

CEAG Products
Explosion protected energy distribution

CROUSE-HINDS
SERIES



GHG 71 Aluminium Enclosures - Ex-e and Industrial

Junction and terminal enclosures for harsh and hazardous applications



EATON

Powering Business Worldwide

GHG 71 Aluminium enclosures for harsh and hazardous applications

GHG 71 - 8 sizes for almost any application

Applications

Approved for use in harsh and hazardous areas, the GHG 71 series of enclosures offers a wide range of application possibilities, e.g.

- Chemical industry
- Heavy industry
- Petrochemical industry

Regardless of the industrial application, the outstanding feature of the enclosure is the high level of mechanical protection. It protects the integrated components reliably against dust and moisture.

Pressure die-cast aluminium enclosures with numerous configuration options

The modern aluminium die-casting method enables a large variety of product configurations with high quality surfaces and cost-efficient construction.

- Various mounting fixtures for terminal blocks or terminal rails
- Compared to conventional terminal enclosures, the low cut shape of the enclosure side walls make wiring easier when the cover is removed.
- Different component configurations to meet specific requirements

Terminal enclosures with a system

Eight compatible enclosure sizes provide solutions for a wide range of installation technology applications. Whether junction boxes for currents from 125 A or terminal enclosures for instrumentation with up to 190 terminal points – it is possible to fulfil almost every requirement.

Material

• AlSi alloy

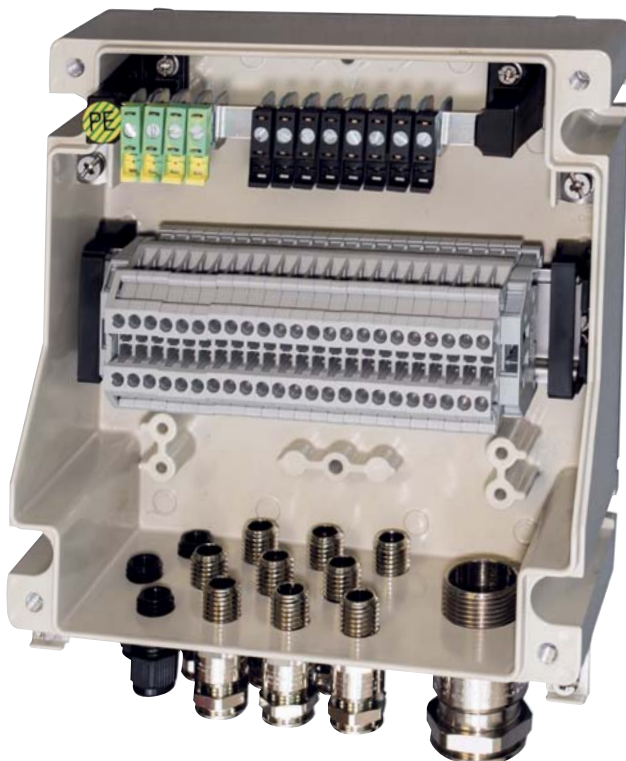
The Aluminium die-cast AlSi10Mg (Cu <0,1%) is a lightweight, high-strength material that is also extremely corrosion-resistant.

• Pressure die-casting

The parts are manufactured using the pressure die-casting method with extreme precision and with low tolerances. As a result, the enclosure cover and base always fit together perfectly.

Internal and external earth connection terminals are standard

Both internal and external earth connection terminals are a standard feature for all enclosure sizes and versions. Consequently, the terminal enclosure can be integrated in the equipotential bonding system without any further installation work.



Technical features

- Robust design to meet high impact strength requirements and withstand moisture, dust and aggressive ambient conditions
- Cost-saving installation due to the easy termination technique and the low-cut enclosure walls
- All metal fixing elements are made of V4A stainless steel
- Stainless steel cable entries (optional)
- Internal and external earth connection terminals are standard
- High degree of protection IP66 / IP67 / IP68 4) / IP69
- Large temperature range from -55 °C to + 55 °C
- High impact resistance IK 10 (up to 20 Joule)

Innovative technology for easy wiring

In the case of small enclosures in particular, the available space for the wiring is cramped and, as a result, the arrangement of the conductors is usually unclear.

Here, thanks to an optimized connection compartment with high performance terminals, this problem has been remedied.

- Conductors up to 2.5 mm² can be connected securely and clearly to 4 electrically isolated terminal points, each of which features two terminal screws. 2 potential can be connected by bridges.

- In addition, the two standard earth terminals inside the enclosure can each accommodate two conductors from 2.5 mm² up to 6 mm² (size 1/2) and from 2.5 mm² up to 10 mm² (size 3-5), so that it is even possible to connect and distribute three five-wire cables in a manner that is very clear and controllable at all times in the smallest size 1 enclosure.
- All the screw elements are made of V4A stainless steel external and V2A internal. This means: a high corrosion protection and a high mechanical strength.



PE bus bars

To make installation easy, there are PE bus bars mounted on raised mounting supports at the shallow end of the enclosure.

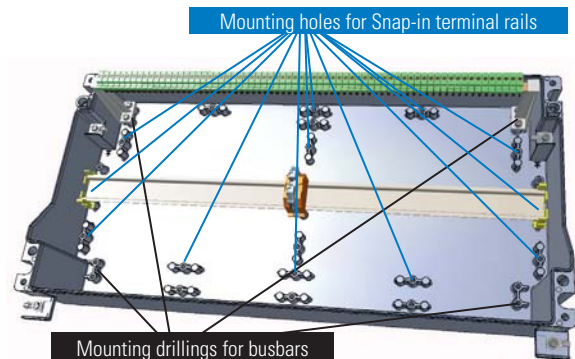
If required, the rails can also be mounted in the lower area of the enclosure. In this way, all the PE connections can be wired together, thus saving time.



Support and bus bar rails with a system

- From size 3: terminal bus bars for the neutral and the PE conductor
- Large number of mounting holes

- For rigid conductors up to 6 mm² and flexible conductors up to 4 mm²
- Snap-in terminal support rails
- Optional snap-in grid for flexible positioning



Plug-in terminal block (Wago PUSH WIRE®)

The terminal block with its 4x4 plug-in terminals is mounted at an angle to allow the easy connection of 16 cables up to 2.5 mm².

- Clear cable arrangement – even in confined spaces
- Connection of the stripped wires without a screwdriver



Pillar terminals for power distribution

The tried and tested pillar terminals can be used in sizes 2 and 3.

- Easy handling
- Cost savings during installation, as a large number of conductors can be connected in a very small area

- Large terminal capacity (up to 4 conductors up to 4 mm² per terminal; rated cross section-max. 10 mm²)
- Permanently safe electrical connections due to spring-loaded pressure elements



Simple and cost-saving installation

- Enclosure size 6-8: side cover hinges for easy opening of the enclosure cover facilitate installation, maintenance and rewiring
- Hinges made of stainless steel – protected against corrosion and not susceptible to aggressive process media

Optimized wall thickness for immediate bolting

The optimized wall thickness of the robust Aluminium pressure die-cast enclosures enables the screw-in of cable glands M12 up to M63 directly into the housing without lock nut.



The aluminium series supplements our product range

Ex junction and terminal enclosures for the distribution of electrical energy and process control in hazardous areas.

We can provide a suitable enclosure solution for any field of application:

Aluminium

This enclosure material is not only extremely robust, but it is also light weight and can be used for challenging applications with a high chemical, climatic or mechanical stress.

Plastic

Cost-effective solution for most wiring tasks.

Stainless steel

Robust construction that ensures a high degree of safety under difficult conditions, e.g. offshore.



Painted enclosure solutions for Ex-i applications

Painted enclosures (RAL 5015) are available especially for instrumentation and control engineering Ex-i applications. This makes it possible to discern intrinsically safe installations from a distance.

Prefabricated or individually engineered terminal enclosures – all the advantages of a single-source solution

The junction and terminal enclosures of the GHG 71 series are available in eight sizes and provide optimized solutions for almost all requirements of a modern installation technology.

All advantages at a glance

- Extremely robust
- Very good thermal properties
- Corrosion protected
- Suited for all applications in the gas Ex zones 1 and 2 and the dust Ex zones 21 and 22
- Low maintenance
- Individual configurations
- Permanently safe connections
- Robust enclosure
- Low-cut side walls for easy installation
- High degree of protection IP66 / IP67 / IP68 / IP69
- Available in 8 sizes
- Suitable for metal and plastic glands
- Generously-dimensioned connection areas
- Clear terminal arrangement
- Screw elements made of V4A stainless steel
- High mechanical strength
- Large terminal capacity
- Easy handling
- High protection against electro-magnetic interferences



Product overview

GHG 71 enclosure

Technical data - all enclosure Types

| | GHG 713 .. Empty enclosure Ex | GHG 711/712 .. Terminal/junction box Ex | GHG 716 .. (714/15) Industrial enclosures |
|--|---|---|--|
| EC-Type Examination Certificate | BVS 15 ATEX E 127 U | BVS 15 ATEX E 007 | |
| IIEC-Ex Certificate of Conformity | IECEX BVS 15.1044 U | IECEX BVS 16.0007 | |
| Permissible ambient temperature | | -55 °C up to +55 °C ¹⁾ | |
| Operating-temperature range | -55 °C up to + 95 °C | | -55 °C up to + 95 °C |
| IK-class according to EN 50102 | IK 10 ± 20 J | IK 10 ± 20 J | IK 10 ± 20 J |
| Rated voltage | up to 690 V AC / DC | up to 690 V AC / DC ¹⁾ | up to 690 V AC / DC |
| Rated current | up to 125A ²⁾ | up to 125 A ²⁾ | up to 125A ²⁾ |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz |
| Enclosure material | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) |
| Enclosure colour | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, or unpainted (on request) |
| Degree of protection accd. to EN 60529 | IP66 / IP67 / IP68 ⁴⁾ / IP69 | IP66 ³⁾ | IP66 / IP67 / IP68 ⁴⁾ / IP69 |

¹⁾ Depends on used components

²⁾ Depends on the configuration

³⁾ Standard; other degree of protection on request

⁴⁾ On request

Ordering key

| Prefix | Application | size | Paint/other options | Configuration |
|------------------------------------|---|-------------------------------------|---|---------------|
| GHG71 | X | X | XXX | R XXXX |
| Aluminium enclosure product series | 1 Junction Box hazardous area | 1 size 1 (77 x 77 x 40mm) | 101 paint colour grey RAL 7032 | R **** |
| | 2 Terminal Box hazardous area | 2 size 2 (83 x 111 x 60mm) | 201 paint colour blue RAL 5015 | |
| | 3 Empty enclosure hazardous area | 3 size 3 (128 x 128 x 80mm) | *** other paint/options on request | |
| | 4 Junction Box Industrial | 4 size 4 (128 x 223 x 80mm) | | |
| | 5 Terminal Box Industrial | 5 size 5 (183 x 183 x 95mm) | | |
| | 6 Empty Enclosure Industrial | 6 size 6 (233 x 283 x 110mm) | | |
| | | 7 size 7 (283 x 283 x 110mm) | | |
| | | 8 size 8 (283 x 569 x 110mm) | | |



The right choice

To help you make the right choice, the following pages show a large selection of prefabricated junction and terminal boxes and empty enclosures that can be equipped individually. If you require other configurations, then just ask us. We will supply you with an individually engineered solution.

