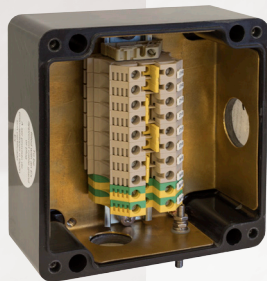
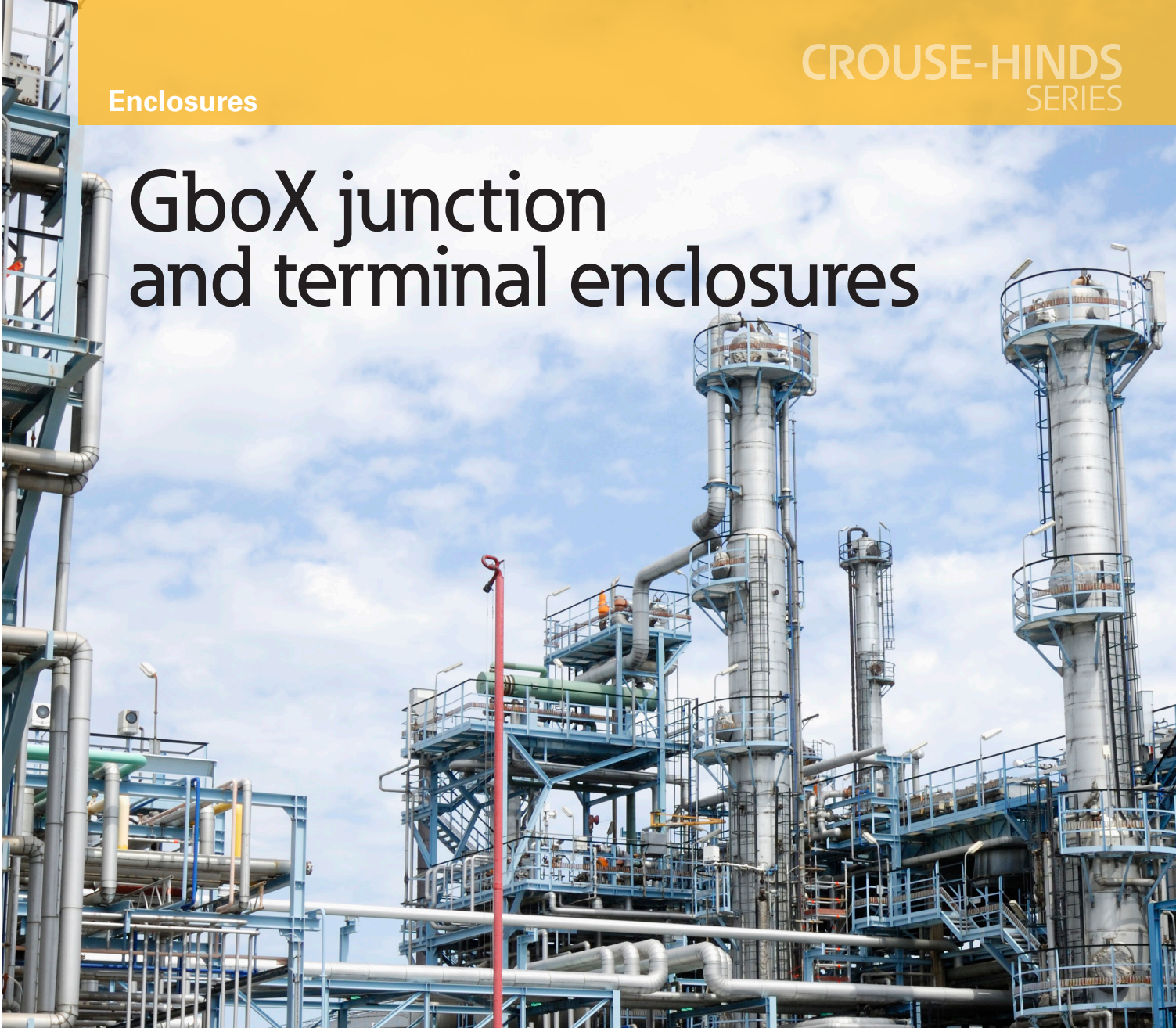


