

## PORTABLE MULTI-OUTLET DISTRIBUTIONS AND CABLE REELS

16 A and 32 A for Zone 1 and Zone 21

1 Electrical equipment, such as pumps, scales, etc. can be used flexibly in areas of Zone 1 and Zone 2 that are at risk of explosions, they can be safely supplied with energy by means of portable CEAG multi-outlet distribution units or cable reels.

The multi-outlet distribution units are equipped with flange-mounting socket outlets that even comply with the high degree of protection IP66 when they are plugged in.

This means that this distribution units are also suitable for use in the harshest industrial conditions.

The portable, explosion-protected cable reels can be used to supply electricity flexibly to portable electrical equipment to areas of Zone 1 and Zone 2 that are at risk of explosions. Furthermore, the cable drum can be used as a multiple socket outlet. Different combinations of plugs and receptacles allow variable deployments. The cable drum with a stainless steel housing comprises up to three explosion-protected flange-mounting socket outlets as well as the wound cable with a plug. One bolt each for inner and outer connection to the side wall are also welded on for connection to the protective conductor or potential equalisation conductor. Optionally, the cable reel can also be supplied with conductive reels.

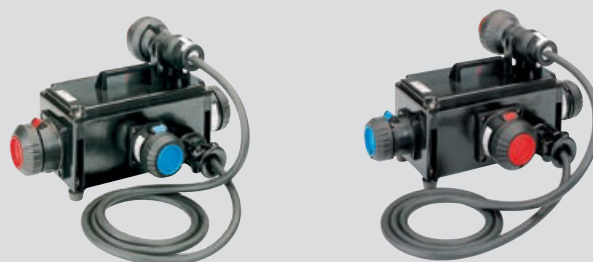
A version of all-rubber design for use in harsh areas offers various applications. The small design gives best opportunities to be stored in operation vehicles or container.

All portable distributions are for use by:

- fire brigades
- civil defence
- rescue services
- police
- maintenance operation

- High IP 66 protection
- Portable distribution of electricity via sockets in the area at risk of explosions
- Mechanical, chemical and thermal resistance
- Variable socket combinations
- Glove operation





16A 5-pole

16A 3-pole

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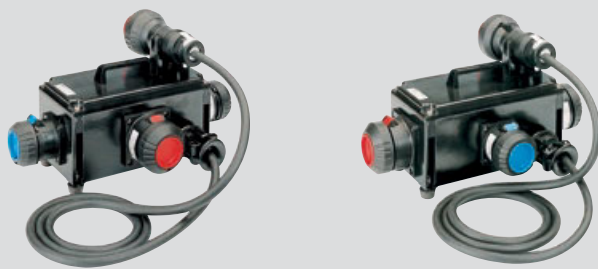
## Technical data

### 16A 3-pole | 16A 5-pole

Marking accd. to 94/9/EC	Ex II 2 G Ex ed IIC T6
EC-Type Examination Certificate	PTB 02 ATEX 1035
Permissible ambient temperature	-20 °C to +40 °C <sup>1)</sup>
Rated voltage	3-pole 16 A: up to 500 V / 5-pole 16 A: up to 400 V
Rated current	16 A
Frequency	50/60 Hz
Rated making / Rated breaking capacity AC-3 accd. EN 60947-3	U <sub>e</sub> 690 V / I <sub>e</sub> 16 A
External back up fuse	without thermal protection: 16 A with thermal protection: 25 A gL (rated current 16 A set to)
Degree of protection accd. to EN 60529	IP66
Cable entry/enclosure drilling	Trumpet shaped cable gland M32
Weight	with 2 m connecting cable: 4.2 kg / with 5 m connecting cable 5.2 kg
Enclosure material	Socket distribution: glass-fibre reinforced polyester Plug and flange socket: polyamide
Enclosure colour	black