Ordering details/dimension drawings

GHG 71*1 - size 1

Ordering details

| Type | Colour (RAL) | Order No. |
|------|--------------|-----------|
|------|--------------|-----------|

Enclosures for industrial application



| | | |
|----------------|------|---------------------------|
| GHG 716 1 SK | 7032 | GHG 716 1101 R0001 |
| GHG 716 1 ZFKK | 7032 | GHG 716 1101 R0002 |

Enclosures component certified accd. to ATEX/IECEX



| | | |
|----------------|------|---------------------------|
| GHG 713 1 SK | 7032 | GHG 713 1101 R0001 |
| GHG 713 1 ZFKK | 7032 | GHG 713 1101 R0002 |



| | | |
|----------------|--------------------|---------------------------|
| GHG 713 1 ZFKK | 5015 ¹⁾ | GHG 713 1201 R0001 |
| GHG 713 1 ZFKK | 5015 ¹⁾ | GHG 713 1201 R0002 |

| Type | Colour (RAL) | Terminal type | Cable glands ²⁾ | Clamping range | Order No. |
|------|--------------|---------------|----------------------------|----------------|-----------|
|------|--------------|---------------|----------------------------|----------------|-----------|

Configured devices accd ATEX/IECEX



| | | | | | |
|-----------|------|------------------------------|---------|-------------|---------------------------|
| GHG 711 1 | 7032 | SK - 4 x 2.5 mm ² | 3 x M16 | Ø 7 - 12 mm | GHG 711 1101 R0011 |
|-----------|------|------------------------------|---------|-------------|---------------------------|



| | | | | | |
|-----------|------|--------------------------------|---------|-------------|---------------------------|
| GHG 711 1 | 7032 | ZFKK - 5 x 2.5 mm ² | 3 x M16 | Ø 7 - 12 mm | GHG 711 1101 R0012 |
|-----------|------|--------------------------------|---------|-------------|---------------------------|



| | | | | | |
|-----------|--------------------|------------------------------|---------|-------------|---------------------------|
| GHG 711 1 | 5015 ¹⁾ | SK - 4 x 2.5 mm ² | 3 x M16 | Ø 7 - 12 mm | GHG 711 1201 R0001 |
|-----------|--------------------|------------------------------|---------|-------------|---------------------------|



| | | | | | |
|-----------|--------------------|--------------------------------|---------|-------------|---------------------------|
| GHG 711 1 | 5015 ¹⁾ | ZFKK - 5 x 2.5 mm ² | 3 x M16 | Ø 7 - 12 mm | GHG 711 1201 R0002 |
|-----------|--------------------|--------------------------------|---------|-------------|---------------------------|

¹⁾ RAL 5015 (sky-blue) for Ex-i application

²⁾ Cable glands type Capri ADE 1F2

SK = Terminal block with screw-terminals

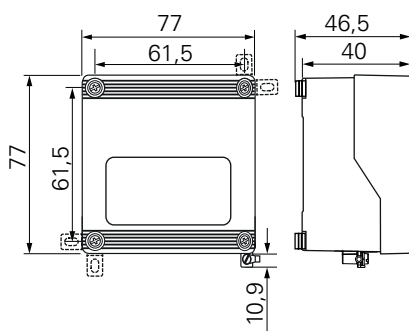
ZFKK= Cage-clamp

MK = Sheath terminals

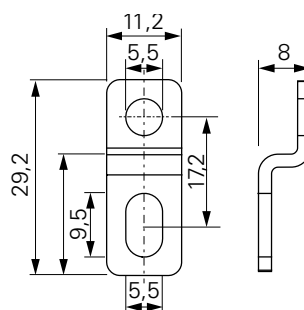
RK = serial terminals

Dimension drawings

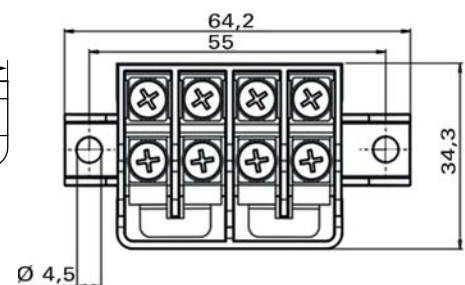
GHG 71 - size 1



Mounting flaps Size 1-2



Terminal block with screw-terminals





Technical data

| | GHG 713.. Empty enclosure Ex | GHG 711.. Junction box/terminal enclosure Ex | GHG 716 .. (714/15) Industrial enclosures |
|--|---|--|---|
| EC-Type Examination Certificate | BVS 15 ATEX E 127 U | BVS 16 ATEX E 007 | |
| IIEC-Ex Certificate of Conformity | IECEX BVS 15.1044 U | IECEX BVS 16.0007 | |
| Marking accd. to 94/9/EG | ⊕ II 2 G Ex eb IIC Gb ⊕ II 2 D Ex tb IIIC Db | ⊕ II 2 G Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb ⊕ II 2 D Ex tb IIIC T80° C (T95° C) Db | |
| Marking accd. to IECEx | Ex eb IIC Gb Ex tb IIIC Db | Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb Ex tb IIIC T80° C (T95° C) Db | |
| Permissible ambient temperature | | -55 °C up to +55 °C | -55 °C up to +95 °C |
| Operating-temperature range | -55 °C up to +95 °C | | |
| IK-class according to EN 50102 | IK 10 Δ 20 J | IK 10 Δ 20 J | IK 10 Δ 20 J |
| Rated voltage | up to 690 V AC / DC | up to 690 V AC / DC | up to 690 V AC / DC |
| Rated current | up to 20 A (depends on the configuration) | up to 20 A (depends on the configuration) | up to 20 A (depends on the configuration) |
| Max. power dissipation at Tu +40 °C | max. 3.8 W (T6) / max. 5.3 W (T5) | max. 3.8 W (T6) / max. 5.3 W (T5) | |
| Max. power dissipation at Tu +55 °C | max. 2.4 W (T6) / max. 3.8 W (T5) | max. 2.4 W (T6) / max. 3.8 W (T5) | |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz |
| Terminals ³⁾ | | | |
| Cage-clamp (ZFKK) | | 3 x 4 x 2.5 mm ² + 2 x 2 x 2.5 mm ² | 3 x 4 x 2.5 mm ² + 2 x 2 x 2.5 mm ² |
| Screw plug (SK) | | 4 x 4 x 2.5 mm ² | 4 x 4 x 2.5 mm ² |
| PE-terminal external | 1 x 4-6 mm ² | 1 x 4-6 mm ² | 1 x 4-6 mm ² |
| PE-terminal internal | 2 x 2.5-6 mm ² | 2 x 2.5-6 mm ² | 2 x 2.5-6 mm ² |
| Weight | 0.25 kg | depends on the configuration | 0.25 kg |
| Enclosure material | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) |
| Enclosure colour | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) |
| Cable glands / gland plates / enclosure drilling | | M12 - M16 ADE 1F2 other types on request | |
| Degree of protection accd. to EN 60529 | IP66 / IP67 / IP68 ⁴⁾ / IP69 | IP66 ¹⁾ | IP66 / IP67 / IP68 ⁴⁾ / IP69 |

Max. number of cable glands

| Cable glands/Thread (max. number/side) | Bottom | Top ²⁾ | Left | Right |
|--|--------|-------------------|------|-------|
| M12 | 1 | - | 1 | 1 |
| M16 | 1 | - | 1 | 1 |
| M20 | - | - | - | - |
| M25 | - | - | - | - |
| M32 | - | - | - | - |
| M40 | - | - | - | - |
| M50 | - | - | - | - |
| M63 | - | - | - | - |

¹⁾ Standard; other degree of protection on request

²⁾ In use of cable glands from the top please only use in dry rooms or mount protected against moisture.

³⁾ For Ex-e terminal boxes the max. current load must be observed

⁴⁾ On request

Max. number of conductors

| Rated current (A) | Cable cross section (mm ²) | | | | | | | | |
|-------------------|--|-----|---|---|----|----|----|----|----|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 |
| 6 A | 12 | | | | | | | | |
| 10 A | 10 | 12 | | | | | | | |
| 16 A | 4 | 11 | | | | | | | |
| 20 A | | 5 | | | | | | | |
| 25 A | | | | | | | | | |
| 35 A | | | | | | | | | |
| 50 A | | | | | | | | | |
| 63 A | | | | | | | | | |
| 80 A | | | | | | | | | |
| 100 A | | | | | | | | | |
| 125 A | | | | | | | | | |

In this range as many terminals can be added as physically fit the available mounting dimension and according to the instructions.

The terminal content in this range requires a power dissipation test report from the manufacturer.

Ordering details/dimension drawings

GHG 71*2 - size 2

Ordering details

| Type | Colour (RAL) | Order No. |
|------|--------------|-----------|
|------|--------------|-----------|

Enclosures for industrial application



| | | |
|-----------|------|---------------------------|
| GHG 716 2 | 7032 | GHG 716 2101 R0001 |
|-----------|------|---------------------------|

Enclosures component certified accd. to ATEX/IECEX



| | | |
|-----------|------|---------------------------|
| GHG 713 2 | 7032 | GHG 713 2101 R0001 |
|-----------|------|---------------------------|



| | | |
|-----------|--------------------|---------------------------|
| GHG 713 2 | 5015 ¹⁾ | GHG 713 2101 R0002 |
|-----------|--------------------|---------------------------|

| Type | Colour (RAL) | Terminal type | Cable glands ²⁾ | Clamping range | Order No. |
|------|--------------|---------------|----------------------------|----------------|-----------|
|------|--------------|---------------|----------------------------|----------------|-----------|

Configured devices accd ATEX/IECEX



| | | | | | |
|-----------|------|--------------------------|---------|--------------|---------------------------|
| GHG 711 2 | 7032 | MK 4 x 4 mm ² | 2 x M20 | Ø 10 - 16 mm | GHG 711 2101 R0002 |
|-----------|------|--------------------------|---------|--------------|---------------------------|

| | | | | | |
|-----------|------|--------------------------|---------|--------------|---------------------------|
| GHG 711 2 | 7032 | MK 4 x 4 mm ² | 4 x M20 | Ø 10 - 16 mm | GHG 711 2101 R0003 |
|-----------|------|--------------------------|---------|--------------|---------------------------|

| | | | | | |
|-----------|--------------------|--------------------------|---------|--------------|---------------------------|
| GHG 711 2 | 5015 ¹⁾ | MK 4 x 4 mm ² | 2 x M20 | Ø 10 - 16 mm | GHG 711 2201 R0001 |
|-----------|--------------------|--------------------------|---------|--------------|---------------------------|

| | | | | | |
|-----------|--------------------|------------|---------|--------------|---------------------------|
| GHG 711 2 | 5015 ¹⁾ | MK4 x 4 mm | 4 x M20 | Ø 10 - 16 mm | GHG 711 2201 R0002 |
|-----------|--------------------|------------|---------|--------------|---------------------------|

| | | | | | |
|-----------|------|--------------------------|--------------------|--------------------------------|---------------------------|
| GHG 712 2 | 7032 | RK 6 x 4 mm ² | 1 x M20 1 x M20 | Ø 4.5 - 8.5 mm Ø 10 - 16 mm | GHG 712 2101 R0001 |
|-----------|------|--------------------------|--------------------|--------------------------------|---------------------------|

| | | | | | |
|-----------|------|--------------------------|--------------------|------------------------------|---------------------------|
| GHG 712 2 | 7032 | RK 6 x 4 mm ² | 2 x M12 1 x M20 | Ø 4.5 - 8 mm Ø 10 - 16 mm | GHG 712 2101 R0002 |
|-----------|------|--------------------------|--------------------|------------------------------|---------------------------|

| | | | | | |
|-----------|------|------------------------------|---------|--------------|---------------------------|
| GHG 712 2 | 7032 | ZFKK 6 x 2.5 mm ² | 2 x M20 | Ø 10 - 16 mm | GHG 712 2101 R0003 |
|-----------|------|------------------------------|---------|--------------|---------------------------|

| | | | | | |
|-----------|------|------------------------------|--------------------|------------------------------|---------------------------|
| GHG 712 2 | 7032 | ZFKK 6 x 2.5 mm ² | 2 x M12 1 x M20 | Ø 4.5 - 8 mm Ø 10 - 16 mm | GHG 712 2101 R0004 |
|-----------|------|------------------------------|--------------------|------------------------------|---------------------------|

| | | | | | |
|-----------|--------------------|--------------------------|--------------------|--------------------------------|---------------------------|
| GHG 712 2 | 5015 ¹⁾ | RK 6 x 4 mm ² | 1 x M20 1 x M20 | Ø 10 - 16 mm Ø 4.5 - 8.5 mm | GHG 712 2201 R0001 |
|-----------|--------------------|--------------------------|--------------------|--------------------------------|---------------------------|

| | | | | | |
|-----------|--------------------|--------------------------|--------------------|------------------------------|---------------------------|
| GHG 712 2 | 5015 ¹⁾ | RK 6 x 4 mm ² | 2 x M12 1 x M20 | Ø 4.5 - 8 mm Ø 10 - 16 mm | GHG 712 2201 R0002 |
|-----------|--------------------|--------------------------|--------------------|------------------------------|---------------------------|

| | | | | | |
|-----------|--------------------|------------------------------|---------|--------------|---------------------------|
| GHG 712 2 | 5015 ¹⁾ | ZFKK 6 x 2.5 mm ² | 2 x M20 | Ø 10 - 16 mm | GHG 712 2201 R0003 |
|-----------|--------------------|------------------------------|---------|--------------|---------------------------|

| | | | | | |
|-----------|--------------------|------------------------------|--------------------|------------------------------|---------------------------|
| GHG 712 2 | 5015 ¹⁾ | ZFKK 6 x 2.5 mm ² | 2 x M12 1 x M20 | Ø 4.5 - 8 mm Ø 10 - 16 mm | GHG 712 2201 R0004 |
|-----------|--------------------|------------------------------|--------------------|------------------------------|---------------------------|



