



- Flexible: Modular design and three sizes make customer-specific versions possible
- Lightweight enclosure made of glass fibre reinforced polyester resin (GRP), suitable for the marine industry and offshore applications

E4

MY R. STAHL 8040B



With the R. STAHL Series 8040 control device system, you can get a clear overview of the control devices. The three combinable sizes and the modular design offer flexibility. You can choose from one standard version and customised variants.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table									
Key-operated switch									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	Key-operated switch, Latching/latching	Contact element NC/NO	–	–	8040/1180X-08M01SA05	130902	450 g
	–	–	Key-operated switch, Latching/latching/latching	Contact element NO/NO	–	–	8040/1180X-08M03SA04	130822	450 g
LED illuminated pushbutton									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	LED illuminated pushbutton, All colours	Contact element NO / LED / NC	–	–	8040/1180X-35C06SA45	130828	400 g
LED illuminated pushbutton and selector switch with contact element 8082									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	LED illuminated pushbutton, Clear, With silicone seal	Contact element NO / LED / NC	–	–	Small handle, Latching/latching/latching, I-O-II (2x 60°), With silicone seal	Contact element NO/NO	8040/1280-K0273	244317	525 g

Selection Table

LED indicator lamp									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	Indicator lamp bezel, Clear	LED indicator lamp	–	–	8040/1180X-54C03SA70	130721	410 g
	–	–	Indicator lamp bezel, All colours	LED indicator lamp	–	–	8040/1180X-54C06SXXX	130890	350 g
LED indicator lamp (2x)									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	Indicator lamp bezel, Red, With silicone seal	LED indicator lamp	–	–	Indicator lamp bezel, Red, With silicone seal	LED indicator lamp	8040/1280X-54C01SA70-54C01SA70	223293	383 g
LED indicator lamp and pushbutton									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	Indicator lamp bezel, All colours	LED indicator lamp	–	–	Pushbutton, Red - "0"	Contact element NC/NO	8040/1280X-54C06SA70-01L08SA05	130852	460 g
LED indicator lamp and selector switch with control switch 8008									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	Indicator lamp bezel, Red, With silicone seal	LED indicator lamp	–	–	Large handle, 0-I, With silicone seal	Control switch 002	8040/1391-K0359	268151	467 g
LED indicator lamp and twin pushbutton									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	Indicator lamp bezel, All colours	LED indicator lamp	–	–	Twin pushbutton, Red "0", green "I"	Contact element NC/NO	8040/1280X-54C06SXXX-23D01SA05	130898	540 g
LED indicator lamp and two pushbuttons									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	Indicator lamp bezel, All colours	LED indicator lamp	Pushbutton, Green - "I"	Contact element NC/NO	Pushbutton, Red - "0"	Contact element NC/NO	8040/1380X-54C06SA70-01L13SA05-01L08SA05	130900	640 g
	Indicator lamp bezel, Clear	LED indicator lamp	Pushbutton, Green - "I"	Contact element NC/NO	Pushbutton, Red - "0"	Contact element NC/NO	8040/1380X-54C03SA70-01L13SA05-01L08SA05	130702	680 g