<sup>1)</sup> extended temperature range on request

## Ex-Portable outlet distributions 16A 3-pole, 5-pole



16A 5/3-pole

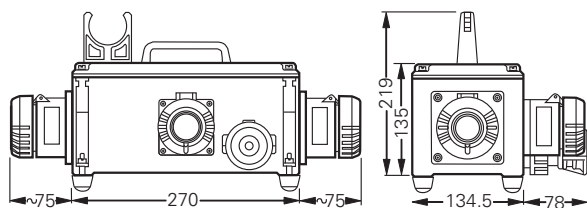
16A 3/5-pole

### Ordering details

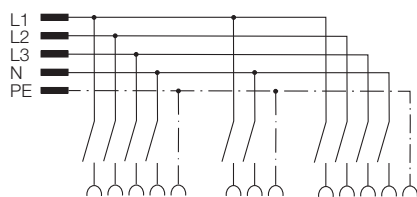
Design	Version	Order No.
<b>Type design with 2 m connecting cable</b>		
2 x socket 16 A	3-pole	GHG 931 0003 R0011
1 x socket 16 A	5-pole	
1 x socket 16 A	3-pole	GHG 931 0003 R0012
2 x socket 16 A	5-pole	
3 x socket 16 A	3-pole	GHG 931 0003 R0013
<b>Type design with 5 m connecting cable</b>		
2 x socket 16 A	3-pole	GHG 931 0003 R0021
1 x socket 16 A	5-pole	
1 x socket 16 A	3-pole	GHG 931 0003 R0022
2 x socket 16 A	5-pole	
3 x socket 16 A	3-pole	GHG 931 0003 R0023

Other configurations on request.

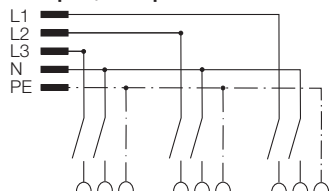
### Dimension drawing | Wiring diagram



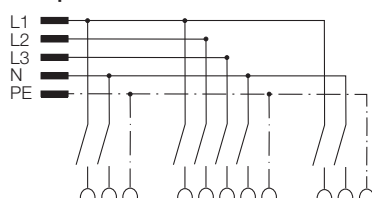
Socket distribution 16A 3-pole/5-pole



2 x 5-pole, 1 x 3-pole



3 x 3-pole



2 x 3-pole, 1 x 5-pole

Dimensions in mm



Stainless steel

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## Technical data

### Cable reel stainless steel

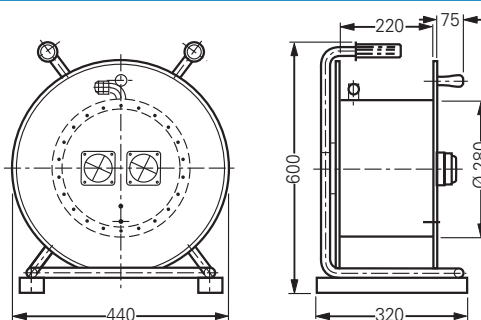
Marking accd. to 94/9/EC	II 2 G Ex de IIC T6
EC-Type Examination Certificate	PTB 08 ATEX 1073
Permissible ambient temperature	-20 °C ... +55 °C <sup>1)</sup>
Rated voltage	3-pole: 415 V 5-pole: 500 V (690 V up to 5 h)
Rated current	16 A/32 A
Frequency	50/60 Hz
External back up fuse	without thermal protection: 16 A with thermal protection: 25 A gL (rated current 16 A set to)
Protection class	I
Degree of protection accd. to EN 60529	IP54
Weight	16 A with 20 m connecting cable approx. 22 - 30 kg design depending / 32 A with 20 m connecting cable approx. 28 - 50 kg design depending
Enclosure material	Cable reel: enclosure stainless steel Plug and flange socket: polyamide

<sup>1)</sup> extended temperature range on request

## Ordering details

Design	Version	Order No.
<b>Stainless steel 16 A design with 20 m connecting cable HO7...</b>		
1 x Flange socket 16 A 3-pole		
1 x Flange socket 16 A 5-pole	5 x 2.5 mm <sup>2</sup>	GHG 931 0003 R0031
3 x Flange socket 16 A 3-pole	3 x 2.5 mm <sup>2</sup>	GHG 931 0003 R0032
2 x Flange socket 16 A 5-pole	5 x 2.5 mm <sup>2</sup>	GHG 931 0003 R0033
<b>Stainless steel 16 A design with 20 m connecting cable HO7...</b>		
2 x Flange socket 32 A 4-pole	4 x 4 mm <sup>2</sup>	GHG 931 0003 R0034
2 x Flange socket 32 A 5-pole	5 x 4 mm <sup>2</sup>	GHG 931 0003 R0035
1 x Flange socket 16 A 5-pole		
1 x Flange socket 32 A 5-pole	5 x 4 mm <sup>2</sup>	GHG 931 0003 R0036