¹⁾ RAL 5015 (sky-blue) for Ex-i application

²⁾ Cable glands type Capri ADE 1F2

SK = Terminal block with screw-terminals

ST = Plug-in terminal

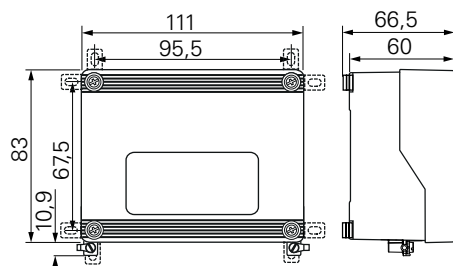
ZFKK= Cage-clamp

MK = Sheath terminals

RK = Serial terminals

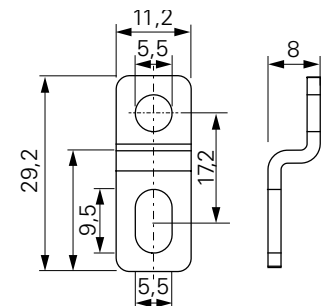
Dimension drawings

GHG 71 - size 2



Dimensions in mm

Mounting flaps Size 1-2





Technical data

| | GHG 713 .. Empty enclosure Ex | GHG 711/712 .. Terminal/junction box Ex | GHG 716 .. (714/15) Industrial enclosures |
|--|---|--|---|
| EC-Type Examination Certificate | BVS 15 ATEX E 127 U | BVS 16 ATEX E 007 | |
| IIEC-Ex Certificate of Conformity | IECEX BVS 15.1044 U | IECEX BVS 16.0007 | |
| Marking accd. to 94/9/EG | ⊕ II 2 G Ex eb IIC Gb ⊕ II 2 D Ex tb IIIC Db | ⊕ II 2 G Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb ⊕ II 2 D Ex tb IIIC T80° C (T95° C) Db | |
| Marking accd. to IECEx | Ex eb IIC Gb Ex tb IIIC Db | Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb Ex tb IIIC T80° C (T95° C) Db | |
| Permissible ambient temperature | | -55 °C up to +55 °C | |
| Operating-temperature range | -55 °C up to +95 °C | | -55 °C up to +95 °C |
| IK-class according to EN 50102 | IK 10 Δ 20 J | IK 10 Δ 20 J | IK 10 Δ 20 J |
| Rated voltage | up to 690 V AC / DC | up to 690 V AC / DC | up to 690 V AC / DC |
| Rated current | up to 25 A (depends on the configuration) | up to 32 A (with sheath terminals) | up to 25 A (with serial terminals) |
| Max. power dissipation at Tu +40 °C | max. 7.7 W (T6) / max. 10 W (T5) | max. 7.7 W (T6) / max. 10 W (T5) | |
| Max. power dissipation at Tu +55 °C | max. 4.8 W (T6) / max. 7.7 W (T5) | max. 4.8 W (T6) / max. 7.7 W (T5) | |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz |
| Terminals ³⁾ | | | |
| Cage-clamp (ZFKK) | | 3 x 4 x 2.5 mm ² + 2 x 2 x 2.5 mm ² (up to 20 A) | 3 x 4 x 2.5 mm ² + 2 x 2 x 2.5 mm ² |
| Sheath terminal (MK) | | 4 x 4 mm ² - 2 x 8 x 6 mm ² (up to 32 A) | 4 x 4 mm ² - 2 x 8 x 6 mm ² |
| Wago Plug-in terminal - small rail | | 4 x 4 x 2.5 mm ² | 4 x 4 x 2.5 mm ² |
| serial terminal MXk4 or Mut 4 (RK) | | 2 x 2 x 2.5 mm ² - 10 mm ² | 2 x 2 x 2.5 mm ² - 10 mm ² |
| PE-terminal external | 2 x 6 mm ² | 2 x 4 - 6 mm ² | 2 x 4 - 6 mm ² |
| PE-terminal internal | 2 x 4 mm ² | 2 x 2 x 2.5 - 6 mm ² | 2 x 2 x 2.5 - 6 mm ² |
| Weight | 0.5 kg | depends on the configuration | 0.5 kg |
| Enclosure material | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) |
| Enclosure colour | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) |
| Cable glands / gland plates / enclosure drilling | | M12 - M63 ADE 1F2 other types on request | |
| Degree of protection accd. to EN 60529 | IP66 / IP67 / IP68 ⁴⁾ / IP69 | IP66 ¹⁾ | IP66 / IP67 / IP68 ⁴⁾ / IP69 |

Max. number of cable glands

| Cable glands/Thread (max. number/side) | Bottom | Top ²⁾ | Left | Right |
|--|--------|-------------------|------|-------|
| M12 | 7 | 5 | 2 | 2 |
| M16 | 3 | 3 | 1 | 1 |
| M20 | 2 | 2 | 1 | 1 |
| M25 | 2 | - | 1 | 1 |
| M32 | - | - | - | - |
| M40 | - | - | - | - |
| M50 | - | - | - | - |
| M63 | - | - | - | - |

¹⁾ Standard; other degree of protection on request

²⁾ In use of cable glands from the top please only use in dry rooms or mount protected against moisture.

³⁾ For Ex-e terminal boxes the max. current load must be observed

⁴⁾ On request

Max. number of conductors

| Rated current (A) | Cable cross section (mm ²) | | | | | | | | |
|-------------------|--|-----|----|---|----|----|----|----|----|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 |
| 6 A | 30 | | | | | | | | |
| 10 A | 10 | 20 | | | | | | | |
| 16 A | 4 | 11 | 22 | | | | | | |
| 20 A | | 5 | 12 | | | | | | |
| 25 A | | | 3 | | | | | | |
| 35 A | | | | | | | | | |
| 50 A | | | | | | | | | |
| 63 A | | | | | | | | | |
| 80 A | | | | | | | | | |
| 100 A | | | | | | | | | |
| 125 A | | | | | | | | | |

In this range as many terminals can be added as physically fit the available mounting dimension and according to the instructions.

The terminal content in this range requires a power dissipation test report from the manufacturer.

Ordering details/dimension drawings

GHG 71*3 - size 3



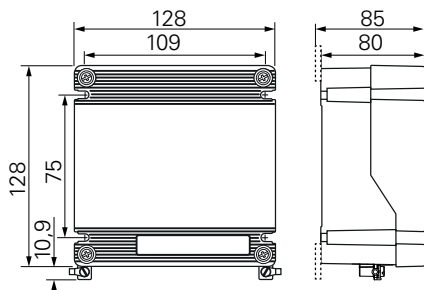
Ordering details

| Type | Colour (RAL) | | | | | Order No. |
|---|--------------------|---|--------------------------|----------------------------|----------------------------------|---------------------------|
| Enclosures for industrial application | | | | | | |
| GHG 716 3 | 7032 | | | | | GHG 716 3101 R0001 |
| Enclosures component certified accd. to ATEX/IECEX | | | | | | |
| GHG 713 3 | 7032 | | | | | GHG 713 3101 R0001 |
| GHG 713 3 | 5015 ¹⁾ | | | | | GHG 713 3201 R0001 |
| Type | Colour (RAL) | Terminal type | No. of terminals/PE rail | Cable glands ²⁾ | Clamping range | Order No. |
| Configured devices accd ATEX/IECEX | | | | | | |
| GHG 711 3 | 7032 | MK 8 x 4 mm ² | - | 4 x M20 | Ø 10 - 16 mm | GHG 711 3101 R0001 |
| GHG 711 3 | 7032 | MK 8 x 4 mm ² | - | 4 x M25 | Ø 13.5 - 20.5 mm | GHG 711 3101 R0002 |
| GHG 711 3 | 5015 ¹⁾ | MK 8 x 4 mm ² | - | 4 x M20 | Ø 10 - 16 mm | GHG 711 3201 R0001 |
| GHG 711 3 | 5015 ¹⁾ | MK 8 x 4 mm ² | - | 4 x M25 | Ø 13.5 - 20.5 mm | GHG 711 3201 R0002 |
| GHG 712 3 | 7032 | RK 12 x 2.5 mm ² | - | 1 x M20 1 x M25 | Ø 10 - 16 mm Ø 13.5 - 20.5 mm | GHG 712 3101 R0004 |
| GHG 712 3 | 7032 | RK 12 x 2.5 mm ² | - | 4 x M12 1 x M20 | Ø 4.5 - 8 mm Ø 10 - 16 mm | GHG 712 3101 R0005 |
| GHG 712 3 | 7032 | RK 1 x 4 mm ² | - | without thread | - | GHG 712 3101 R0006 |
| GHG 712 3 | 7032 | RK 12 x 2.5 mm ² | - | 4 x M12 1 x M20 | Ø 4.5 - 8 mm Ø 10 - 16 mm | GHG 712 3101 R0007 |
| GHG 712 3 | 7032 | RK 1 x 2.5 mm ² | 6 | without thread | - | GHG 712 3101 R0008 |
| GHG 712 3 | 7032 | RK 12 x 4 mm ² | 6 | without thread | - | GHG 712 3101 R0009 |
| GHG 712 3 | 7032 | RK 12 x 2.5 mm ² | 6 | 4 x M20 | Ø 10 - 16 mm | GHG 712 3101 R0010 |
| GHG 712 3 | 7032 | RK 1 x 4 mm ² | 6 | 2 x M20 1 x M25 | Drilling Thread | GHG 712 3101 R0011 |
| GHG 712 3 | 7032 | ZFKK 4 x 4 mm ² + 2 X 4mm ² PE | 6 | 1 x M16 2 x M20 | Ø 7 - 12 mm Ø 10 - 16 mm | GHG 712 3101 R0012 |
| GHG 712 3 | 5015 ¹⁾ | RK 12 x 2.5 mm ² | - | 1 x M20 1 x M25 | Ø 10 - 16 mm Ø 13.5 - 20.5 mm | GHG 712 3201 R0001 |
| GHG 712 3 | 5015 ¹⁾ | RK 12 x 2.5 mm ² | - | 4 x M12 1 x M20 | Ø 4.5 - 8 mm Ø 10 - 16 mm | GHG 712 3201 R0002 |
| GHG 712 3 | 5015 ¹⁾ | RK 1 x 4 mm ² | - | without thread | - | GHG 712 3201 R0003 |
| GHG 712 3 | 5015 ¹⁾ | ZFKK 12 x 2.5 mm ² | - | 4 x M12 1 x M20 | Ø 4.5 - 8 mm Ø 10 - 16 mm | GHG 712 3201 R0004 |
| GHG 712 3 | 5015 ¹⁾ | RK 1 x 2.5 mm ² | 6 | without thread | - | GHG 712 3201 R0005 |
| GHG 712 3 | 5015 ¹⁾ | RK 12 x 4 mm ² | 6 | without thread | - | GHG 712 3201 R0006 |
| GHG 712 3 | 5015 ¹⁾ | RK 12 x 2.5 mm ² | 6 | 4 x M20 | Ø 10 - 16 mm | GHG 712 3201 R0007 |
| GHG 712 3 | 5015 ¹⁾ | RK 1 x 4 mm ² | 6 | 2 x M20 1 x M25 | Drilling Thread | GHG 712 3201 R0008 |
| GHG 712 3 | 5015 ¹⁾ | ZFKK 4 x 4 mm ² + 2 x 4mm ² PE | 6 | 1 x M16 2 x M20 | Ø 7 - 12 mm Ø 10 - 16 mm | GHG 712 3201 R0009 |