GboX junction and terminal enclosures



Powering Business Worldwide



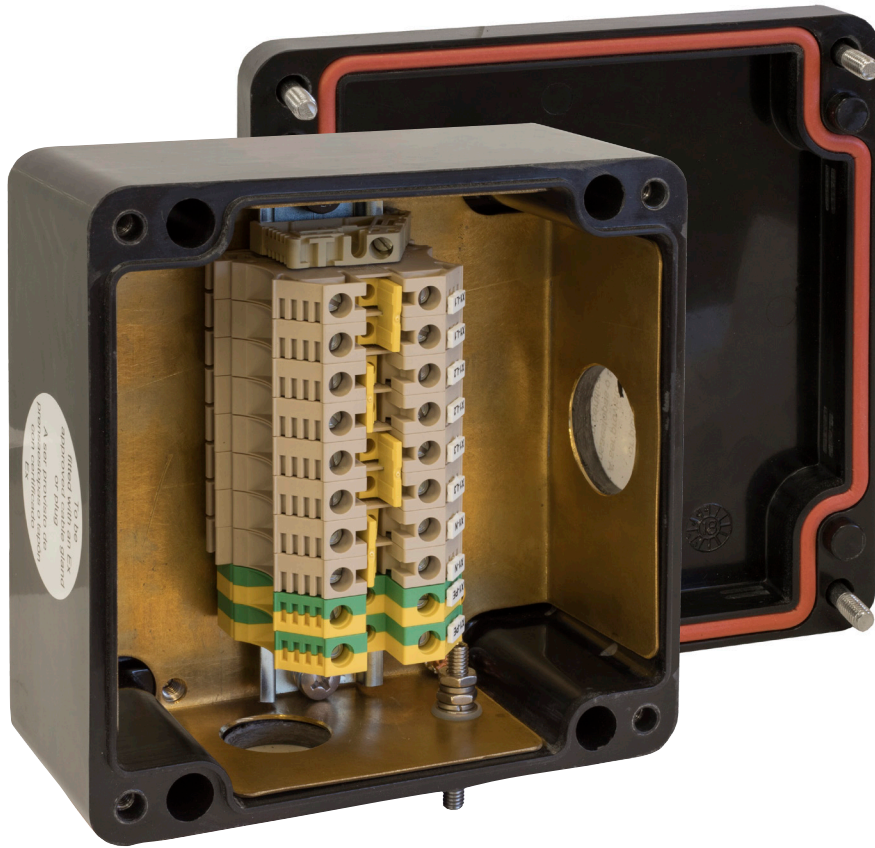
GboX enclosures for hazardous rated areas

High quality. Maintenance free. Robust construction.

Eaton's Crouse-Hinds series GboX junction and terminal enclosures are a glass-reinforced polyester (GRP) terminal box solution designed for use with metallic cable glands, cable entries on multiple sides/faces, and with industry standard sizes to match common end-user specifications.

In the oil and gas industry, GboX enclosure solutions provide corrosion resistance, impact strength and ingress protection in harsh and hazardous areas.

GboX junction enclosures



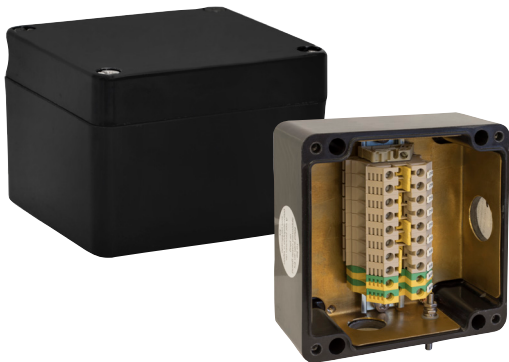
Heavy duty glass-reinforced polyester (GRP) construction:

- Corrosion resistant, anti-static surface



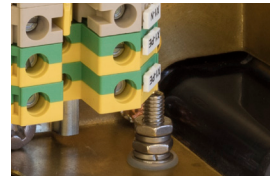
Built for harsh environments:

- IP 66 protection and superior impact resistance
- Stainless steel captive lid screws



Approved to the latest international standards:

- Certified as an empty enclosure and as factory assembled terminal boxes to ATEX, IECEx and EAC standards



Flexible earthing and built-in component options:

- Brass or galvanized steel earth plates, internal / external earth studs and wiring options