## Dimension drawing



Dimensions in mm



# EX-PROTECTED PORTABLE POWER SUPPLY UNITS

16 A – 125 A for Zone 1

**1** Special requirements apply for power distributions for the use and operation of portable equipment in hazardous areas in Zones 1, 2, 21 and 22. It is necessary to ensure that any external mechanical influences are effectively kept away from the equipment.

CEAG explosion-protected power distributions fulfil these high mechanical explosion protection requirements by means of a high-strength protective framework made of stainless steel (1.4301) and enclosures that have been specially developed for this purpose.

Whether in accordance with customer requirements or as a series product, sizes 16 A – 125 A are possible. All the electrical outgoing circuits can be fitted with separate MCBs or ELCBs. Customized components, such as electronic subassemblies, can also be safely built into special, flameproof enclosures with the required Certificate of Conformity.

The power distributions are fitted with flange sockets that fulfil the high requirements of the degree of protection IP 66, even with plugs inserted.

Thus, these distributions are even suitable for use under most extreme industrial conditions.

For the additional connection to the protective conductor (PE) or equipotential bonding conductor (PA), there is a stud welded directly onto the framework.

## International approvals.

- Flexible power distribution in the hazardous area thanks to sockets with lamellar contacts for optimum contact safety
- Padlocking of switch with all-pole disconnection and full AC3 switching capacity
- High mechanical, chemical and thermal resistance
- Customer specific design





EXKO 233201 A0015

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## Technical data

### Ex-protected portable power supply unit EXKO

Marking accd. to 94/9/EC	Ex II 2 G Ex de IIC T4 / Ex II 2 D Ex tD A21 IP65 T95°C
EC-Type Examination Certificate	PTB 99 ATEX 1044
Permissible ambient temperature	-20°C up to +40°C
Rated voltage	400 V / 230 V
Rated current	63 A
Frequency	50 - 60 Hz
Back-up fuse external	63A gL / gG
Protection class	I
Degree of protection accd. to EN 60529	IP65
Cable entry	1 x M50 Trumpet shaped cable gland
Enclosure material	sheet steel, painted (option stainless steel AISI 316L) Wall socket: glass-fibre reinforced polyester, plug: polyamide
Dimensions (H x W x D)	metal frame stainless steel, squared 20 x 20 x 2 including lockable wheels 968 x 800 x 600 mm
Enclosure colour	RAL 7032

## Ordering details

Design	Components external	Order No.
1x MCB 4-pole - C40A, 10kA 1x RCD 4-pole - 40A 0.03A 10kA 1x RCD 4-pole - 63A 0.03A, 10kA 3x RCD with overcurrent protection (1-pole+N, C16A/0.03, 10kA) 3x MCB 4-pole - C32A, 10kA	1x Plug 63A 5-pole, 06h (GHG5147506R0001) 1x Wall socket 63A 5-pole, 06h (GHG5144506R0001) 3x Flange socket 32A 5-pole, 06h (GHG5128506R0001) 6x Flange socket 16A 3-pole, 06h (GHG5118306R0001) actuating flap for components	EXKO 233201 A0015