¹⁾ RAL 5015 (sky-blue) for Ex-i application / ²⁾ Cable glands type Capri ADE 1F2 /
SK = Terminal block with screw-terminals / ZFKK= Cage-clamp / MK = Sheath terminals / RK = serial terminals

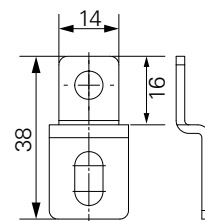
Dimension drawings

GHG 71 - size 3



Dimensions in mm

Mounting flaps Size 3





Technical data

| | GHG 713 .. Empty enclosure Ex | GHG 711/712 .. Terminal/junction box Ex | GHG 716 .. (714/15) Industrial enclosures |
|--|---|--|---|
| EC-Type Examination Certificate | BVS 15 ATEX E 127 U | BVS 16 ATEX E 007 | |
| IIEC-Ex Certificate of Conformity | IECEX BVS 15.1044 U | IECEX BVS 16.0007 | |
| Marking accd. to 94/9/EG | Ⓜ II 2 G Ex eb IIC Gb Ⓜ II 2 D Ex tb IIIC Db | Ⓜ II 2 G Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb Ⓜ II 2 D Ex tb IIIC T80° C (T95° C) Db | |
| Marking accd. to IECEx | Ex eb IIC Gb Ex tb IIIC Db | Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb Ex tb IIIC T80° C (T95° C) Db | |
| Permissible ambient temperature | | -55 °C up to +55 °C | |
| Operating-temperature range | -55 °C up to + 95 °C | | -55 °C up to + 95 °C |
| IK-class according to EN 50102 | IK 10 Δ 20 J | IK 10 Δ 20 J | IK 10 Δ 20 J |
| Rated voltage | up to 690 V AC / DC | up to 690 V AC / DC | up to 690 V AC / DC |
| Rated current | up to 125 A (depends on the configuration) | up to 30 A (depends on the configuration) | up to 125 A (depends on the configuration) |
| Max. power dissipation at Tu +40 °C | max. 13 W (T6) / max. 18 W(T5) | max. 13 W (T6) / max. 18 W(T5) | |
| Max. power dissipation at Tu +55 °C | max. 8.3 W (T6) / max. 13 W (T5) | max. 8.3 W (T6) / max. 13 W (T5) | |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz |
| Terminals ³⁾ | | | |
| Cage-clamp (ZFKK) | | 3 x 4 x 2.5 mm ² + 2 x 2 x 2.5 mm ² | 3 x 4 x 2.5 mm ² + 2 x 2 x 2.5 mm ² |
| Sheath terminal (MK) | | 4 x 4 x 4 mm ² - 2 x 4 x 6 mm ² | 4 x 4 x 4 mm ² - 2 x 4 x 6 mm ² |
| Wago Plug-in terminal | | 4 x 4 x 2.5 mm ² | 4 x 4 x 2.5 mm ² |
| serial terminal (RK) | | 2.5 mm ² - 6 mm ² | 2.5 mm ² - 6 mm ² |
| Max. number of PE-terminals on PE-rail | | 6 | 6 |
| PE-terminal external | 2 x 1,5 mm ² - 6 mm ² bis 10 mm ² | 2 x 1,5 mm ² - 6 mm ² bis 10 mm ² | 2 x 1,5 mm ² - 6 mm ² bis 10 mm ² |
| PE-terminal internal | 2 x 2,5 mm ² bis 10 mm ² | 2 x 2,5 mm ² bis 10 mm ² | 2 x 2,5 mm ² bis 10 mm ² |
| Weight | 1.0 kg | depends on the configuration | 1.0 kg |
| Enclosure material | Aluminium die-cast AISi10Mg (Cu <0,1%) | Aluminium die-cast AISi10Mg (Cu <0,1%) | Aluminium die-cast AISi10Mg (Cu <0,1%) |
| Enclosure colour | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) |
| Cable glands / gland plates / enclosure drilling | | M12 - M40 ADE 1F2 other types on request | |
| Degree of protection accd. to EN 60529 | IP66 / IP67 / IP68 ⁴⁾ / IP69 | IP66 ¹⁾ | IP66 / IP67 / IP68 ⁴⁾ / IP69 |

Max. number of cable glands

| Cable glands/Thread (max. number/side) | Bottom | Top ²⁾ | Left | Right |
|--|--------|-------------------|------|-------|
| M12 | 14 | 5 | 4 | 4 |
| M16 | 8 | - | 3 | 3 |
| M20 | 3 | - | 2 | 2 |
| M25 | 2 | - | 1 | 1 |
| M32 | 2 | - | - | - |
| M40 | 1 | - | - | - |
| M50 | - | - | - | - |
| M63 | - | - | - | - |

Max. number of terminals³⁾

| Alignment of the DIN-rails | horizontal | | vertical | |
|----------------------------|-----------------------------|---------------|----------------|---------------|
| | Number of rows | Useable legth | Number of rows | Useable legth |
| | 1 | 1x 78 mm | 1 | 1x 88 mm |
| Terminal dimension | maximum number of terminals | | | |
| 2.5 mm ² | 15 | | 16 | |
| 4 mm ² | 12 | | 14 | |
| 6 mm ² | 9 | | 10 | |
| 10 mm ² | - | | - | |
| 16 mm ² | - | | - | |
| 35 mm ² | - | | - | |
| 50 mm ² | - | | - | |

¹⁾ Standard; other degree of protection on request

²⁾ In use of cable glands from the top please only use in dry rooms or mount protected against moisture.

³⁾ For Ex-e terminal boxes the max. current load must be observed

⁴⁾ On request

Max. number of conductors

| Rated current (A) | Cable cross section (mm ²) | | | | | | | | |
|-------------------|--|-----|----|----|----|----|----|----|----|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 |
| 6 A | 41 | | | | | | | | |
| 10 A | 14 | 27 | | | | | | | |
| 16 A | 5 | 16 | 30 | | | | | | |
| 20 A | | 7 | 17 | 33 | | | | | |
| 25 A | | | 5 | 13 | | | | | |
| 35 A | | | | | | | | | |
| 50 A | | | | | | | | | |
| 63 A | | | | | | | | | |
| 80 A | | | | | | | | | |
| 100 A | | | | | | | | | |
| 125 A | | | | | | | | | |

In this range as many terminals can be added as physically fit the available mounting dimension and according to the instructions.

The terminal content in this range requires a power dissipation test report from the manufacturer.

Ordering details/dimension drawings

GHG 71*4 - size 4

Ordering details

| Type | Colour (RAL) | | | | | Order No. |
|---|--------------------|---|--------------------------|-------------------------------|--|---------------------------|
| Enclosures for industrial application | | | | | | |
| GHG 716 4 | 7032 | | | | | GHG 716 4101 R0001 |
| Enclosures component certified accd. to ATEX/IECEX | | | | | | |
| GHG 713 4 | 7032 | | | | | GHG 713 4101 R0002 |
| GHG 713 4 | 5015 ¹⁾ | | | | | GHG 713 4201 R0001 |
| Type | Colour (RAL) | Terminal type | No. of terminals/PE rail | Cable glands ²⁾ | Clamping range | Order No. |
| Configured devices accd ATEX/IECEX | | | | | | |
| GHG 712 4 | 7032 | RK 1 x 2.5 mm ² | 15 | without thread | - | GHG 712 4101 R0002 |
| GHG 712 4 | 7032 | RK 24 x 4 mm ² | 15 | without thread | - | GHG 712 4101 R0003 |
| GHG 712 4 | 7032 | RK 28 x 2.5 mm ² | 15 | 6 x M20 | Ø 10 - 16 mm | GHG 712 4101 R0004 |
| GHG 712 4 | 7032 | ZFKK 4 x 4 mm ² 6 x 10 mm ² 2 x 10 mm ² PE | - | 1 x M20 1 x M25 1 x M32 | Ø 10 - 16 mm Ø 13.5 - 20.5 mm Ø 18 - 27.5 mm | GHG 712 4101 R0005 |
| GHG 712 4 | 5015 ¹⁾ | RK 1 x 2.5 mm ² | 15 | without thread | - | GHG 712 4201 R0001 |
| GHG 712 4 | 5015 ¹⁾ | RK 24 x 2.5 mm ² | 15 | without thread | - | GHG 712 4201 R0002 |
| GHG 712 4 | 5015 ¹⁾ | RK 28 x 4 mm ² | 15 | 6 x M20 | Ø 10 - 16 mm | GHG 712 4201 R0003 |
| GHG 712 4 | 5015 ¹⁾ | ZFKK 4 x 4 mm ² 6 x 10 mm ² 2 x 10 mm ² | 15 | 1 x M20 1 x M25 1 x M32 | Ø 10 - 16 mm Ø 13.5 - 20.5 mm Ø 18 - 27.5 mm | GHG 712 4201 R0004 |

¹⁾ RAL 5015 (sky-blue) for Ex-i application

²⁾ Cable glands type Capri ADE 1F2

SK = Terminal block with screw-terminals

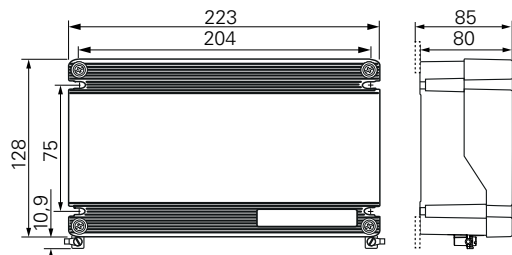
ZFKK= Cage-clamp

MK = Sheath terminals

RK = serial terminals

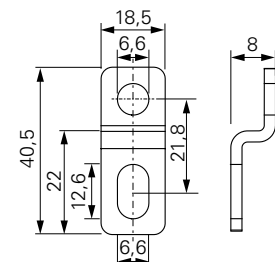
Dimension drawings

GHG 71 - size 4



Dimensions in mm

Mounting flaps Size 4-8





Technical data

| | GHG 713 .. Empty enclosure Ex | GHG 712.. Junction box/terminal enclosure Ex | GHG 716 .. (714/15) Industrial enclosures |
|--|---|--|---|
| EC-Type Examination Certificate | BVS 15 ATEX E 127 U | BVS 16 ATEX E 007 | |
| IIEC-Ex Certificate of Conformity | IECEX BVS 15.1044 U | IECEX BVS 16.0007 | |
| Marking accd. to 94/9/EG | ⊕ II 2 G Ex eb IIC Gb ⊕ II 2 D Ex tb IIIC Db | ⊕ II 2 G Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb ⊕ II 2 D Ex tb IIIC T80° C (T95° C) Db | |
| Marking accd. to IECEx | Ex eb IIC Gb Ex tb IIIC Db | Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb Ex tb IIIC T80° C (T95° C) Db | |
| Permissible ambient temperature | | -55 °C up to +55 °C | |
| Operating-temperature range | -55 °C up to + 95 °C | | -55 °C up to + 95 °C |
| IK-class according to EN 50102 | IK 10 Δ 20 J | IK 10 Δ 20 J | IK 10 Δ 20 J |
| Rated voltage | up to 690 V AC / DC | up to 690 V AC / DC | up to 690 V AC / DC |
| Rated current | up to 50 A (depends on the configuration) | up to 50 A (depends on the configuration) | up to 50 A (depends on the configuration) |
| Max. power dissipation at Tu +40 °C | max. 21 W (T6) / max. 29 W(T5) | max. 21 W (T6) / max. 29 W(T5) | |
| Max. power dissipation at Tu +55 °C | max. 12 W (T6) / max. 21 W (T5) | max. 12 W (T6) / max. 21 W (T5) | |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz |
| Terminals ³⁾ /serial terminal (RK) | | max. 10 mm ² /2.5 mm ² - 10 mm ² | max. 10 mm ² /2.5 mm ² - 10 mm ² |
| Max. no. of PE-terminals on PE-rail | | 15 | 15 |
| PE-terminal external | 2 x 1.5 mm ² - 6 mm ² up to 10 mm ² | 2 x 1.5 mm ² - 6 mm ² up to 10 mm ² | 2 x 1.5 mm ² - 6 mm ² up to 10 mm ² |
| PE-terminal internal | 2 x 2.5 mm ² up to 10 mm ² | 2 x 2.5 mm ² up to 10 mm ² | 2 x 2.5 mm ² up to 10 mm ² |
| Weight | 1.5 kg | depends on the configuration | 1.5 kg |
| Enclosure material | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) |
| Enclosure colour | RAL 7032 pebble grey. RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey. RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey. RAL 5015 (Ex-i application) or unpainted (on request) |
| Cable glands / gland plates / enclosure drilling | | M12 - M40 ADE 1F2 other types on request | |
| Degree of protection accd. to EN 60529 | IP66 / IP67 / IP68 ⁴⁾ / IP69 | IP66 ¹⁾ | IP66 / IP67 / IP68 ⁴⁾ / IP69 |