Rated for extreme temperatures:

- Silicone sealing for service temperatures from -50°C to +100°C

GboX empty enclosures



Applications:

- Manufactured to meet the most demanding harsh and hazardous area environmental applications
- A globally certified enclosure for Zones 1, 2, 21 and 22
- Certified to meet requirements for impact, thermal and IP66 ingress protection

Standards:

- IEC 60079- 0:2017 / EN IEC 60079 - 0:2018 general requirements
- IEC 60079- 7:2017 / EN IEC 60079 - 7:2015 + A1:2018 increased safety requirements "e"
- IEC 60079- 31:2013 / EN 60079 - 31:2014 protection by enclosure "t"

Certificates and markings (empty enclosure):

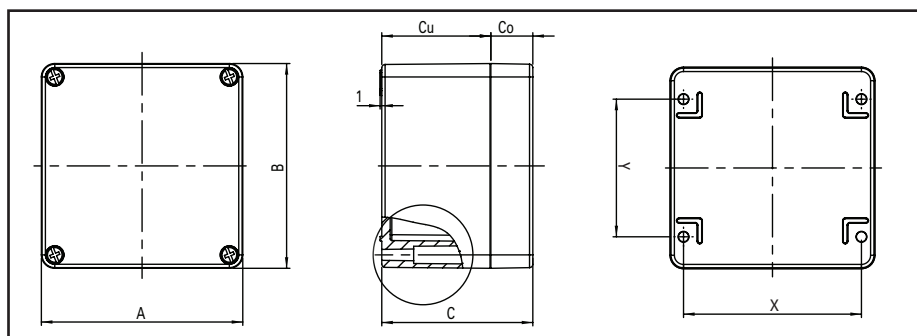
- IECEx TUR 18.0033U; TÜV 18 ATEX 8239U
- ATEX marking:
 ⓂII 2G Ex e IIC Gb
 ⓂII 2D Ex tb IIIC Db
- IECEx marking:
 Ex e IIC Gb
 Ex tb IIIC Db
- EAC Certificate - in process
- IP66 accd. IEC60529

Standard materials & finishes:

- Enclosure – GRP (glass reinforced polyester)
- Enclosure finish – AL9011/ black
- Gasket – silicone
- Lid screws – M4 / M6 captive screws (304 stainless steel)

Technical specifications:

- Service temperature: -50°C to +100°C
- UL94 flammability rating: self-extinguishing accd. UL94 V0
- Impact resistance: 7J accd. IEC 60079- 0
- Enclosure mounting: 4 holes for M4 to M6 screw
- Surface resistance: <math><10^9 \Omega</math>
- Halogen free (REACH and ROHS compliant)
- Fixing holes located outside of the lid sealing area
- Threaded internal holes for earth plate or rail mounting

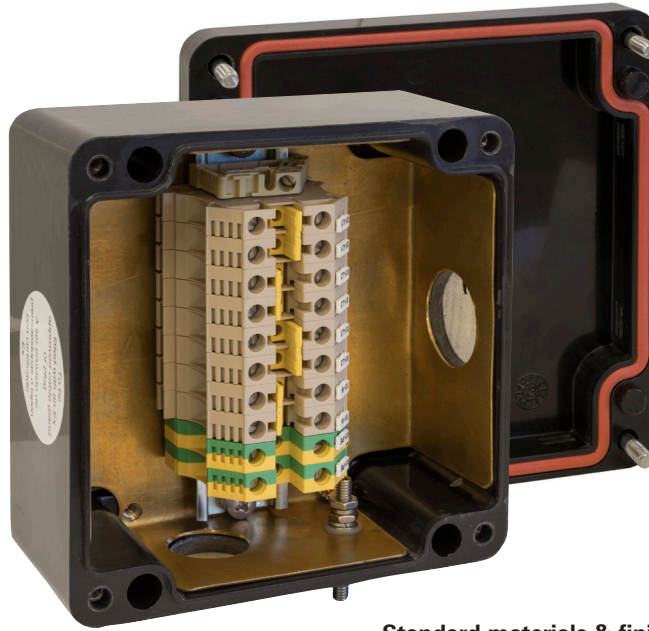


Dimensions

Dimensions (mm)