Selection Table

Product variant									
LED indicator lamp, twin pushbutton and mushroom stay-put button									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	Indicator lamp bezel, All colours	LED indicator lamp	Twin pushbutton, Red "0", green "I"	Contact element NC/NO	EM-ST.mush. stay-p.but.w.k.lock	Contact element NC/NO	8040/1380X-54C06SA70-23D01SA05-09XXXSA05	130903	750 g
Product variant									
Mushroom pushbutton									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	Mushroom pushbutton, Black - "I"	Contact element NC/NO	–	–	8040/1180X-03L24SA05	130813	400 g
Product variant									
Mushroom stay-put button									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	EM-STOP mush. stay-put button, Red – (rotating arrow)	Contact element NC	–	–	8040/1170X-10L07SA01	130740	406 g
	–	–	EM-STOP mush. stay-put button, Red – (rotating arrow), With silicone seal	Contact element NC/NO	–	–	8040/1198-K0257	241822	221 g
	–	–	EM-STOP mush. stay-put button, Red – (rotating arrow)	Contact element NC/NO	–	–	8040/1180X-10L07SA05	130679	400 g
	–	–	EM-STOP mush. stay-put button, Red – (rotating arrow), With silicone seal	Contact element NC / NC / NC	–	–	8040/1180X-10L07SA06	244092	383 g
	–	–	EM-STOP mush. stay-put button, Red – (rotating arrow)	Contact element NC / NO / NC	–	–	8040/1180X-10L07SA08	130819	410 g
	–	–	EM-STOP mushroom stay-put button 55, Red – (rotating arrow)	Contact element NC/NO	–	–	8040/1180X-15L07SA05	130816	400 g
Product variant									
Mushroom stay-put button with key lock									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	EM-STOP mushroom stay-put button with key lock	Contact element NC/NO	–	–	8040/1180X-09XXXSA05	130665	450 g
Product variant									
Pushbutton									
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	Pushbutton, Red "0", green "I"	Contact element NC/NO	–	–	8040/1180X-01L50SA05	130686	370 g

Selection Table

Product variant		Pushbutton (2x)							
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	Pushbutton, Green - "I"	Contact element NC/NO	–	–	Pushbutton, Red - "O"	Contact element NC/NO	8040/1280X-01L13SA05-01L08SA05	130692	460 g
Product variant		Pushbutton (3x)							
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	Pushbutton, Green - "I"	Contact element NC/NO	Pushbutton, Red - "O"	Contact element NC/NO	Pushbutton, Green - "II"	Contact element NC/NO	8040/1380X-01L13SA05-01L08SA05-01L15SA05	130861	580 g
		Contact element NO	Pushbutton, Red - "O"	Contact element NC	Pushbutton, Green - "II"	Contact element NO	8040/1380X-01L13SA02-01L08SA01-01L15SA02	130908	680 g
Product variant		Selector switch with contact element 8082							
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	Small handle, Latching/latching, 0/OFF-I/ON (1x 60°)	Contact element NC/NO	–	–	8040/1180X-26M01SA05	130834	420 g
	–	–	Small handle, Latching/latching/latching, I-O-II (2x 60°)	Contact element NO/NO	–	–	8040/1180X-26M03SA04	130837	420 g
Product variant		Selector switch with control switch 8008							
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	Small handle, 0/OFF-I/ON (1x 90°), With silicone seal	Control switch 002	–	–	8040/1178X-34H2SF01	244311	327 g
Product variant		Twin pushbutton							
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	Twin pushbutton, Red "O", green "I"	Contact element NC/NO	–	–	8040/1180X-23D01SA05	130825	400 g

Technical Data

Variant

Explosion Protection

IECEx gas explosion protection Ex db eb IIC T6 / T5 Gb

IECEx dust explosion protection Ex tb IIIC T80 °C / T95 °C Db

ATEX gas explosion protection Ⓔ II 2 G Ex db eb IIC T6 / T5 Gb

ATEX dust explosion protection Ⓔ II 2 D Ex tb IIIC T80 °C / T95 °C Db

Certificates ATEX (PTB), Brazil (ULB), Canada (UL), China (NEPSI), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (UL)

Notes Product label may vary. Series devices are labelled with ATEX and IECEx.

Technical Data	
Variant	
Electrical Data	
Rated operational voltage AC	550 V
Rated operational current	10 A (T6)
Ambient Conditions	
Ambient temperature	-60 °C ... +40 °C (T6) -60 °C ... +55 °C (T5)
Mechanical Data	
Degree of protection IP (IEC 60529)	IP66
Enclosure material	Polyester resin, Glass fibre reinforced
Seal	Silicone, foamed
Silicone-free	No
Cover fixing type	With captive screws, M4 stainless steel screws
Connection cross-section max.	2.5 mm ²
Notes	Actuator and screw connection with silicone as standard. Silicone-free only on request