Max. number of cable glands

| Cable glands/Thread (max. number/side) | Bottom | Top ²⁾ | Left | Right |
|--|--------|-------------------|------|-------|
| M12 | 19 | 8 | 4 | 4 |
| M16 | 14 | - | 2 | 2 |
| M20 | 8 | - | 1 | 1 |
| M25 | 5 | - | 1 | 1 |
| M32 | 3 | - | - | - |
| M40 | 3 | - | - | - |
| M50 | - | - | - | - |
| M63 | - | - | - | - |

Max. number of terminals³⁾

| Alignment of the DIN-rails | horizontal | vertical |
|----------------------------|--------------------------|----------|
| Number of rows | 1 | 1 |
| Useable length | 1x 158 mm | 1x 80 mm |
| Terminal dimension | Max. number of terminals | |
| 2.5 mm ² | 30 | 15 |
| 4 mm ² | 25 | 12 |
| 6 mm ² | 19 | 9 |
| 10 mm ² | - | 7 |
| 16 mm ² | - | - |
| 35 mm ² | - | - |
| 50 mm ² | - | - |

¹⁾ Standard; other degree of protection on request

²⁾ In use of cable glands from the top please only use in dry rooms or mount protected against moisture.

³⁾ For Ex-e terminal boxes the max. current load must be observed

⁴⁾ On request

Max. number of conductors

| Rated current (A) | Cable cross section (mm ²) | | | | | | | | |
|-------------------|--|--|----|----|----|--|----|----|----|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 |
| 6 A | 44 | In this range as many terminals can be added as physically fit the available mounting dimension and according to the instructions. | | | | | | | |
| 10 A | 15 | 29 | | | | | | | |
| 16 A | 6 | 17 | 33 | | | | | | |
| 20 A | | 8 | 18 | 36 | | | | | |
| 25 A | | | 5 | 14 | 35 | | | | |
| 35 A | | | | 2 | 11 | | | | |
| 50 A | | | | | 3 | | | | |
| 63 A | | | | | | | | | |
| 80 A | | | | | | | | | |
| 100 A | | | | | | The terminal content in this range requires a power dissipation test report from the manufacturer. | | | |
| 125 A | | | | | | | | | |

Ordering details/dimension drawings

GHG 71*5 - size 5

Ordering details

| Type | Colour (RAL) | Order No. |
|------|--------------|-----------|
|------|--------------|-----------|

Enclosures for industrial application



| | | |
|-----------|------|---------------------------|
| GHG 716 5 | 7032 | GHG 716 5101 R0001 |
|-----------|------|---------------------------|

Enclosures component certified accd. to ATEX/IECEX



| | | |
|-----------|------|---------------------------|
| GHG 713 5 | 7032 | GHG 713 5101 R0001 |
|-----------|------|---------------------------|



| | | |
|-----------|--------------------|---------------------------|
| GHG 713 5 | 5015 ¹⁾ | GHG 713 5201 R0001 |
|-----------|--------------------|---------------------------|

| Type | Colour (RAL) | Terminal type | No. of terminals/PE rail | Cable glands ²⁾ | Clamping range | Order No. |
|------|--------------|---------------|--------------------------|----------------------------|----------------|-----------|
|------|--------------|---------------|--------------------------|----------------------------|----------------|-----------|

Configured devices accd ATEX/IECEX



| | | | | | | |
|-----------|------|-----------------------------|----|---------------------|----------------------------------|---------------------------|
| GHG 712 5 | 7032 | RK 24 x 2.5 mm ² | 14 | 12 x M12 1 x M25 | Ø 4.5 - 8 mm Ø 13.5 - 20.5 mm | GHG 712 5101 R0002 |
|-----------|------|-----------------------------|----|---------------------|----------------------------------|---------------------------|

| | | | | | | |
|-----------|------|-----------------------------|----|---------------------|---------------------------------|---------------------------|
| GHG 712 5 | 7032 | RK 24 x 2.5 mm ² | 14 | 12 x M16 1 x M25 | Ø 7 - 12 mm Ø 13.5 - 20.5 mm | GHG 712 5101 R0003 |
|-----------|------|-----------------------------|----|---------------------|---------------------------------|---------------------------|

| | | | | | | |
|-----------|------|--------------------------|----|----------------|---|---------------------------|
| GHG 712 5 | 7032 | RK 1 x 4 mm ² | 14 | without thread | - | GHG 712 5101 R0004 |
|-----------|------|--------------------------|----|----------------|---|---------------------------|

| | | | | | | |
|-----------|------|-------------------------------|----|---------------------|---------------------------------|---------------------------|
| GHG 712 5 | 7032 | ZFKK 24 x 2.5 mm ² | 14 | 12 x M16 1 x M25 | Ø 7 - 12 mm Ø 13.5 - 20.5 mm | GHG 712 5101 R0005 |
|-----------|------|-------------------------------|----|---------------------|---------------------------------|---------------------------|

| | | | | | | |
|-----------|--------------------|-----------------------------|----|---------------------|----------------------------------|---------------------------|
| GHG 712 5 | 5015 ¹⁾ | RK 24 x 2.5 mm ² | 14 | 12 x M12 1 x M25 | Ø 4.5 - 8 mm Ø 13.5 - 20.5 mm | GHG 712 5201 R0001 |
|-----------|--------------------|-----------------------------|----|---------------------|----------------------------------|---------------------------|



| | | | | | | |
|-----------|--------------------|-----------------------------|----|---------------------|---------------------------------|---------------------------|
| GHG 712 5 | 5015 ¹⁾ | RK 24 x 2.5 mm ² | 14 | 12 x M16 1 x M25 | Ø 7 - 12 mm Ø 13.5 - 20.5 mm | GHG 712 5201 R0002 |
|-----------|--------------------|-----------------------------|----|---------------------|---------------------------------|---------------------------|

| | | | | | | |
|-----------|--------------------|--------------------------|----|----------------|---|---------------------------|
| GHG 712 5 | 5015 ¹⁾ | RK 1 x 4 mm ² | 14 | without thread | - | GHG 712 5201 R0003 |
|-----------|--------------------|--------------------------|----|----------------|---|---------------------------|

| | | | | | | |
|-----------|--------------------|-------------------------------|----|---------------------|---------------------------------|---------------------------|
| GHG 712 5 | 5015 ¹⁾ | ZFKK 24 x 2.5 mm ² | 14 | 12 x M16 1 x M25 | Ø 7 - 12 mm Ø 13.5 - 20.5 mm | GHG 712 5201 R0004 |
|-----------|--------------------|-------------------------------|----|---------------------|---------------------------------|---------------------------|

¹⁾ RAL 5015 (sky-blue) for Ex-i application

²⁾ Cable glands type Capri ADE 1F2

SK = Terminal block with screw-terminals

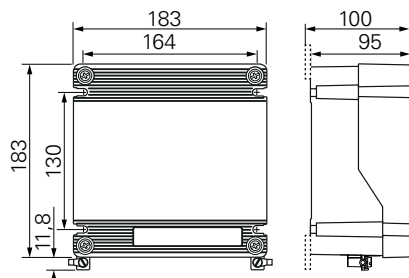
ZFKK= Cage-clamp

MK = Sheath terminals

RK = serial terminals

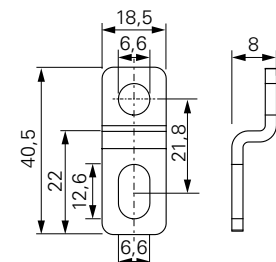
Dimension drawings

GHG 71 - size 5



Dimensions in mm

Mounting flaps Size 4-8





Technical data

| | GHG 713 .. Empty enclosure Ex | GHG 712.. Junction box/terminal enclosure Ex | GHG 716 .. (714/15) Industrial enclosures |
|--|---|--|---|
| EC-Type Examination Certificate | BVS 15 ATEX E 127 U | BVS 16 ATEX E 007 | |
| IIEC-Ex Certificate of Conformity | IECEX BVS 15.1044 U | IECEX BVS 16.0007 | |
| Marking accd. to 94/9/EG | ⊕ II 2 G Ex eb IIC Gb ⊕ II 2 D Ex tb IIIC Db | ⊕ II 2 G Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb ⊕ II 2 D Ex tb IIIC T80° C (T95° C) Db | |
| Marking accd. to IECEx | Ex eb IIC Gb Ex tb IIIC Db | Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb Ex tb IIIC T80° C (T95° C) Db | |
| Permissible ambient temperature | | -55 °C up to +55 °C | |
| Operating-temperature range | -55 °C up to + 95 °C | | -55 °C up to + 95 °C |
| IK-class according to EN 50102 | IK 10 Δ 20 J | IK 10 Δ 20 J | IK 10 Δ 20 J |
| Rated voltage | up to 690 V AC / DC | up to 690 V AC / DC | up to 690 V AC / DC |
| Rated current | up to 63 A (depends on the configuration) | up to 63 A (depends on the configuration) | up to 63 A (depends on the configuration) |
| Max. power dissipation at Tu +40 °C | max. 25 W (T6) / max. 34 W(T5) | max. 25 W (T6) / max. 34 W(T5) | |
| Max. power dissipation at Tu +55 °C | max. 15 W (T6) / max. 25 W (T5) | max. 15 W (T6) / max. 25 W (T5) | |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz |
| Terminals ³⁾ /serial terminal (RK) | | max. 16 mm ² /2.5 mm ² - 16 mm ² | max. 16 mm ² /2.5 mm ² - 16 mm ² |
| Max. number of PE-terminals on PE-rail | | 14 | 14 |
| PE-terminal external | 2 x 16 mm ² | 2 x 16 mm ² | 2 x 16 mm ² |
| PE-terminal internal | 2 x 16 mm ² | 2 x 16 mm ² | 2 x 16 mm ² |
| Weight | 1.8 kg | depends on the configuration | 1.8 kg |
| Enclosure material | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) |
| Enclosure colour | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) |
| Cable glands / gland plates / enclosure drilling | | M12 - M40 ADE 1F2 other types on request | |
| Degree of protection accd. to EN 60529 | IP66 / IP67 / IP68 ⁴⁾ / IP69 | IP66 ¹⁾ | IP66 / IP67 / IP68 ⁴⁾ / IP69 |

Max. number of cable glands

| Cable glands/Thread (max. number/side) | Bottom | Top ²⁾ | Left | Right |
|--|--------|-------------------|------|-------|
| M12 | 26 | 9 | 8 | 8 |
| M16 | 17 | 6 | 4 | 4 |
| M20 | 10 | 3 | 3 | 3 |
| M25 | 5 | 3 | 2 | 2 |
| M32 | 3 | - | - | - |
| M40 | 2 | - | - | - |
| M50 | - | - | - | - |
| M63 | - | - | - | - |

¹⁾ Standard; other degree of protection on request

²⁾ In use of cable glands from the top please only use in dry rooms or mount protected against moisture.