Cat. #	A	B	C	Cu	Co	X	Y	Weight (g)
GBXE121209	122	120	90	65	25	106	82	543.5
GBXE221209	220	120	90	65	25	204	82	811
GBXE161609	160	160	90	70	20	140	110	959
GBXE261609	260	160	90	70	20	240	110	1342
GBXE361609	360	160	90	70	20	340	110	1727
GBXE252512	255	250	120	95	25	235	200	2132
GBXE402512	400	250	120	95	25	380	200	2971
GBXE404012	400	405	120	95	25	380	355	4263

GboX terminal enclosures



Applications:

- Meets international standards for Zones 1, 2, 21 and 22
- Engineered to order with custom terminal and entry configuration
- Assembled at multiple Eaton's Crouse-Hinds Division global manufacturing facilities
- Certified with a wide variety of rail mount, wiring terminals, earth plate and earth stud options

Standards:

- IEC 60079- 0:2017 / EN IEC 60079 - 0:2018 general requirements
- IEC 60079- 7:2017 / EN IEC 60079 - 7:2015 + A1:2018 increased safety requirements "e"
- IEC 60079- 31:2013 / EN 60079 - 31:2014 protection by enclosure "t"

Certificates and markings:

- IECEx BVS 18.0065X; BVS 18 ATEX E 077X
- ATEX marking:
 ⓂII 2G Ex eb IIC T6/T5/T4* Gb
 ⓂII 2D Ex tb IIIC T80°C/T95°C/T100°C* Db
- IECEx marking:
 Ex eb IIC T6/T5/T4* Gb
 Ex tb IIIC T80°C /T95°C/T100°C* Db
- EAC certificate - in process
- IP66 accd.IEC60529

Standard materials & finishes:

- Enclosure – GRP (glass reinforced polyester)
- Enclosure finish – AL9011/ black
- Gasket – silicone
- Lid screws – M4 / M6 captive screws (304 stainless steel)
- Enclosure mounting – 4 holes for M4 to M6 screw
- Surface resistance – <math><10^9 \Omega</math>

Technical specifications:

- Ambient temperatures:
 -50°C up to +40°C T6/+55°C T5/+70°C T4
- Internal/external earth stud: M4, M6, M8, M10 in brass or stainless steel
- Internal continuity plate: 1.2mm thick brass or 1.5mm thick galvanized steel (in process)
- Built-in terminal options including the UK series, UT series, WDU/WPE series and others†
- Intrinsically safe circuits according to IEC/EN 60079-11

Electrical ratings:

- Rated operating voltage (Ue): 690V - 50/60Hz
- Rated operating current (Ie): max 200A
- Max cross section for terminals: up to 95mm²

Terminal capacity

Cat. #	Usable rail length (mm)	Maximum physical terminal capacity (qty)									
		Cross section (mm ²)									
		2.5	4	6	10	16	25	35	50	70	95
GBX121209	80	15	13	10	-	-	-	-	-	-	-
GBX221209	178	34	28	21	-	-	-	-	-	-	-
GBX161609	114	22	18	14	11	-	-	-	-	-	-
GBX261609	214	41	34	26	21	-	-	-	-	-	-
GBX361609	314	60	50	38	31	-	-	-	-	-	-
GBX252512	2 x 208	2 x 40	2 x 33	2 x 25	20	17	13	13	-	-	-
GBX402512	2 x 354	2 x 68	2 x 57	2 x 43	34	29	22	22	17	17	-
GBX404012	3 x 354	3 x 68	3 x 57	3 x 43	3 x 34	29	22	22	17	17	14

*Values of temperature class and surface temperature dependant on ambient temperature and built-in components.

†Consult Eaton's Crouse-Hinds for details.

Note: Reference load tables for maximum number of wires and continuous current ratings.