Technical data – components for control devices Series 8040

Version	Series 8008 control switch			
	AC rated operational voltage	690 V		
	DC rated operational voltage	230 V		
	Utilisation category	AC-1	16 A	690 V
		AC-3	16 A	690 V (load disconnect switch 8008/2-6)
		AC-15	16 A	415 V
DC-1		10 A	220 V (three conducting paths in series)	
Service temperature	T6 at 16 A: -60 to +60 °C			

Version	Series 8082 contact element for installation on mounting rail			
	Rated operational voltage	max. 500 V		
Ambient temperature	-60 °C ... +70 °C (T6)			
Rated operating characteristics according to utilisation category	AC-12	10 A	250 V	
	7.5 A	400 V		
	5 A	550 V		
AC-15	10 A	110 V		
6 A	250 V			
4 A	400 V			
DC-13	6 A	60 V		
DC-13	2.5 A*	110 V		
1 A*	230 V			
* (two contact elements in series)				
Rated operational current	for gold-plated contacts	10 to 150 mA		
for silver-nickel contacts	> 150 mA			
Note: For offshore and corrosive environments, we recommend using contact elements from Series 8208				
Version	Series 8405 ammeter			
	Rated operational voltage	max. 500 V		
Ambient temperature	-40 °C ... +40 °C (IIC T6)			
-40 °C ... +55 °C (T5)				
-40 °C ... +70 °C (T4)				
Accuracy	Class 2.5			
Version	Series 8010 indicator lamp			
	Rated operational voltage	Ex e: 12 to 240 V, AC/DC (±10%) Ex i: 10.8 to 30 V DC		
Rated operational current I₀	Ex i: Max. 15 mA			
Rated operational power	max. 1 W			
Frequency range	0 to 60 Hz			

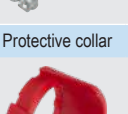
Accessories			
Figure	Description	Art. No.	Weight
Cylinder lock			
	for closing (bracket Ø 3)	107115	15 g
Illuminated pushbutton (spring return) BG735			
	Ø 39 mm Black All colours Silicone-free: No	244655	35 g
Indicator lamp bezel BG054			
	Diameter 39 mm All colours Silicone-free: No	223123	24 g
Key-operated switch actuator BG008			
	Ø 39 mm Black Closing: MS1 Number of switching positions: 2 Switching function: Latching / Latching Silicone-free: No	244574	50 g
	Ø 39 mm Black Closing: MS1 Number of switching positions: 3 Switching function: Latching / Latching / Latching Silicone-free: No	244633	50 g
Mushroom pushbutton, black BG003			
	Ø 39 mm Black Designation plate: Black, blank disc without text Silicone-free: No	244564	50 g
Mushroom stay-put button 55 mm EM-STOP BG015			
	Ø 55 mm Yellow/red Designation plate: With yellow backing plate Silicone-free: No	244637	55 g
Mushroom stay-put button EM-STOP BG010			
	Ø 39 mm Yellow/red Designation plate: With yellow backing plate Silicone-free: No	223698	50 g
Mushroom stay-put button with EM-STOP key BG009			
	Ø 39 mm Yellow/red Designation plate: With yellow backing plate Closing: MS1 Silicone-free: No	223694	75 g

Accessories

Figure	Description	Art. No.	Weight
Pushbutton BG001			
	Ø 39 mm Black Designation plate: Black, blank disc without text Silicone-free: No	223692	34 g
Rotary actuator, large BG731			
	8602C3-731-S-90X-E08 Ø 65 mm Handle colour: Black Protective collar colour: Black Designation plate: 0/OFF – I/ON Lockable in: 90° Not installed -60 °C ... +70 °C Silicone-free: No	227224	40 g
Rotary actuator, small, lockable ASSY734			
	Diameter 39 mm, Padlockable using 1 lock, 90° position Seal: Silicone, up to -60 °	227360	40 g
Small rotary actuator, not lockable BG726			
	Ø 39 mm Black Designation plate: I – 0 – II Number of switching positions: 3 Lockable in: Not padlockable Switching function: Latching / Latching / Latching Silicone-free: No	244649	40 g
Small rotary actuator, not lockable BG726			
	Ø 39 mm Black Designation plate: 0/OFF – I/ON Number of switching positions: 2 Lockable in: Not padlockable Switching function: Latching / Latching Silicone-free: No	244647	40 g
Spare key			
	Closing MS1	107109	8 g
Twin pushbutton BG023			
	Black Silicone-free: No	244639	45 g