³⁾ For Ex-e terminal boxes the max. current load must be observed

⁴⁾ On request

Max. number of conductors

| Rated current (A) | Cable cross section (mm ²) | | | | | | | | |
|-------------------|--|--|----|----|----|----|--|----|----|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 |
| 6 A | 53 | In this range as many terminals can be added as physically fit the available mounting dimension and according to the instructions. | | | | | | | |
| 10 A | 18 | 35 | | | | | | | |
| 16 A | 7 | 20 | 39 | | | | | | |
| 20 A | | 9 | 22 | 43 | | | | | |
| 25 A | | | 6 | 17 | 42 | | | | |
| 35 A | | | | 2 | 13 | 35 | | | |
| 50 A | | | | | 4 | 16 | | | |
| 63 A | | | | | | 6 | | | |
| 80 A | | | | | | | | | |
| 100 A | | | | | | | The terminal content in this range requires a power dissipation test report from the manufacturer. | | |
| 125 A | | | | | | | | | |

Max. number of terminals³⁾

| Alignment of the DIN-rails | horizontal | vertical |
|----------------------------|--------------------------|-----------|
| Number of rows | 1 | 1 |
| Useable legth | 1x 122 mm | 1x 143 mm |
| Terminal dimension | Max. number of terminals | |
| 2,5 mm ² | 23 | 27 |
| 4 mm ² | 19 | 23 |
| 6 mm ² | 14 | 17 |
| 10 mm ² | 11 | 14 |
| 16 mm ² | 10 | 11 |
| 35 mm ² | - | - |
| 50 mm ² | - | - |

Ordering details/dimension drawings

GHG 71*6 - size 6

Ordering details

| Type | Colour (RAL) | Order No. |
|--|--------------|-----------|
| Enclosures for industrial application | | |



| | | |
|-----------|------|---------------------------|
| GHG 716 6 | 7032 | GHG 716 6101 R0001 |
|-----------|------|---------------------------|

| | | |
|---|--|--|
| Enclosures component certified accd. to ATEX/IECEX | | |
|---|--|--|



| | | |
|-----------|------|---------------------------|
| GHG 713 6 | 7032 | GHG 713 6101 R0001 |
|-----------|------|---------------------------|



| | | |
|-----------|--------------------|---------------------------|
| GHG 713 6 | 5015 ¹⁾ | GHG 713 6201 R0001 |
|-----------|--------------------|---------------------------|

| Type | Colour (RAL) | Terminal type | No. of terminals/PE rail | Cable glands ²⁾ | Clamping range | Order No. |
|------|--------------|---------------|--------------------------|----------------------------|----------------|-----------|
|------|--------------|---------------|--------------------------|----------------------------|----------------|-----------|

| | | | | | | |
|---|--|--|--|--|--|--|
| Configured devices accd ATEX/IECEX | | | | | | |
|---|--|--|--|--|--|--|



| | | | | | | |
|-----------|------|----------------------------|----|----------------|---|---------------------------|
| GHG 712 6 | 7032 | RK 1 x 2.5 mm ² | 31 | without thread | - | GHG 712 6101 R0003 |
|-----------|------|----------------------------|----|----------------|---|---------------------------|

| | | | | | | |
|-----------|--------------------|-----------------------------|----|---------------------|-------------------------------|---------------------------|
| GHG 712 6 | 5015 ¹⁾ | RK 42 x 2.5 mm ² | 31 | 21 x M16 1 x M32 | Ø 7 - 12 mm Ø 18 - 27.5 mm | GHG 712 6201 R0001 |
|-----------|--------------------|-----------------------------|----|---------------------|-------------------------------|---------------------------|



| | | | | | | |
|-----------|--------------------|----------------------------|----|----------------|---|---------------------------|
| GHG 712 6 | 5015 ¹⁾ | RK 1 x 2.5 mm ² | 31 | without thread | - | GHG 712 6201 R0002 |
|-----------|--------------------|----------------------------|----|----------------|---|---------------------------|

¹⁾ RAL 5015 (sky-blue) for Ex-i application

²⁾ Cable glands type Capri ADE 1F2

SK = Terminal block with screw-terminals

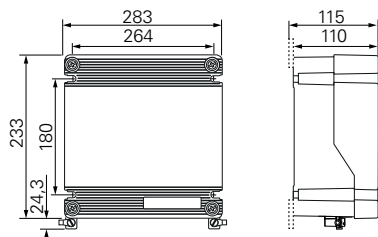
ZFKK= Cage-clamp

MK = Sheath terminals

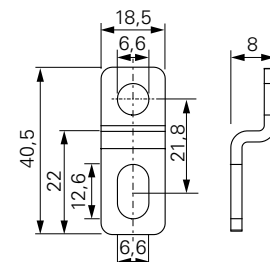
RK = serial terminals

Dimension drawings

GHG 71 - size 6



Mounting flaps Size 4-8



Dimensions in mm



Technical data

| | GHG 713 .. Empty enclosure Ex | GHG 712.. Junction box/terminal enclosure Ex | GHG 716 .. (714/15) Industrial enclosures |
|--|---|--|---|
| EC-Type Examination Certificate | BVS 15 ATEX E 127 U | BVS 16 ATEX E 007 | |
| IIEC-Ex Certificate of Conformity | IECEX BVS 15.1044 U | IECEX BVS 16.0007 | |
| Marking accd. to 94/9/EG | ⊕ II 2 G Ex eb IIC Gb ⊕ II 2 D Ex tb IIIC Db | ⊕ II 2 G Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb ⊕ II 2 D Ex tb IIIC T80° C (T95° C) Db | |
| Marking accd. to IECEx | Ex eb IIC Gb Ex tb IIIC Db | Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb Ex tb IIIC T80° C (T95° C) Db | |
| Permissible ambient temperature | | -55 °C up to +55 °C | |
| Operating-temperature range | -55 °C up to + 95 °C | | -55 °C up to + 95 °C |
| IK-class according to EN 50102 | IK 10 Δ 20 J | IK 10 Δ 20 J | IK 10 Δ 20 J |
| Rated voltage | up to 690 V AC / DC | up to 690 V AC / DC | up to 690 V AC / DC |
| Rated current | up to 125 A (depends on the configuration) | up to 125 A (depends on the configuration) | up to 125 A (depends on the configuration) |
| Max. power dissipation at Tu +40 °C | max. 46 W (T6) / max. 63 W (T5) | max. 46 W (T6) / max. 63 W (T5) | |
| Max. power dissipation at Tu +55 °C | max. 28 W (T6) / max. 46 W (T5) | max. 28 W (T6) / max. 46 W (T5) | |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz |
| Terminals ³⁾ /serial terminal (RK) | | max. 50 mm ² /2.5 mm ² - 50 mm ² | max. 50 mm ² /2.5 mm ² - 50 mm ² |
| Max. number of PE-terminals on PE-rail | | 28 | 28 |
| PE-terminal external | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² |
| PE-terminal internal | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² |
| Weight | 3.4 kg | depends on the configuration | 3.4 kg |
| Enclosure material | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) |
| Enclosure colour | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) |
| Cable glands / gland plates / enclosure drilling | | M12 - M63 ADE 1F2 other types on request | |
| Degree of protection accd. to EN 60529 | IP66 / IP67 / IP68 ⁴⁾ / IP69 | IP66 ¹⁾ | IP66 / IP67 / IP68 ⁴⁾ / IP69 |

Max. number of cable glands

| Cable glands/Thread (max. number/side) | Bottom | Top ²⁾ | Left | Right |
|--|--------|-------------------|------|-------|
| M12 | 48 | 24 | 12 | 12 |
| M16 | 28 | 20 | 9 | 9 |
| M20 | 17 | 9 | 5 | 5 |
| M25 | 11 | 6 | 3 | 3 |
| M32 | 5 | 5 | 2 | 2 |
| M40 | 4 | - | - | - |
| M50 | 3 | - | - | - |
| M63 | 3 | - | - | - |

Max. number of terminals³⁾

| Alignment of the DIN-rails | horizontal | | vertical | |
|----------------------------|--------------------------|---------------|-----------|-----------|
| | Number of rows | Useable legth | 1x 177 mm | 2x 177 mm |
| Number of rows | 1 | | 1 | 2 |
| Useable legth | 1x 238 mm | | 1x 177 mm | 2x 177 mm |
| Terminal dimension | Max. number of terminals | | | |
| 2,5 mm ² | 45 | | 34 | 68 |
| 4 mm ² | 38 | | 28 | 56 |
| 6 mm ² | 29 | | 21 | 42 |
| 10 mm ² | 23 | | 17 | - |
| 16 mm ² | 19 | | 14 | - |
| 35 mm ² | 14 | | 11 | - |
| 50 mm ² | - | | 8 | - |

¹⁾ Standard; other degree of protection on request

²⁾ In use of cable glands from the top please only use in dry rooms or mount protected against moisture.

³⁾ For Ex-e terminal boxes the max. current load must be observed

⁴⁾ On request

Max. number of conductors

| Rated current (A) | Cable cross section (mm ²) | | | | | | | | |
|-------------------|--|-----|----|----|----|----|----|----|----|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 |
| 6 A | 67 | | | | | | | | |
| 10 A | 23 | 45 | | | | | | | |
| 16 A | 9 | 26 | 50 | | | | | | |
| 20 A | | 12 | 28 | 55 | | | | | |
| 25 A | | | 8 | 21 | 53 | | | | |
| 35 A | | | | 3 | 17 | 44 | | | |
| 50 A | | | | | 6 | 20 | 73 | | |
| 63 A | | | | | | 8 | 23 | 82 | |
| 80 A | | | | | | | 9 | 21 | 22 |
| 100 A | | | | | | | | 8 | 22 |
| 125 A | | | | | | | | | 7 |

In this range as many terminals can be added as physically fit the available mounting dimension and according to the instructions.

The terminal content in this range requires a power dissipation test report from the manufacturer.

Ordering details/dimension drawings

GHG 71*7 - size 7

Ordering details

| Type | Colour (RAL) | Order No. |
|------|--------------|-----------|
|------|--------------|-----------|

Enclosures for industrial application



| | | |
|-----------|------|---------------------------|
| GHG 716 7 | 7032 | GHG 716 7101 R0001 |
|-----------|------|---------------------------|

Enclosures component certified accd. to ATEX/IECEX



| | | |
|-----------|------|---------------------------|
| GHG 713 7 | 7032 | GHG 713 7101 R0001 |
|-----------|------|---------------------------|



| | | |
|-----------|--------------------|---------------------------|
| GHG 713 7 | 5015 ¹⁾ | GHG 713 7201 R0001 |
|-----------|--------------------|---------------------------|

| Type | Colour (RAL) | Terminal type | No. of terminals/PE rail | Cable glands ²⁾ | Clamping range | Order No. |
|------|--------------|---------------|--------------------------|----------------------------|----------------|-----------|
|------|--------------|---------------|--------------------------|----------------------------|----------------|-----------|

Configured devices accd ATEX/IECEX



| | | | | | | |
|-----------|------|-----------------------------|----|---------------------|------------------------------|---------------------------|
| GHG 712 7 | 7032 | RK 60 x 2.5 mm ² | 28 | 30 x M12 1 x M40 | Ø 4.5 - 8 mm Ø 23 - 34 mm | GHG 712 7101 R0002 |
|-----------|------|-----------------------------|----|---------------------|------------------------------|---------------------------|

| | | | | | | |
|-----------|------|-----------------------------|----|---------------------|-----------------------------|---------------------------|
| GHG 712 7 | 7032 | RK 60 x 2.5 mm ² | 28 | 18 x M16 1 x M40 | Ø 7 - 12 mm Ø 23 - 34 mm | GHG 712 7101 R0003 |
|-----------|------|-----------------------------|----|---------------------|-----------------------------|---------------------------|

| | | | | | | |
|-----------|--------------------|-----------------------------|----|---------------------|------------------------------|---------------------------|
| GHG 712 7 | 5015 ¹⁾ | RK 60 x 2.5 mm ² | 28 | 30 x M12 1 x M40 | Ø 4.5 - 8 mm Ø 23 - 34 mm | GHG 712 7201 R0001 |
|-----------|--------------------|-----------------------------|----|---------------------|------------------------------|---------------------------|

| | | | | | | |
|-----------|--------------------|-----------------------------|----|---------------------|-----------------------------|---------------------------|
| GHG 712 7 | 5015 ¹⁾ | RK 60 x 2.5 mm ² | 28 | 18 x M16 1 x M40 | Ø 7 - 12 mm Ø 23 - 34 mm | GHG 712 7201 R0002 |
|-----------|--------------------|-----------------------------|----|---------------------|-----------------------------|---------------------------|