GboX terminal enclosures technical data

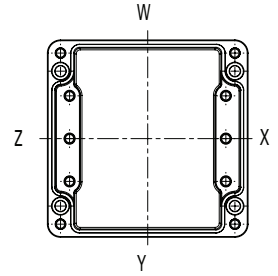
GBX 121209

Dimensions: 122 x 120 x 90mm

Usable rail length (mm)	80						
Conductor Size (mm ²)	1.5	2.5	4	6	10	16	25
Max. terminal fit (qty/rail)	19	15	13	10			
Qty of rails	1	1	1	1			
Maximum number of wires* according to Current (A)	3						
	6	43					
	10	14	28				
	16	6	16	32			
	20	6	7	18	35		
	25			5	13		
	35				2		
	50						
	63						

Maximum number of cable glands

Size	Metal gland [†]		Plastic gland [*]	
	W/Y side	X/Z side	W/Y side	X/Z side
12	6	4	8	4
16	4	3	4	3
20	2	2	3	2
25	2	1	2	1
32	1	1	1	1
40				
50				
63				



[†]For metallic cable glands Capri Type ADE for Ex-e, through-hole with locknut and earth plate.
^{*}For plastic cable glands CEAG Type GHG96 with threaded hole and no earth plate.

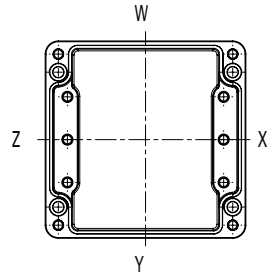
GBX 221209

Dimensions: 220 x 120 x 90mm

Usable rail length (mm)	178						
Conductor Size (mm ²)	1.5	2.5	4	6	10	16	25
Max. terminal fit (qty/rail)	42	34	28	21			
Qty of rails	1	1	1	1			
Maximum number of wires* according to Current (A)	3						
	6	45					
	10	15	30				
	16	6	17	34			
	20	6	8	19	37		
	25			5	14	36	
	35				2	11	30
	50					4	14
	63						5

Maximum number of cable glands

Size	Metal gland [†]		Plastic gland [*]	
	W/Y side	X/Z side	W/Y side	X/Z side
12	14	4	14	4
16	12	3	12	3
20	6	2	8	2
25	4	1	5	1
32	3	1	3	1
40	—	—	3	—
50				
63				



[†]For metallic cable glands Capri Type ADE for Ex-e, through-hole with locknut and earth plate.
^{*}For plastic cable glands CEAG Type GHG96 with threaded hole and no earth plate.

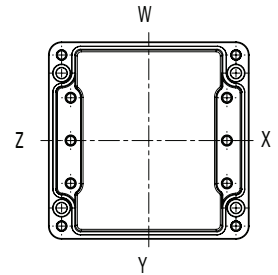
GBX 161609

Dimensions: 160 x 160 x 90mm

Usable rail length (mm)	114						
Conductor Size (mm ²)	1.5	2.5	4	6	10	16	25
Max. terminal fit (qty/rail)	27	22	18	14	11	9	
Qty of rails	1	1	1	1	1	1	
Maximum number of wires* according to Current (A)	3						
	6	48					
	10	16	32				
	16	6	18	36			
	20	6	9	20	39		
	25			6	15	38	
	35				2	12	31
	50					4	14
	63						5

Maximum number of cable glands

Size	Metal gland [†]		Plastic gland [*]	
	W/Y side	X/Z side	W/Y side	X/Z side
12	10	8	11	6
16	8	4	8	4
20	4	3	6	4
25	3	2	4	3
32	2	1	2	1
40	—	—	1	1
50				
63				



[†]For metallic cable glands Capri Type ADE for Ex-e, through-hole with locknut and earth plate.
^{*}For plastic cable glands CEAG Type GHG96 with threaded hole and no earth plate.

*Number of conductors/wires is the sum of all internal conductors and internal wire connections, bridge lines and earth excluded.

■ = Up to max terminal fit quantity

■ = Engineer-to-order only by Eaton (with heat rise calculation)

GboX terminal enclosures technical data

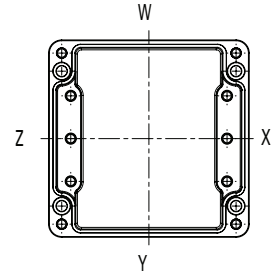
GBX 261609

Dimensions: 260 x 160 x 90mm

Usable rail length (mm)	214						
Conductor Size (mm ²)	1.5	2.5	4	6	10	16	25
Max. terminal fit (qty/rail)	51	41	34	26	21	18	
Qty of rails	1	1	1	1	1	1	
Maximum number of wires* according to Current (A)	3						
	6	52					
	10	18	34				
	16	7	20	39			
	20		9	22	42		
	25			6	16	41	
	35				2	13	34
	50					4	16
	63						6

Maximum number of cable glands

Size	Metal gland [†]		Plastic gland [*]	
	W/Y side	X/Z side	W/Y side	X/Z side
12	18	8	20	6
16	14	4	16	4
20	8	3	10	4
25	5	2	8	3
32	4	1	4	1
40	—	—	3	1
50				
63				



[†]For metallic cable glands Capri Type ADE for Ex-e, through-hole with locknut and earth plate.