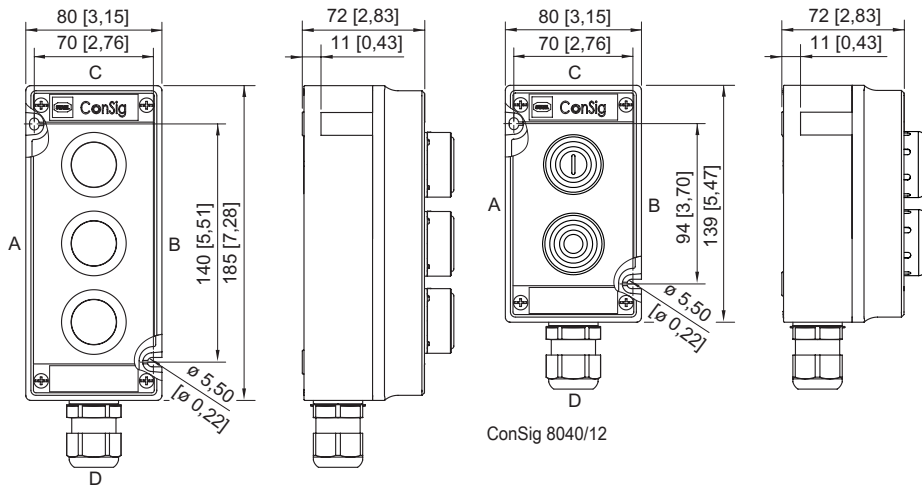
Spare Parts			
Figure	Description	Art. No.	Weight
Caps for BG054			
	for indicator lamp, all colours packaged	248685	3 g
Colour filter for BG 735			
	for illuminated pushbutton, all colours packaged	248684	1 g
Designation plate for pushbutton and selector switch			
	Red Text: O	227740	1 g
	Green Text: I	227750	1 g
Designation plates set for ASSY001, ASSY023			
	The button label set contains eight labels 5x blank disc without text in red, green, white, blue and yellow 1x red label, text: STOP 1x green label, text: START 1x blue label, text: RESET	321791	-
Label holder			
	Size 1, without insert disc, 1-line label for actuators Ø 39	223566	2 g
	Size 2, without insert disc, 1- or 2-line label for actuators Ø 39	223567	2 g
	Size 3, without insert disc, 1-, 2- or 3-line label for actuators Ø 39	223568	2 g
Label set for ASSY732			
	The label set contains two dia. 30.8 mm labels 1x label with text HAND-0-AUTO 1x label with text LOCAL-REMOTE	321792	-
Labels for large BG 728, BG 729, BG 730, BG 731 rotary actuator			
	Dia. 58 0 I	227009	2 g

Spare Parts

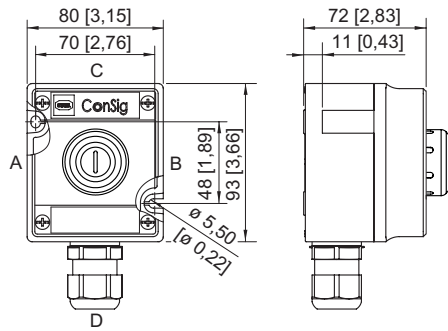
Figure	Description	Art. No.	Weight
Locking devices			
	8602C3-752 for actuated mushroom stay-put button BG010, BG012	244869	90 g
	8602C3-753 for not actuated pushbutton BG001	244870	90 g
	8602C3-758 for not actuated mushroom stay-put button BG010, BG012	244874	90 g
	8602C3-756 for actuated mushroom stay-put button BG010, BG012	244873	90 g
	8602C3-755 for not actuated pushbutton BG001	244872	90 g
	8602C3-754 for actuated pushbutton BG001	244871	90 g
Protective collar			
	8602C3-751 plastic/red for mushroom stay-put button with key lock/mushroom stay-put button dia. 39 BG006, BG009, BG010, BG012	257707	20 g
	8602C3-751 plastic/yellow for mushroom stay-put button with key lock/mushroom stay-put button dia. 39 BG006, BG009, BG010, BG012	257708	20 g
Special key			
	for tightening plastic locking nut	169101	30 g