¹⁾ RAL 5015 (sky-blue) for Ex-i application

²⁾ Cable glands type Capri ADE 1F2

SK = Terminal block with screw-terminals

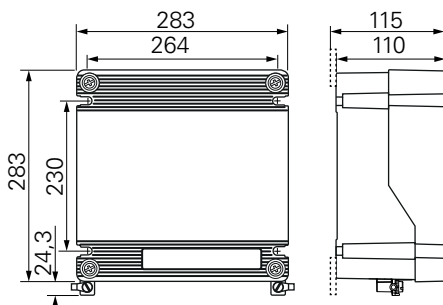
ZFKK= Cage-clamp

MK = Sheath terminals

RK = serial terminals

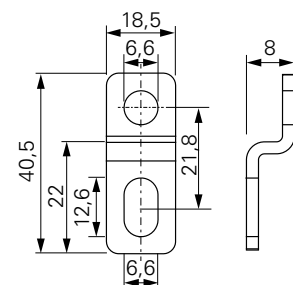
Dimension drawings

GHG 71 - size 7



Dimensions in mm

Mounting flaps Size 4-8





Technical data

| | GHG 713 .. Empty enclosure Ex | GHG 712.. Junction box/terminal enclosure Ex | GHG 716 .. (714/15) Industrial enclosures |
|--|---|--|---|
| EC-Type Examination Certificate | BVS 15 ATEX E 127 U | BVS 16 ATEX E 007 | |
| IIEC-Ex Certificate of Conformity | IECEX BVS 15.1044 U | IECEX BVS 16.0007 | |
| Marking accd. to 94/9/EG | ⊕ II 2 G Ex eb IIC Gb ⊕ II 2 D Ex tb IIIC Db | ⊕ II 2 G Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb ⊕ II 2 D Ex tb IIIC T80° C (T95° C) Db | |
| Marking accd. to IECEx | Ex eb IIC Gb Ex tb IIIC Db | Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb Ex tb IIIC T80° C (T95° C) Db | |
| Permissible ambient temperature | | -55 °C up to +55 °C | |
| Operating-temperature range | -55 °C up to +95 °C | | -55 °C up to +95 °C |
| IK-class according to EN 50102 | IK 10 Δ 20 J | IK 10 Δ 20 J | IK 10 Δ 20 J |
| Rated voltage | up to 690 V AC / DC | up to 690 V AC / DC | up to 690 V AC / DC |
| Rated current | up to 125 A (depends on the configuration) | up to 125 A (depends on the configuration) | up to 125 A (depends on the configuration) |
| Max. power dissipation at Tu +40 °C | max. 54 W (T6) / max. 74 W (T5) | max. 54 W (T6) / max. 74 W (T5) | |
| Max. power dissipation at Tu +55 °C | max. 33 W (T6) / max. 54 W (T5) | max. 33 W (T6) / max. 54 W (T5) | |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz |
| Terminals ³⁾ /serial terminal (RK) | | max. 50 mm ² /2.5 mm ² - 50 mm ² | max. 50 mm ² /2.5 mm ² - 50 mm ² |
| Max. number of PE-terminals on PE-rail | | 28 | 28 |
| PE-terminal external | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² |
| PE-terminal internal | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² |
| Weight | 3.8 kg | depends on the configuration | 3.8 kg |
| Enclosure material | Aluminium die-cast AISi10Mg (Cu <0,1%) | Aluminium die-cast AISi10Mg (Cu <0,1%) | Aluminium die-cast AISi10Mg (Cu <0,1%) |
| Enclosure colour | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) |
| Cable glands / gland plates / enclosure drilling | | M12 - M63 ADE 1F2 other types on request | |
| Degree of protection accd. to EN 60529 | IP66 / IP67 / IP68 ⁴⁾ / IP69 | IP66 ¹⁾ | IP66 / IP67 / IP68 ⁴⁾ / IP69 |

Max. number of cable glands

| Cable glands/Thread (max. number/side) | Bottom | Top ²⁾ | Left | Right |
|--|--------|-------------------|------|-------|
| M12 | 48 | 24 | 17 | 17 |
| M16 | 28 | 20 | 13 | 13 |
| M20 | 17 | 9 | 6 | 6 |
| M25 | 11 | 6 | 4 | 4 |
| M32 | 5 | 5 | 3 | 3 |
| M40 | 4 | - | - | - |
| M50 | 3 | - | - | - |
| M63 | 2 | - | - | - |

Max. number of terminals³⁾

| Alignment of the DIN-rails | horizontal | | vertical | |
|----------------------------|----------------|----------------|----------------|----------------|
| | Number of rows | Useable length | Number of rows | Useable length |
| Number of rows | 1 | 1x 238 mm | 2 | 1x 238 mm |
| Useable length | | 1x 188 mm | | 2x 225 mm |

| Terminal dimension | Max. number of terminals | | | |
|---------------------|--------------------------|-------------------|------|-------|
| | Bottom | Top ²⁾ | Left | Right |
| 2,5 mm ² | 45 | 81 | 43 | 86 |
| 4 mm ² | 38 | 68 | 36 | 72 |
| 6 mm ² | 29 | 51 | 27 | 54 |
| 10 mm ² | 23 | 18 | 22 | 44 |
| 16 mm ² | 19 | - | 18 | - |
| 35 mm ² | 14 | - | 14 | - |
| 50 mm ² | 11 | - | 11 | - |

¹⁾ Standard; other degree of protection on request

²⁾ In use of cable glands from the top please only use in dry rooms or mount protected against moisture.

³⁾ For Ex-e terminal boxes the max. current load must be observed

⁴⁾ On request

Max. number of conductors

| Rated current (A) | Cable cross section (mm ²) | | | | | | | | | |
|-------------------|--|--|----|----|----|----|----|----|----|--|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | |
| 6 A | 71 | In this range as many terminals can be added as physically fit the available mounting dimension and according to the instructions. | | | | | | | | |
| 10 A | 24 | 47 | | | | | | | | |
| 16 A | 10 | 27 | 53 | | | | | | | |
| 20 A | | 13 | 30 | 58 | | | | | | |
| 25 A | | | 9 | 23 | 57 | | | | | |
| 35 A | | | | 3 | 18 | 47 | | | | |
| 50 A | | | | | 6 | 22 | 77 | | | |
| 63 A | | | | | | 8 | 24 | 87 | | |
| 80 A | | | | | | | 10 | 23 | 23 | |
| 100 A | | | | | | | | 9 | 23 | |
| 125 A | | | | | | | | | 8 | |

The terminal content in this range requires a power dissipation test report from the manufacturer.

Ordering details/dimension drawings

GHG 71*8 - size 8

Ordering details

| Type | Colour (RAL) | Order No. |
|------|--------------|-----------|
|------|--------------|-----------|

Enclosures for industrial application



| | | |
|-----------|------|---------------------------|
| GHG 716 8 | 7032 | GHG 716 8101 R0001 |
|-----------|------|---------------------------|

Enclosures component certified accd. to ATEX/IECEX



| | | |
|-----------|------|---------------------------|
| GHG 713 8 | 7032 | GHG 713 8101 R0001 |
|-----------|------|---------------------------|



| | | |
|-----------|--------------------|---------------------------|
| GHG 713 8 | 5015 ¹⁾ | GHG 713 8201 R0001 |
|-----------|--------------------|---------------------------|

| Type | Colour (RAL) | Terminal type | No. of terminals/PE rail | Cable glands ²⁾ | Clamping range | Order No. |
|------|--------------|---------------|--------------------------|----------------------------|----------------|-----------|
|------|--------------|---------------|--------------------------|----------------------------|----------------|-----------|

Configured devices accd ATEX/IECEX



| | | | | | | |
|-----------|------|----------------------------|----|----------------|---|---------------------------|
| GHG 712 8 | 7032 | RK 1 x 2.5 mm ² | 65 | without thread | - | GHG 712 8101 R0002 |
|-----------|------|----------------------------|----|----------------|---|---------------------------|



| | | | | | | |
|-----------|--------------------|----------------------------|----|----------------|---|---------------------------|
| GHG 712 8 | 5015 ¹⁾ | RK 1 x 2.5 mm ² | 65 | without thread | - | GHG 712 8201 R0001 |
|-----------|--------------------|----------------------------|----|----------------|---|---------------------------|

¹⁾ RAL 5015 (sky-blue) for Ex-i application

²⁾ Cable glands type Capri ADE 1F2

SK = Terminal block with screw-terminals

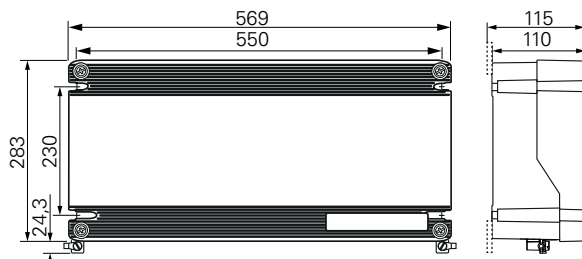
ZFKK= Cage-clamp

MK = Sheath terminals

RK = serial terminals

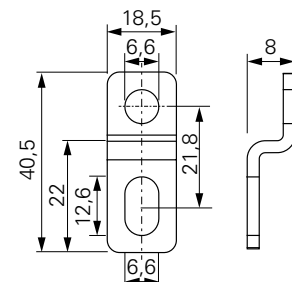
Dimension drawings

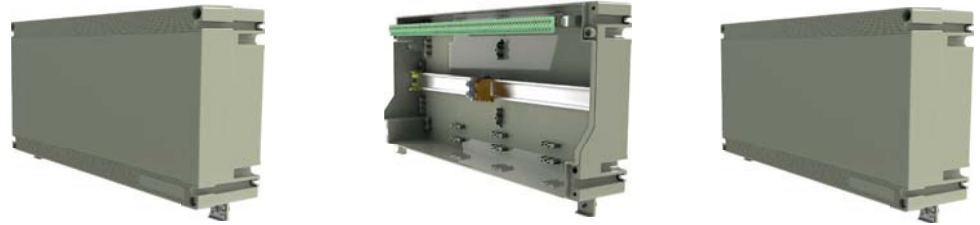
GHG 71 - size 8



Dimensions in mm

Mounting flaps Size 4-8





Technical data

| | GHG 713 .. Empty enclosure Ex | GHG 712.. Junction box/terminal enclosure Ex | GHG 716 .. (714/15) Industrial enclosures |
|--|---|--|---|
| EC-Type Examination Certificate | BVS 15 ATEX E 127 U | BVS 16 ATEX E 007 | |
| IIEC-Ex Certificate of Conformity | IECEX BVS 15.1044 U | IECEX BVS 16.0007 | |
| Marking accd. to 94/9/EG | ⊕ II 2 G Ex eb IIC Gb ⊕ II 2 D Ex tb IIIC Db | ⊕ II 2 G Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb ⊕ II 2 D Ex tb IIIC T80° C (T95° C) Db | |
| Marking accd. to IECEx | Ex eb IIC Gb Ex tb IIIC Db | Ex [ia/ib] (d e mb) IIC T4/T5/T6 Gb Ex tb IIIC T80° C (T95° C) Db | |
| Permissible ambient temperature | | -55 °C up to +55 °C | |
| Operating-temperature range | -55 °C up to + 95 °C | | -55 °C up to + 95 °C |
| IK-class according to EN 50102 | IK 10 Δ 20 J | IK 10 Δ 20 J | IK 10 Δ 20 J |
| Rated voltage | up to 690 V AC / DC | up to 690 V AC / DC | up to 690 V AC / DC |
| Rated current | up to 125 A (depends on the configuration) | up to 125 A (depends on the configuration) | up to 125 A (depends on the configuration) |
| Max. power dissipation at Tu +40 °C | max. 96 W (T6) / max. 132 W (T5) | max. 96 W (T6) / max. 132 W (T5) | |
| Max. power dissipation at Tu +55 °C | max. 60 W (T6) / max. 96 W (T5) | max. 60 W (T6) / max. 96 W (T5) | |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | 50 - 60 Hz |
| Terminals ³⁾ /serial terminal (RK) | | max. 50 mm ² /2.5 mm ² - 50 mm ² | max. 50 mm ² /2.5 mm ² - 50 mm ² |
| Max. number of PE-terminals on PE-rail | | 65 | 65 |
| PE-terminal external | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² |
| PE-terminal internal | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² | from 2,5 mm ² - 6 mm ² up to 70 mm ² |
| Weight | 6.2 kg | depends on the configuration | 6.2 kg |
| Enclosure material | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) | Aluminium die-cast AlSi10Mg (Cu <0,1%) |
| Enclosure colour | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) | RAL 7032 pebble grey, RAL 5015 (Ex-i application) or unpainted (on request) |
| Cable glands / gland plates / enclosure drilling | | M12 - M63 ADE 1F2 other types on request | |
| Degree of protection accd. to EN 60529 | IP66 / IP67 / IP68 ⁴⁾ / IP69 | IP66 ¹⁾ | IP66 / IP67 / IP68 ⁴⁾ / IP69 |