^{*}For plastic cable glands CEAG Type GHG96 with threaded hole and no earth plate.

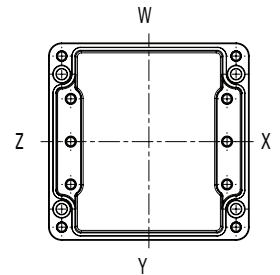
GBX 361609

Dimensions: 360 x 160 x 90mm

Usable rail length (mm)	314						
Conductor Size (mm ²)	1.5	2.5	4	6	10	16	25
Max. terminal fit (qty/rail)	75	60	50	38	31	26	
Qty of rails	1	1	1	1	1	1	
Maximum number of wires* according to Current (A)	3						
	6	53					
	10	18	35				
	16	7	20	40			
	20		9	22	43		
	25			6	17	42	
	35				2	13	35
	50					4	16
	63						6

Maximum number of cable glands

Size	Metal gland [†]		Plastic gland [*]	
	W/Y side	X/Z side	W/Y side	X/Z side
12	20	8	24	6
16	20	4	20	4
20	12	3	18	4
25	8	2	12	3
32	6	1	6	1
40	—	—	4	1
50				
63				



[†]For metallic cable glands Capri Type ADE for Ex-e, through-hole with locknut and earth plate.

^{*}For plastic cable glands CEAG Type GHG96 with threaded hole and no earth plate.

*Number of conductors/wires is the sum of all internal conductors and internal wire connections, bridge lines and earth excluded.

■ = Up to max terminal fit quantity

■ = Engineer-to-order only by Eaton (with heat rise calculation)

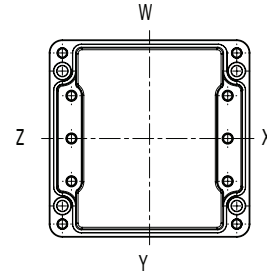
GboX terminal enclosures technical data

GBX 252512

Dimensions: 255 x 250 x 120mm

Usable rail length (mm)	208									
Conductor Size (mm ²)	1.5	2.5	4	6	10	16	25	35	50	
Max. terminal fit (qty/rail)	50	40	33	25	20	17	13	13		
Qty of rails	2	2	2	2	1	1	1	1		
Maximum number of wires* according to Current (A)	3									
	6	70								
	10	24	46							
	16	10	27	52						
	20		13	29	57					
	25			8	22	55				
	35				3	18	46			
	50					6	21	76		
	63						8	23	85	
	80							10	22	
	100								9	
125										

Maximum number of cable glands



Size	Metal gland†		Plastic gland*	
	W/Y side	X/Z side	W/Y side	X/Z side
12	30	26	30	28
16	21	18	24	22
20	14	11	16	12
25	10	8	10	9
32	5	4	7	6
40	3	2	3	3
50	—	—	2	1
63				

†For metallic cable glands Capri Type ADE for Ex-e, through-hole with locknut and earth plate.

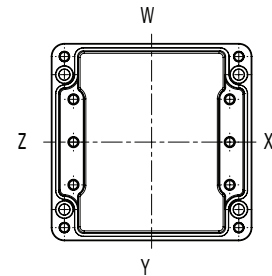
*For plastic cable glands CEAG Type GHG96 with threaded hole and no earth plate.

