	0	0	N/A	N/A
16	N/A	N/A	N/A	20	34	55	83	70	58	44	0	0	0	0	N/A	N/A
20	N/A	N/A	N/A	N/A	22	35	53	70	58	44	0	0	0	0	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	22	34	57	58	44	0	0	0	0	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	17	29	46	44	0	0	0	0	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	22	35	0	0	0	0	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	22	0	0	0	0	N/A	N/A
80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13	0	0	0	0	N/A	N/A
100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	N/A	N/A
125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	N/A	N/A
160	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	N/A	N/A
200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Type Code

Enclosure Type								
GL	Glass fiber reinforced polyester GRP							
	Enclosure Size							
	nn	Enclosure size from standard range						
		Grounding Plate						
		0	none					
		1	galvanized steel					
		2	brass					
		3	stainless steel					
			Type of Explosion Protection					
			0	non-Ex application				
			1	Ex e, Ex tb				
			3	Ex ia, Ex tb				
			5	Ex ia / Ex e, Ex tb				
				Enclosure Depth				
				nn	enclosure depth from standard range			
					Type of Solution			
					T	Terminal box		
						Variant Number		
						Cxxxxxx	Configured variants	
						Yxxxxxx	Engineered variants	
Example:								
GL	11	2	1	D	.T	-C123456		
Terminal box GRP, size 11, grounding plate brass, certified Ex e and Ex tb, enclosure depth D, configured variant								