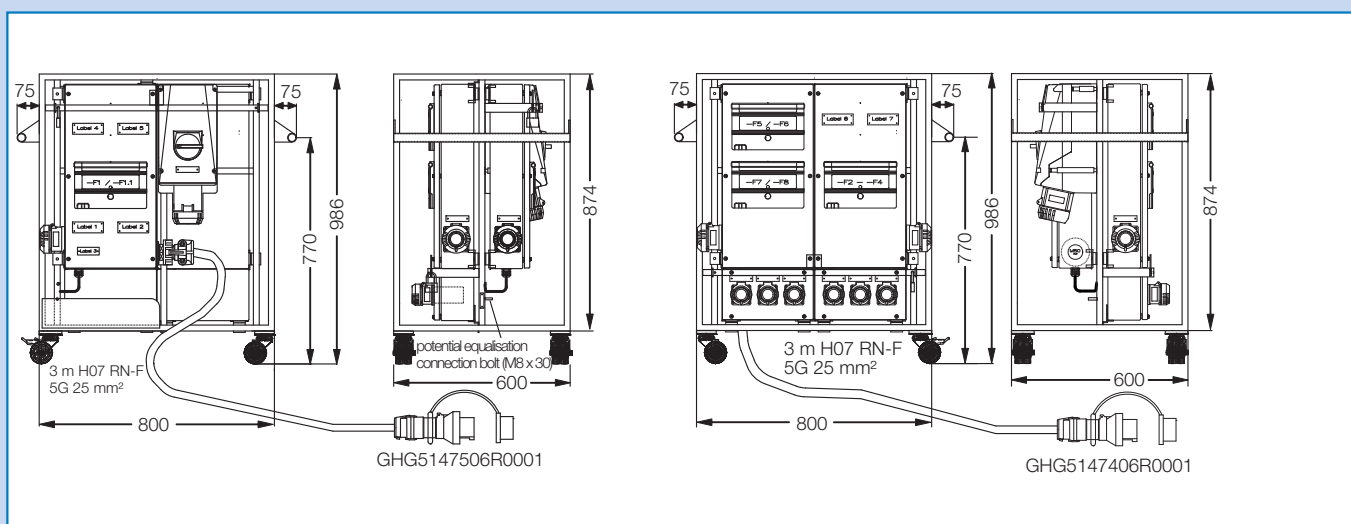
Option:

Padlock facility for enclosure cover

Enclosure material stainless steel AISI 316L

Customized solution for connection cable, plugs & sockets and rated voltage

## Dimension drawing



Dimensions in mm

## Ex-protected portable power supply units



only for illustration

### Technical data

#### Ex-protected portable power supply unit EXKO 233201 A0016

Marking accd. to 94/9/EC	Ex II 2 G Ex de IIC T4 / Ex II 2 D IP65 T95°C
EC-Type Examination Certificate	PTB 99 ATEX 1044
Permissible ambient temperature	-20 °C to +40 °C
Rated voltage	400 V / 230 V
Rated current	32 A
Frequency	50 Hz
Back-up fuse external	32 A gL / gG
Protection class	I
Degree of protection accd. to EN 60529	IP65
Cable entry	1x M32 Trumpet shaped cable gland, 1x M12 cable gland plastic
Connecting cable	H07RN-F 5 x 6mm² with plug 32A, 3 m
Enclosure material	Sheet steel, painted (optional: stainless steel AISI 316L), Wall socket: glass-fibre reinforced polyester, plug: polyamide
Dimensions (H x W x D)	Metal frame stainless steel squared 20 x 20 x 2 including lockable wheels 1019 x 800 x 600 mm
Weight	69 kg
Enclosure colour	RAL 7032

### Ordering details

Design	Components external	Order No.
1x MCB S204M - C32A, 10kA 1x RCD F204A - 40A 0.03A 10kA 3x RCBO DS971 - C16A 0.03A, 10kA	1x Plug 32A 5-pole, 380-415V (06h) (GHG5127506R0001) 1x Flange socket 32A 5-pole, 380-415V (06h) (GHG5128506R0001) 6x Flange socket 16A 3-pole, 230V (06h) (GHG5118306R0001) actuating flap for components	<b>EXKO 233201 A0016</b>

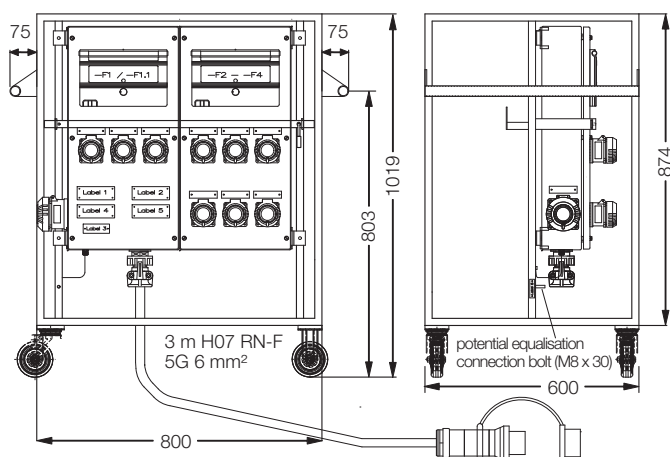
Option:

Padlock facility for enclosure cover

Enclosure material stainless steel AISI 316L

Customized solution for connection cable, plugs & sockets and rated voltage

### Dimension drawing



Dimensions in mm



only for illustration

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## Technical data

### Ex-protected portable power supply unit EXKO 233201 A0006

Marking accd. to 94/9/EC	Ex II 2 G Ex de IIC T4
EC-Type Examination Certificate	PTB 99 ATEX 1044
Permissible ambient temperature	-20 °C to +40 °C
Rated voltage	230/24 V transformer, 100 VA
Rated current	16 A
Frequency	50 Hz
Back-up fuse external	16 A gL / gG
Protection class	I
Degree of protection accd. to EN 60529	IP65
Cable entry	1x M25 Trumpet shaped cable gland, 1x M12 cable gland plastic
Enclosure material	glass-fibre reinforced polyester (option sheet steel, painted or stainless steel AISI 316L) Wall socket: glass-fibre reinforced polyester, plug: polyamide
Dimensions (H x W x D)	Metal frame stainless steel squared 20 x 20 x 2 with wheels 1062 x 500 x 336 mm
Weight	30 kg
Enclosure colour	black

## Ordering details

Design	Components external	Order No.
1x MCB S202M - K0.5A, 10kA 1x RCBO DS971 - C4A 0.03A, 10kA 1x transformer 230/24V 100VA	2x Flange socket 16A 3-pole, 24V (GHG5420007R0003) actuating flap for components	EXKO 233201 A0006

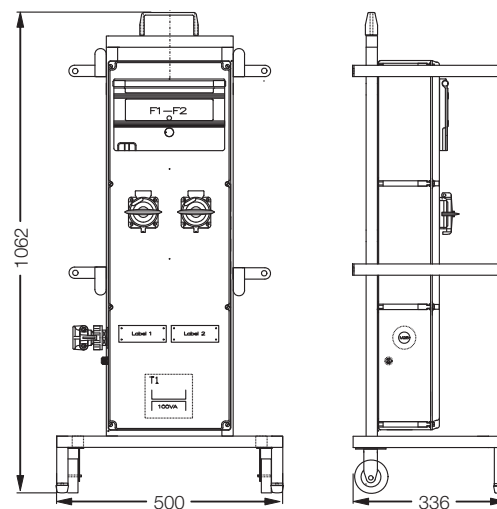
Option:

Padlock facility for enclosure cover

Enclosure material stainless steel AISI 316L

Customized solution for connection cable, plugs & sockets and rated voltage

## Dimension drawing



Dimensions in mm



## Ex-protected portable power supply units



only for illustration

### Technical data

#### Ex-protected portable power supply unit EXKO 233201 A0007

Marking accd. to 94/9/EC	Ex II 2 G Ex de IIC T4
EC-Type Examination Certificate	PTB 99 ATEX 1044
Permissible ambient temperature	-20°C up to +40°C
Rated voltage	110/24 V transformer, 500 VA
Rated current	16 A
Frequency	50 Hz
Back-up fuse external	25A gL / gG
Protection class	I
Degree of protection accd. to EN 60529	IP65
Cable entry	1 x M25 Trumpet shaped cable gland, 1 x M12 cable gland plastic
Enclosure material	glass-fibre reinforced polyester (option sheet steel, painted or stainless steel AISI 316L) Wall socket: glass-fibre reinforced polyester, plug: polyamide
Dimensions (H x W x D)	Metal frame stainless steel squared 20 x 20 x 2 with wheels 1062 x 774 x 336 mm
Weight	44 kg
Enclosure colour	black

### Ordering details

Design	Components external	Order No.
1x MCB S202P - K6A, 10kA 2x MCB S202M - C16A, 10kA 1x transformer 110/24V 550VA	1x Flange socket 16A 3-pole, 110V (GHG5118304R0001) 2x Flange socket 16A 2polig, 24V (GHG5420007R0004) actuating flap for components	EXKO 233201 A0007