GBX 402512

Dimensions: 400 x 250 x 120mm

Usable rail length (mm)	354										
Conductor Size (mm ²)	1.5	2.5	4	6	10	16	25	35	50	70	90
Max. terminal fit (qty/rail)	84	68	57	43	34	29	22	22	17	17	
Qty of rails	2	2	2	2	1	1	1	1	1	1	
Maximum number of wires* according to Current (A)	3										
	6	76									
	10	26	50								
	16	10	29	57							
	20		15	32	62						
	25			9	24	60					
	35				3	19	50				
	50					6	23	82			
	63						9	25	92		
	80							11	24		
	100								9	24	
	125									8	21
	160										7
	200										3
225											

Maximum number of cable glands



Size	Metal gland†		Plastic gland*	
	W/Y side	X/Z side	W/Y side	X/Z side
12	42	26	42	28
16	30	18	30	22
20	20	11	20	12
25	16	8	16	9
32	9	4	10	9
40	5	2	5	3
50	—	—	4	3
63				

†For metallic cable glands Capri Type ADE for Ex-e, through-hole with locknut and earth plate.

*For plastic cable glands CEAG Type GHG96 with threaded hole and no earth plate.

*Number of conductors/wires is the sum of all internal conductors and internal wire connections, bridge lines and earth excluded.

■ = Up to max terminal fit quantity

■ = Engineer-to-order only by Eaton (with heat rise calculation)

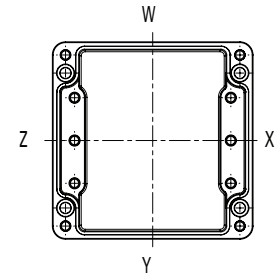
GboX terminal enclosures technical data

GBX 404012

Dimensions: 400 x 405 x 120mm

Maximum number of cable glands

Usable rail length (mm)	354											
Conductor Size (mm ²)	1.5	2.5	4	6	10	16	25	35	50	70	95	
Max. terminal fit (qty/rail)	84	68	57	43	34	29	22	22	17	17	14	
Qty of rails	3	3	3	3	3	1	1	1	1	1	1	
Maximum number of wires* according to Current (A)	3											
	6	91										
	10	31	61									
	16	13	35	236								
	20		17	68	75							
	25			39	29	72						
	35			11	4	23	60					
	50					8	28	99				
	63						10	31	111			
	80							13	29			
	100								11	29		
	125									10	26	
	160										9	22
	200											3
	225											
250												



Size	Metal gland†		Plastic gland*	
	W/Y side	X/Z side	W/Y side	X/Z side
12	42	36	42	36
16	30	30	30	30
20	20	18	20	18
25	15	14	16	14
32	9	8	10	8
40	5	5	5	5
50	—	—	4	4
63				

†For metallic cable glands Capri Type ADE for Ex-e, through-hole with locknut and earth plate.
*For plastic cable glands CEAG Type GHG96 with threaded hole and no earth plate.

*Number of conductors/wires is the sum of all internal conductors and internal wire connections, bridge lines and earth excluded.

■ = Up to max terminal fit quantity

■ = Engineer-to-order only by Eaton (with heat rise calculation)

Maximum permissible power loss depending on temperature class and ambient temperature

Perm. ambient temperature	Power dissipation at temperature class								
	T6			T5			T4		
	40°C	55°C	70°C	40°C	55°C	70°C	40°C	55°C	70°C
GBX 121209	6,8 W	4,2 W	1,7 W	9,3 W	6,8 W	4,2 W	10,2 W	7,6 W	5,1 W
GBX 221209	10,2 W	6,4 W	2,6 W	14,1 W	10,2 W	6,4 W	15,3 W	11,5 W	7,7 W
GBX 161609	9,7 W	6,1 W	2,4 W	13,3 W	9,7 W	6,1 W	14,6 W	10,9 W	7,3 W
GBX 262609	13,7 W	8,5 W	3,4 W	18,8 W	13,7 W	8,5 W	20,5 W	15,4 W	10,3 W
GBX 361609	17,6 W	11,0 W	4,4 W	24,3 W	17,6 W	11,0 W	26,5 W	19,8 W	13,2 W
GBX 252512	21,6 W	13,5 W	5,4 W	29,7 W	21,6 W	13,5 W	32,4 W	24,3 W	16,2 W
GBX 402512	29,9 W	18,7 W	7,5 W	41,1 W	29,9 W	18,7 W	44,8 W	33,6 W	22,4 W
GBX 404012	41,4 W	25,9 W	10,4 W	57,0 W	41,4 W	25,9 W	62,2 W	46,6 W	31,1 W

The values apply to wall mounting as a single unit (radiating surface = 4 side walls plus cover).