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

E4



ConSig 8040/13



ConSig 8040/11



- Practical Ex e control boxes made of glass fibre reinforced polyester resin
- Can be equipped as required with control devices, indicator lamps, illuminated pushbuttons, control switches, ammeters and voltmeters
- Optional: Flanges, cover hinges, flange enclosures, brass plates, cable glands made of metal

E4

MY R. STAHL 8146F



R. STAHL Series 8146 control boxes are available in eight basic sizes and various enclosure heights; they can be combined to make larger units. They are made of high-quality glass fibre reinforced polyester resin. We equip these with various components according to customer requirements, whereby the following optional accessories are available: Flanges, cover hinges or cable glands made of metal.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Installation in				•		

	CE Code Section 18					
	NEC® 505 Class I			NEC® 506		
Zone	0	1	2	20	21	22
Installation in		•				

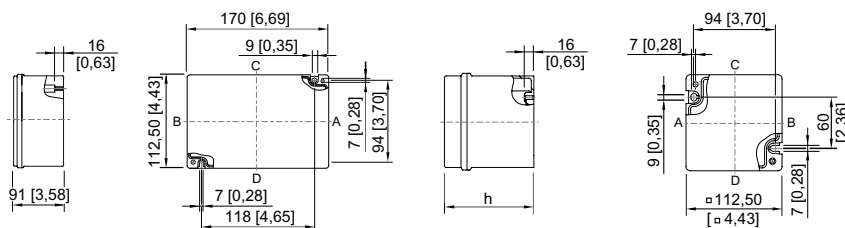
Selection Table								
Silicone-free Certificates			No ATEX (PTB), Brazil (ULB), Canada (FM), Canada (UL), China (NEPSI), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (FM), USA (UL)					
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Product Type	Art. No.	Weight
112.5 mm	4.429 in	112.5 mm	4.429 in	91 mm	3.583 in	8146/5031	136885	470 g
170 mm	6.692 in	112.5 mm	4.429 in	91 mm	3.583 in	8146/5041	136678	580 g
Silicone-free Certificates			No ATEX (PTB), Brazil (ULB), Canada (FM), China (NEPSI), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (FM)					
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Product Type	Art. No.	Weight
170 mm	6.692 in	170 mm	6.692 in	91 mm	3.583 in	8146/5051	136697	860 g
		170 mm	6.692 in	131 mm	5.157 in	8146/5052	136777	1.1 kg
227 mm	8.937 in	170 mm	6.692 in	91 mm	3.583 in	8146/5061	136703	1.15 kg
		170 mm	6.692 in	131 mm	5.157 in	8146/5062	136785	1.4 kg
		112.5 mm	4.429 in	91 mm	3.583 in	8146/5241	136964	740 g