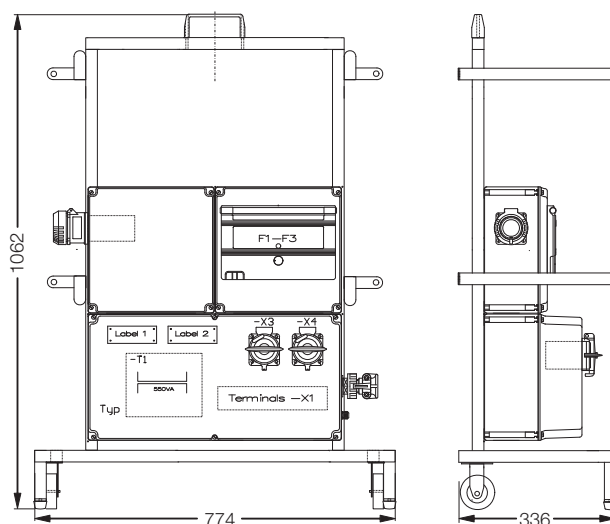
Option:

Padlock facility for enclosure cover

Enclosure material stainless steel AISI 316L

Customized solution for connection cable, plugs & sockets and rated voltage

### Dimension drawing



Dimensions in mm



only for illustration

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## Technical data

### Ex-protected portable power supply unit EXKO 233201 A0014

Marking accd. to 94/9/EC	Ex II 2 G Ex de IIC T4
EC-Type Examination Certificate	PTB 99 ATEX 1044
Permissible ambient temperature	-20°C up to +40°C
Rated voltage	230/42 V transformer, 550 VA
Rated current	16 A
Frequency	50 - 60 Hz
Back-up fuse external	16 A gL / gG
Protection class	I
Degree of protection accd. to EN 60529	IP65
Cable entry	1x M25 Trumpet shaped cable gland, 1x M12 cable gland plastic
Connecting cable	H07RN-F 3 x 1.5 mm <sup>2</sup> with plug 16A, 3 m
Enclosure material	glass-fibre reinforced polyester (option sheet steel, painted or stainless steel AISI 316L) Wall socket: glass-fibre reinforced polyester, plug: polyamide
Dimensions (H x W x D)	Metal frame stainless steel squared 20 x 20 x 2 with wheels 1062 x 500 x 336 mm
Weight	40 kg
Enclosure colour	black

## Ordering details

Design	Components external	Order No.
1x MCB S202P - K3A, 10kA 1x MCB S202M - C10A, 10kA 1x transformer 230/42V 550VA	2 x Flange socket 16 A 2-pole, 42 V (GHG5420007R0002) 1 x Plug 16 A 3-pole, 230 V 06 h (GHG5117306R0001) actuating flap for components	EXKO 233201 A0014

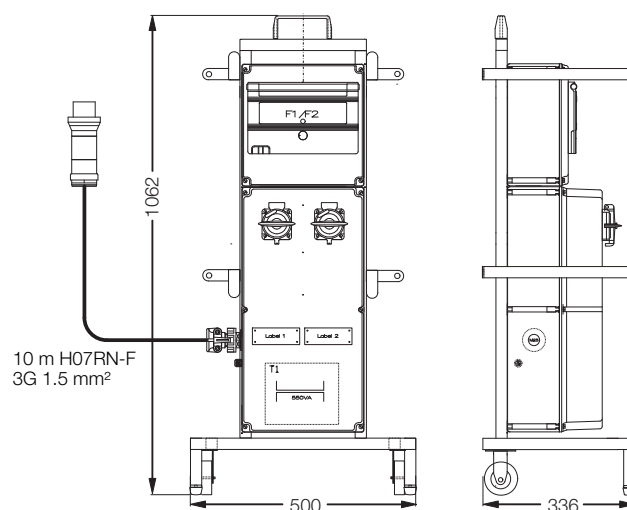
Option:

Padlock facility for enclosure cover

Enclosure material stainless steel AISI 316L

Customized solution for connection cable, plugs & sockets and rated voltage

## Dimension drawing



Dimensions in mm

## Ex-protected portable power supply units



EXKO 233201 A0019

### Technical data

#### Ex-protected portable power supply unit EXKO 233201 A0019

Marking accd. to 94/9/EC	Ex II 2 G Ex de IIC T4
EC-Type Examination Certificate	PTB 99 ATEX 1044
Permissible ambient temperature	-20°C up to +55°C
Rated voltage	240/42 V transformer, 400 VA
Rated current	16 A
Frequency	50 Hz
Back-up fuse external	16 A gL / gG
Protection class	I
Degree of protection accd. to EN 60529	IP65
Cable entry	1x M32 Trumpet shaped cable gland, 1x M12 cable gland plastic
Enclosure material	Sheet steel (option stainless steel AISI 316L) Wall socket: glass-fibre reinforced polyester, plug: polyamide
Dimensions (H x W x D)	Metal frame stainless steel squared 20 x 20 x 2 with wheels 1064 x 612 x 336 mm
Weight	38 kg
Enclosure colour	RAL 7032

### Ordering details

Design	Components external	Order No.
1x MCB S202M - K16A, 10kA 1x Ex-d Sicherung 2x T 2A 1x transformer 240/24V 400VA	4x Flange socket 16A 3-pole, 24V (GHG5425300V0000) 4x Plug 16A 3-pole, 24V (GHG5422300V0000) actuating flap for components	EXKO 233201 A0019

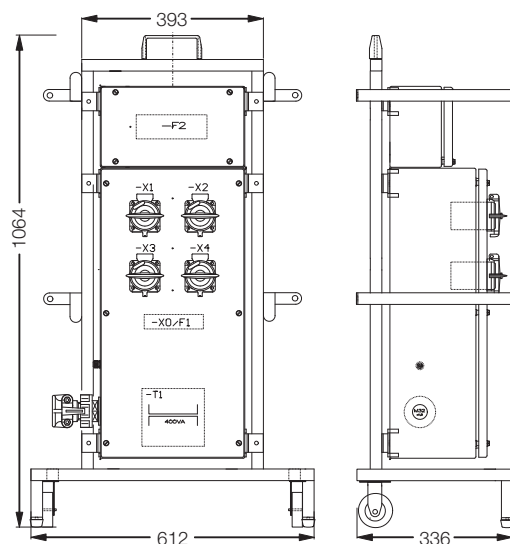
Option:

Padlock facility for enclosure cover

Enclosure material stainless steel AISI 316L

Customized solution for connection cable, plugs & sockets and rated voltage

### Dimension drawing



Dimensions in mm



EXKO 233201 A0021

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## Technical data

### Ex-protected portable power supply unit EXKO 233201 A0021

Marking accd. to 94/9/EC	Ex II 2 G Ex de IIC T4 / Ex II 2 D IP65 T95°C
EC-Type Examination Certificate	PTB 99 ATEX 1044
Permissible ambient temperature	-20 °C to +40 °C
Rated voltage	207 V / 120 V
Rated current	32 A
Frequency	50 Hz
Back-up fuse external	63 A gL / gG
Protection class	I
Degree of protection accd. to EN 60529	IP65
Cable entry	1x M40 Trumpet shaped cable gland, 1x M12 cable gland plastic
Connecting cable	H07RN-F 5 x 10 mm <sup>2</sup> without plug, 10 m
Enclosure material	Plastic, metal plate AISI 304L
	Wall socket: glass-fibre reinforced polyester, plug: polyamide
Dimensions (H x W x D)	Metal frame 378 x 594 x 213 mm
Weight	25 kg
Enclosure colour	black

## Ordering details

Design	Components external	Order No.
1x MCB S202M - C32A, 10kA 3x Fi-LS DS971 - C16A 0.03A, 6kA	3x Wall socket 16A 3-pole, 120V (04h ) (GHG5118304R0001) actuating flap for components	EXKO 233201 A0021