Max. number of cable glands

| Cable glands/Thread (max. number/side) | Bottom | Top ²⁾ | Left | Right |
|--|--------|-------------------|------|-------|
| M12 | 133 | 50 | 17 | 17 |
| M16 | 70 | 43 | 13 | 13 |
| M20 | 47 | 23 | 6 | 6 |
| M25 | 26 | 14 | 4 | 4 |
| M32 | 12 | 10 | 3 | 3 |
| M40 | 9 | - | - | - |
| M50 | 6 | - | - | - |
| M63 | 5 | - | - | - |

Max. number of terminals³⁾

| Alignment of the DIN-rails | horizontal | | vertical | | |
|----------------------------|--------------------------|------------------------|-----------|-----------|-----------|
| | Number of rows | Useable legth | 1 | 2 | 3 |
| Number of rows | 1 | 2 | 1 | 2 | 3 |
| Useable legth | 1x 524 mm | 1x 478 mm 1x 524 mm | 1x 226 mm | 2x 226 mm | 3x 226 mm |
| Terminal dimension | Max. number of terminals | | | | |
| 2,5 mm ² | 100 | 191 | 43 | 86 | 129 |
| 4 mm ² | 84 | 161 | 36 | 72 | 108 |
| 6 mm ² | 63 | 121 | 27 | 54 | 81 |
| 10 mm ² | 51 | 97 | 22 | 44 | 66 |
| 16 mm ² | 42 | - | 18 | 36 | - |
| 35 mm ² | 32 | - | 14 | - | - |
| 50 mm ² | 26 | - | 11 | - | - |

¹⁾ Standard; other degree of protection on request

²⁾ In use of cable glands from the top please only use in dry rooms or mount protected against moisture.

³⁾ For Ex-e terminal boxes the max. current load must be observed

⁴⁾ On request




Max. number of conductors

| Rated current (A) | Cable cross section (mm ²) | | | | | | | | | |
|-------------------|--|--|----|----|----|----|----|----|----|--|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | |
| 6 A | 81 | In this range as many terminals can be added as physically fit the available mounting dimension and according to the instructions. | | | | | | | | |
| 10 A | 27 | 53 | | | | | | | | |
| 16 A | 11 | 31 | 60 | | | | | | | |
| 20 A | | 15 | 34 | 66 | | | | | | |
| 25 A | | | 10 | 26 | 64 | | | | | |
| 35 A | | | | 3 | 21 | 53 | | | | |
| 50 A | | | | | 7 | 24 | 87 | | | |
| 63 A | | | | | | 9 | 27 | 98 | | |
| 80 A | | | | | | | 11 | 26 | 26 | |
| 100 A | | | | | | | | 10 | 26 | |
| 125 A | | | | | | | | | 9 | |

Accessories and spare parts

GHG 71

Ordering details accessories/spare parts

| Type | Order unit | Order No. |
|---|------------|------------------------|
| Accessories/spare parts terminal/junction box | | |
|  Enclosure cover GHG71 RAL7032 Size1 with cover screws | 1 | GHG7101905R0001 |
| Enclosure cover GHG71 RAL7032 Size2 with cover screws | 1 | GHG7101905R0002 |
| Enclosure cover GHG71 RAL7032 Size3 with cover screws | 1 | GHG7101905R0003 |
| Enclosure cover GHG71 RAL7032 Size4 with cover screws | 1 | GHG7101905R0004 |
| Enclosure cover GHG71 RAL7032 Size5 with cover screws | 1 | GHG7101905R0005 |
| Enclosure cover GHG71 RAL7032 Size6 with cover screws | 1 | GHG7101905R0006 |
| Enclosure cover GHG71 RAL7032 Size7 with cover screws | 1 | GHG7101905R0007 |
| Enclosure cover GHG71 RAL7032 Size8 with cover screws | 1 | GHG7101905R0008 |
|  Enclosure cover GHG71 RAL5015 Size1 with cover screws | 1 | GHG7101905R0009 |
| Enclosure cover GHG71 RAL5015 Size2 with cover screws | 1 | GHG7101905R0010 |
| Enclosure cover GHG71 RAL5015 Size3 with cover screws | 1 | GHG7101905R0011 |
| Enclosure cover GHG71 RAL5015 Size4 with cover screws | 1 | GHG7101905R0012 |
| Enclosure cover GHG71 RAL5015 Size5 with cover screws | 1 | GHG7101905R0013 |
| Enclosure cover GHG71 RAL5015 Size6 with cover screws | 1 | GHG7101905R0014 |
| Enclosure cover GHG71 RAL5015 Size7 with cover screws | 1 | GHG7101905R0015 |
| Enclosure cover GHG71 RAL5015 Size8 with cover screws | 1 | GHG7101905R0016 |
|  Terminal block screw terminals GHG71 with fixing material | 1 | GHG7101906R0001 |
|  Sheath terminals EAZK with fixing material | 5 | GHG7101906R0002 |
| PE terminals for PE rail GHG71 | 10 | GHG7101907R0001 |
|  PE rail set for GHG71 Size 3 (PE rail, holder and mounting material) | 1 | GHG7101907R0002 |
| PE rail set for GHG71 Size 4 (PE rail, holder and mounting material) | 1 | GHG7101907R0003 |
| PE rail set for GHG71 Size 5 (PE rail, holder and mounting material) | 1 | GHG7101907R0004 |
| PE rail set for GHG71 Size 6 (PE rail, holder and mounting material) | 1 | GHG7101907R0005 |
| PE rail set for GHG71 Size 7 (PE rail, holder and mounting material) | 1 | GHG7101907R0006 |
| PE rail set for GHG71 Size 8 (PE rail, holder and mounting material) | 1 | GHG7101907R0007 |
|  Cable lug set for GHG71. comprising 2 cable lugs of each size | 1 | GHG7101908R0001 |
|  Mounting flaps GHG71 Size 4-8 Set, comprising 4 mounting flaps plus mounting material | 1 | GHG7101901R0002 |
| Mounting flaps GHG71 Size 3 Set, comprising 4 mounting flaps plus mounting material | 1 | GHG7101901R0003 |
| Mounting flaps GHG71 Size 1-2 Set, comprising 4 mounting flaps plus mounting material | 1 | GHG7101901R0001 |
|  DIN rail holder GHG71 | 10 | GHG7101903R0001 |
| Terminal rail GHG71 Size 3 L=103 mm (DIN rail, suspended) | 5 | GHG7101909R0001 |
| Terminal rail GHG71 Size 4 L=200 mm (DIN rail, suspended) | 5 | GHG7101909R0002 |
| Terminal rail GHG71 Size 5 L=159 mm (DIN rail, suspended) | 5 | GHG7101909R0003 |
| Terminal rail GHG71 Size 6 L=254 mm (DIN rail, suspended) | 5 | GHG7101909R0004 |
| Terminal rail GHG71 Size 7 L=254 mm (DIN rail, suspended) | 5 | GHG7101909R0005 |
| Terminal rail GHG71 Size 8 L=539 mm (DIN rail, suspended) | 5 | GHG7101909R0006 |
|  GHG71 internal mounting plate size 3 | 1 | GHG7101911R0001 |
| GHG71 internal mounting plate size 4 | 1 | GHG7101911R0002 |
| GHG71 internal mounting plate size 5 | 1 | GHG7101911R0003 |
| GHG71 internal mounting plate size 6 | 1 | GHG7101911R0004 |
| GHG71 internal mounting plate size 7 | 1 | GHG7101911R0005 |
| GHG71 internal mounting plate size 8 | 1 | GHG7101911R0006 |

Equipping of the DIN rail

Table: Maximum equipping of the DIN rail

| | | Size 3 | Size 4 | Size 5 | Size 6 | Size 7 | Size 8 |
|-----------------------|---------------------------|-------------------|--------------------|--------------------|--------------------|---------------------------------------|---------------------------------------|
| Horizontal single row | DIN rail: useable length | 1 x 78 mm | 1 x 158 mm | 1 x 122 mm | 1 x 238 mm | 1 x 238 mm | 1 x 524 mm |
| | Maximum terminal diameter | 6 mm ² | 6 mm ² | 16 mm ² | 35 mm ² | 50 mm ² | 50 mm ² |
| Horizontal double row | DIN rail: useable length | - | - | - | - | 1 x 238 mm 1 x 188 mm | 1 x 478 mm 1 x 524 mm ² |
| | Maximum terminal diameter | - | - | - | - | 6 mm ² /10 mm ² | 10 mm ² |
| Vertical single row | DIN rail: useable length | 1 x 88 mm | 1 x 80 mm | 1 x 143 mm | 1 x 177 mm | 1 x 225 mm ² | 1 x 226 mm |
| | Maximum terminal diameter | 6 mm ² | 10 mm ² | 16 mm ² | 50 mm ² | 50 mm ² | 50 mm ² |
| Vertical double row | DIN rail: useable length | - | - | - | 2 x 177 mm | 2 x 225 mm | 2 x 226 mm |
| | Maximum terminal diameter | - | - | - | 6 mm ² | 10 mm ² | 16 mm ² |
| Vertical triple row | DIN rail: useable length | - | - | - | - | - | 3 x 226 mm |
| | Maximum terminal diameter | - | - | - | - | - | 10 mm ² |

Table: Maximum equipping of the DIN rail: Selection of the terminals²⁾

| | Size 3 | | Size 4 | | Size 5 | | Size 6 | | Size 7 | | | | Size 8 | | | | | |
|--|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|---|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Ausr./ Anz. der- Reihen | horizontal | vertical | horizontal | vertical | horizontal | vertical | horizontal | vertical | vertical | horizontal | horizontal | vertical | vertical | horizontal | horizontal | vertical | vertical | vertical |
| Useable length | 1x 78 mm | 1x 88 mm | 1x 158 mm | 1x 80 mm | 1x 122 mm | 1x 143 mm | 1x 238 mm | 1x 177 mm | 2x 177 mm | 1x 238 mm | 1x 238 mm | 1x 225 mm ² | 2x 225 mm | 1x 524 mm | 1x 478 mm | 1x 226 mm | 2x 226 mm | 3x 226 mm |
| Max. Size Klemme | 6 mm ² | 6 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 16 mm ² | 35 mm ² | 50 mm ² | 6 mm ² | 50 mm ² | 6 mm ² 10 mm ² | 50 mm ² | 10 mm ² | 50 mm ² | 10 mm ² | 50 mm ² | 16 mm ² | 10 mm ² |
| Terminal size - maximum number of terminals | | | | | | | | | | | | | | | | | | |
| 2,5 mm ² | 15 | 16 | 30 | 15 | 23 | 27 | 45 | 34 | 68 | 45 | 81 | 43 | 86 | 100 | 191 | 43 | 86 | 129 |
| 4 mm ² | 12 | 14 | 25 | 12 | 19 | 23 | 38 | 28 | 56 | 38 | 68 | 36 | 72 | 84 | 161 | 36 | 72 | 108 |
| 6 mm ² | 9 | 10 | 19 | 9 | 14 | 17 | 29 | 21 | 42 | 29 | 51 | 27 | 54 | 63 | 121 | 27 | 54 | 81 |
| 10 mm ² | - | - | - | 7 | 11 | 14 | 23 | 17 | - | 23 | 18 | 22 | 44 | 51 | 97 | 22 | 44 | 66 |
| 16 mm ² | - | - | - | - | 10 | 11 | 19 | 14 | - | 19 | - | 18 | - | 42 | - | 18 | 36 | - |
| 35 mm ² | - | - | - | - | - | - | 14 | 11 | - | 14 | - | 14 | - | 32 | - | 14 | - | - |
| 50 mm ² | - | - | - | - | - | - | - | 8 | - | 11 | - | 11 | - | 26 | - | 11 | - | - |



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