Selection Table

Silicone-free Certificates			No ATEX (PTB), Brazil (ULB), Canada (FM), China (NEPSI), IECEx (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (FM)					
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Product Type	Art. No.	Weight
340.5 mm	13.406 in	170 mm	6.692 in	91 mm	3.583 in	8146/5071	136723	1.6 kg
		170 mm	6.692 in	131 mm	5.157 in	8146/5072	136817	1.95 kg
		170 mm	6.692 in	150 mm	5.906 in	8146/5073	136911	1.8 kg
		170 mm	6.692 in	190 mm	7.48 in	8146/5075	136942	2.3 kg
		340.5 mm	13.4060 in	91 mm	3.583 in	8146/5081	136746	2.95 kg
		340.5 mm	13.4060 in	131 mm	5.157 in	8146/5082	136824	3.45 kg
		340.5 mm	13.4060 in	150 mm	5.906 in	8146/5083	136924	3.4 kg
		340.5 mm	13.4060 in	190 mm	7.48 in	8146/5085	136947	3.9 kg
		340.5 mm	13.4060 in	230 mm	9.055 in	8146/5086	136955	4.2 kg
		170 mm	6.692 in	91 mm	3.583 in	8146/5S71	136730	1.6 kg
		170 mm	6.692 in	150 mm	5.906 in	8146/5S73	136918	1.8 kg
		681.5 mm	26.831 in	340.5 mm	13.4060 in	91 mm	3.583 in	8146/5091
340.5 mm	13.4060 in			131 mm	5.157 in	8146/5092	136846	6.3 kg
340.5 mm	13.4060 in			150 mm	5.906 in	8146/5093	136930	6.2 kg
340.5 mm	13.4060 in			190 mm	7.48 in	8146/5095	136952	6.9 kg
Silicone-free Certificates			No ATEX (PTB), Canada (UL), IECEx (PTB), USA (UL)					
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Product Type	Art. No.	Weight
170 mm	6.692 in	170 mm	6.692 in	91 mm	3.583 in	8146/5051-C2569	297641	2 kg
Silicone-free Certificates			No ATEX (PTB), IECEx (PTB)					
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Product Type	Art. No.	Weight
227 mm	8.937 in	170 mm	6.692 in	91 mm	3.583 in	8146/5061-C2179	262775	-
Silicone-free Certificates			Yes ATEX (PTB), Canada (FM), Canada (UL), China (NEPSI), IECEx (PTB), India (PESO), Korea (KGS), USA (FM), USA (UL)					
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Product Type	Art. No.	Weight
112.5 mm	4.429 in	112.5 mm	4.429 in	91 mm	3.583 in	8146/5031	225813	470 g
170 mm	6.692 in	112.5 mm	4.429 in	91 mm	3.583 in	8146/5041	225206	580 g
Silicone-free Certificates			Yes ATEX (PTB), Canada (FM), China (NEPSI), IECEx (PTB), India (PESO), Korea (KGS), USA (FM)					
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Product Type	Art. No.	Weight
170 mm	6.692 in	170 mm	6.692 in	91 mm	3.583 in	8146/5051	225802	860 g
227 mm	8.937 in	170 mm	6.692 in	91 mm	3.583 in	8146/5061	225803	1.15 kg
		112.5 mm	4.429 in	91 mm	3.583 in	8146/5241	225822	740 g
340.5 mm	13.406 in	170 mm	6.692 in	91 mm	3.583 in	8146/5071	225804	1.6 kg
		170 mm	6.692 in	131 mm	5.157 in	8146/5072	225810	1.95 kg
		340.5 mm	13.4060 in	91 mm	3.583 in	8146/5081	225806	2.95 kg
		340.5 mm	13.4060 in	131 mm	5.157 in	8146/5082	225811	3.45 kg
		340.5 mm	13.4060 in	150 mm	5.906 in	8146/5083	225816	3.4 kg
		170 mm	6.692 in	91 mm	3.583 in	8146/5S71	225805	1.6 kg
		170 mm	6.692 in	150 mm	5.906 in	8146/5S73	225815	1.8 kg
681.5 mm	26.831 in	340.5 mm	13.4060 in	91 mm	3.583 in	8146/5091	225807	5.6 kg