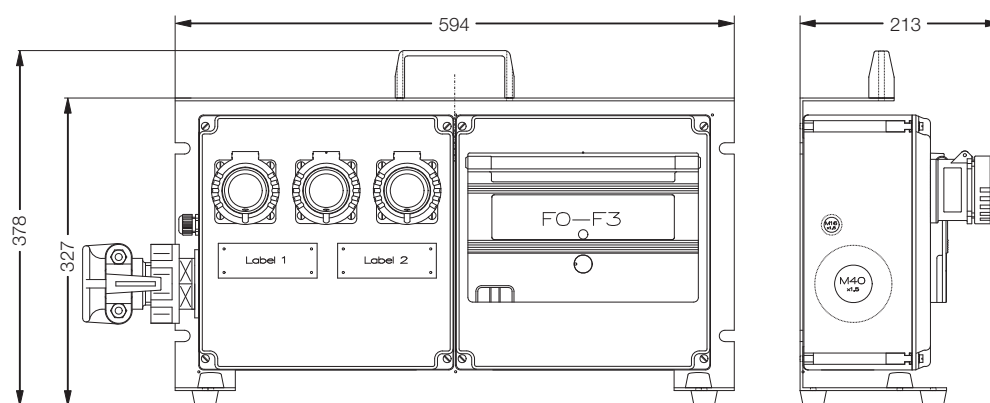
Option:

Padlock facility for enclosure cover

Enclosure material stainless steel AISI 316L

Customized solution for connection cable, plugs & sockets and rated voltage

## Dimension drawing



Dimensions in mm

## Ex-protected portable power supply units



only for illustration

### Technical data

#### Ex-protected portable power supply unit EXKO 233201 A0025

Marking accd. to 94/9/EC	Ex II 2 G Ex de IIC T4
EC-Type Examination Certificate	PTB 99 ATEX 1057
Permissible ambient temperature	-20 °C to +40 °C
Rated voltage	230/24 V transformer, 400 VA
Rated current	16 A
Frequency	50 Hz
Back-up fuse external	16 A gL / gG
Protection class	I
Degree of protection accd. to EN 60529	IP65
Cable entry	1x M25 Trumpet shaped cable gland, 1 x M12 cable gland plastic
connecting cable	H07RN-F 3 x 2.5 mm² with plug 16 A, 3 m
Enclosure material	Ex-d enclosure: die-cast aluminium, connection box: stainless steel AISI 316L Wall socket: glass-fibre reinforced polyester, plug: polyamide
Dimensions (H x W x D)	Metal frame stainless steel squared 20 x 20 x 2 including lockable wheels 936 x 720 x 369 mm
Weight	62 kg
Enclosure colour	RAL 7032

### Ordering details

Design	Components external	Order No.
1x MCB S202M - C10A, 10kA 1x MCB S202M - C13A, 10kA 1x power supply 230V AC / 24V DC 20A	1x Plug 16A 3-pole, 230V (06h) (GHG5117306R0001) 4x Wall socket 16A 3-pole, 24V (01h ) (GHG5118301R0001) actuating flap for components	EXKO 233201 A0025

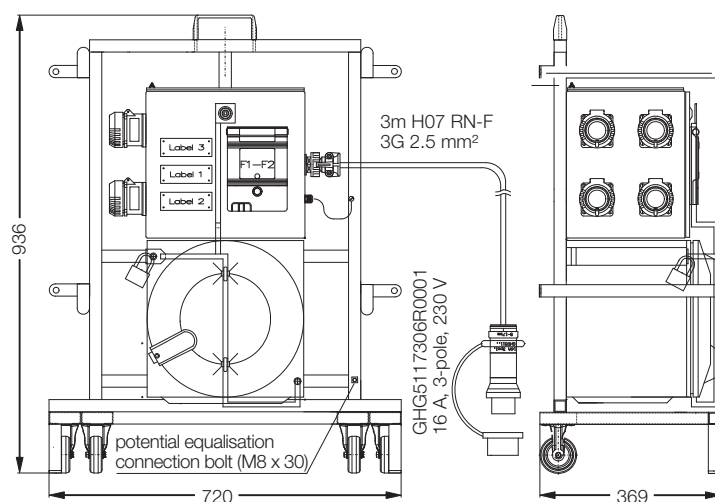
Option:

Padlock facility for enclosure cover

Enclosure material stainless steel AISI 316L

Customized solution for connection cable, plugs & sockets and rated voltage

### Dimension drawing



Dimensions in mm