If the radiating surfaces are reduced due to obstacles, the maximum power dissipation should also be reduced.

Cable Glands

ADE-1F2

ADE-1F2 cable glands are designed to provide a flameproof and weatherproof seal on the outer sheath of non-armored, tray, marine shipboard or Type P cable. ADE glands are available in a wide range of corrosion-resistant materials to suit any harsh, industrial application.

Cable types:

- Non-armoured cable
- Marine shipboard cable; Type P cable
- Tray cable (armoured) cable



Standard materials:

- Nickel-plated brass for superior corrosion resistance
- 316L stainless steel, bronze and aluminum (optional); it is recommended that a suitable lubricant be used on all threads of stainless steel and aluminum versions



NPT thread size	Cat. # NPT	Metric thread size	Cat. # Metric	Cable sealing range		
				Min.	Max.	NPT max.
1/2"	ADE1N0500NPN	M20	ADE1M200NPN	2.8	5.5	
1/2"	ADE1N0501NPN	M20	ADE1M201NPN	4.5	8.5	
1/2"	ADE1N0502NPN	M20	ADE1M202NPN	7.0	12.0	
1/2"	ADE1N0503NPN	M20	ADE1M203NPN	10.0	16.0	15.5
3/4"	ADE1N0751NPN	M25	ADE1M251NPN	7.0	12.0	
3/4"	ADE1N0752NPN	M25	ADE1M252NPN	10.0	16.0	
3/4"	ADE1N0753NPN	M25	ADE1M253NPN	13.5	20.5	
1"	ADE1N1003NPN	M32	ADE1M323NPN	18.0	27.5	26.0

Catalog numbers are for nickel-plated brass; refer to the cable glands catalog online for other material options.
Dimensions shown in millimeters.

Certifications and compliances:



Ingress protection (IP):

- IP66/IP68 according to the method of attachment and the condition of the equipment area. IP66 protection is achieved through thread-to-thread engagement. Additional protection up to IP68 can be achieved through the addition of sealing washer or thread sealant.
- NEMA 4X

Operating temperature:

- -60°C to +140°C

ADE-4F

Cable types:

- Steel wire armored cable (SWA)
- Steel wire braided cable (SWB)
- Steel tape armored cable (STA)
- Braided marine shipboard cable; Type P cable
- Lead sheathed cable (with addition of earthing washer)



Standard materials:

- Nickel-plated brass for superior corrosion resistance
- 316L stainless steel, bronze and aluminum (optional); it is recommended that a suitable lubricant be used on all threads of stainless steel and aluminum versions



NPT thread size	Cat. # NPT	Metric thread size	Cat. # Metric	Cable sealing range inner sheath		Cable sealing range outer sheath		Armor	
				Min.	Max.	Min.	Max.	Min.	Max.
1/2"	ADE4N0500NPN	M20	ADE4M200NPN	2.8	5.5	4.5	8.5	0.2	0.9
1/2"	ADE4N0501NPN	M20	ADE4M201NPN	4.5	8.0	7.0	12.0	0.2	0.9
1/2"	ADE4N0502NPN	M20	ADE4M202NPN	7.0	12.0	10.0	16.0	0.2	1.3
1/2"	ADE4N0503NPN	M20	ADE4M203NPN	10.0	15.5	13.5	21.0	0.2	1.3
3/4"	ADE4N0751NPN	M25	ADE4M251NPN	7.0	12.0	10.0	16.0	0.2	1.3
3/4"	ADE4N0752NPN	M25	ADE4M252NPN	10.0	15.5	13.5	21.0	0.2	1.3
3/4"	ADE4N0753NPN	M25	ADE4M253NPN	13.5	20.5	18.0	27.5	0.2	1.6
1"	ADE4N1002NPN	M32	ADE4M322NPN	13.5	21.0	18.0	27.5	0.2	1.6
1"	ADE4N1003NPN	M32	ADE4M323NPN	18.0	26.0	23.0	34.0	0.2	1.6

Catalog numbers are for nickel-plated brass; refer to the cable glands catalog online for other material options.
Dimensions shown in millimeters.

Certifications and compliances:



Ingress protection (IP):

- IP66/IP68 according to the method of attachment and the condition of the equipment area

Operating temperature:

- -60°C to +140°C

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