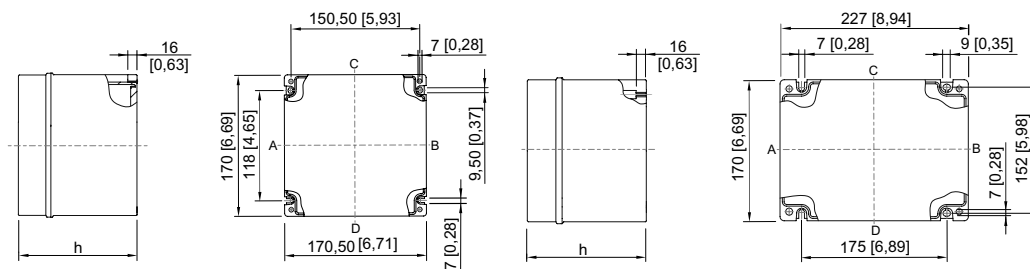
Technical Data		
Variant	not silicone-free	silicone-free
Explosion Protection		
Scope of validity	European Union (ATEX) IECEX	European Union (ATEX) IECEX
IECEX gas certificate	IECEX PTB 06.0090	IECEX PTB 06.0090
IECEX dust explosion protection	Ex tb IIIC T80 °C ... T130 °C Db	Ex tb IIIC T80 °C ... T130 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex eb IIC T6 ... T4 Gb	Ⓔ II 2 G Ex eb IIC T6 ... T4 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T80 °C ... T130 °C Db	Ⓔ II 2 D Ex tb IIIC T80 °C ... T130 °C Db
Notes	Product label may vary. Series devices are labelled with ATEX and IECEX.	
Electrical Data		
Rated operational voltage AC	0 ... 1000 V	0 ... 1000 V
Rated operational current	0 – 630 A	0 – 630 A
Notes	Depending on the built-in components.	Depending on the built-in components.
Ambient Conditions		
Ambient temperature	-60 °C ... +40 °C (T6) (T80 °C) -60 °C ... +55 °C (T5) (T95 °C) -60 °C ... +70 °C (T4) (T130 °C)	-20 °C ... +40 °C (T6) (T80 °C) -20 °C ... +55 °C (T5) (T95 °C) -20 °C ... +70 °C (T4) (T130 °C)
Ambient temperature	-76°F ... +104°F (T6) (T80 °C) -76°F ... +131°F (T5) (T95 °C) -76°F ... +158°F (T4) (T130 °C)	-4°F ... +104°F (T6) (T80 °C) -4°F ... +131°F (T5) (T95 °C) -4°F ... +158°F (T4) (T130 °C)
Mechanical Data		
Degree of protection IP (IEC 60529)	IP66	IP66
Enclosure material	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced
Cover fixing type	With captive screws	With captive screws
Cover thickness	2.8 mm	2.8 mm
Cover thickness inch	0.11 in	0.11 in
Wall thickness	2.8 mm	2.8 mm
Wall thickness, inches	0.11 in	0.11 in
Components		
Flange and plates	Without flange	Without flange

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



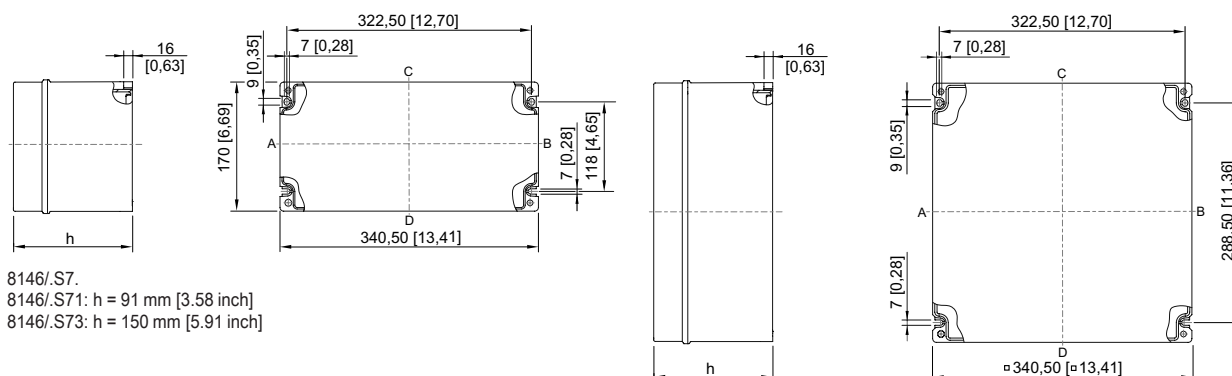
8146/.041

8146/.03.
8146/.031: h = 91 mm [3.58 inch]
8146/.037: h = 104 mm [4.09 inch]



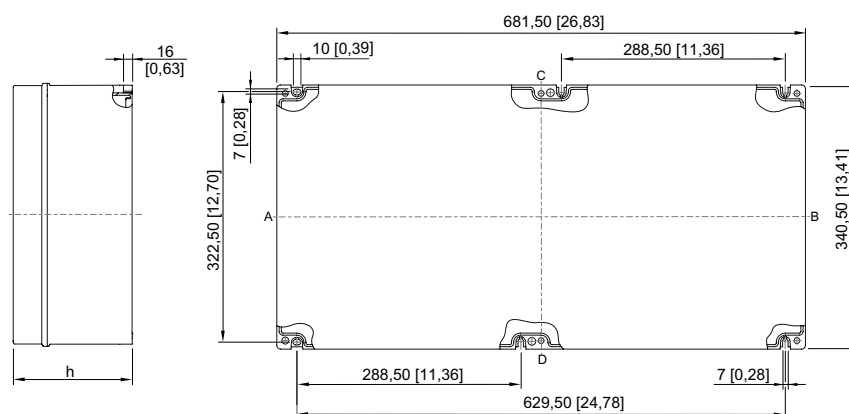
8146/.05.
8146/.051: h = 91 mm [3.58 inch]
8146/.052: h = 131 mm [5.16 inch]

8146/.06.
8146/.061: h = 91 mm [3.58 inch]
8146/.062: h = 131 mm [5.16 inch]



8146/.S7.
8146/.S71: h = 91 mm [3.58 inch]
8146/.S73: h = 150 mm [5.91 inch]

8146/.08.
8146/.081: h = 91 mm [3.58 inch]
8146/.082: h = 131 mm [5.16 inch]
8146/.083: h = 150 mm [5.91 inch]
8146/.084: h = 171 mm [6.73 inch]
8146/.085: h = 190 mm [7.48 inch]
8146/.086: h = 230 mm [9.06 inch]



8146/.09.
8146/.091: h = 91 mm [3.58 inch]
8146/.092: h = 131 mm [5.16 inch]
8146/.093: h = 150 mm [5.91 inch]
8146/.095: h = 190 mm [7.48 inch]



- Control stations with quadruple certification (NEC®, CE Code, ATEX, IECEx)
- Several assembly positions for effortless integration with existing wall mountings, which ensure compatibility with a wide range of products
- 316L stainless steel enclosure for excellent resistance to corrosion
- Offers a large number of pushbuttons, illuminated pushbuttons, control switches and LEDS for various configurations
- Customer-specific control stations are available upon request with various cable glands, contact options and additional certifications

E4

MY R. STAHL 8150P

R. STAHL's device control system in the Universal Mounting Series 8150/5-V40 uses explosion-protected components with enclosures made of 316L stainless steel for ultimate flexibility, safety and durability in hazardous and hostile environments. The integrated mounting plate offers various mounting options for simple installation.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Installation in		•		•		•

	CE Code Section 18 NEC® 505					
	Class I			NEC® 506		
Zone	0	1	2	20	21	22
Installation in		•				

Selection Table									
Product variant			2-pole control switch with switch insert 8008						
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	Large handle, 0/OFF-I/ON (1x 90°), With silicone seal	Control switch 002	–	–	8150/5-V40-12E0X-31102SF01	301293	2.4 kg
		–	Large handle, HAND-0-AUTO (2x 45°), With silicone seal	Control switch 027	–	–	8150/5-V40-12E0X-31106SF12	301294	2.4 kg
Product variant			Mushroom stay-put button						
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	–	–	EM-STOP mushroom stay-put button 55, Red – (rotating arrow), With silicone seal	Contact element NC/NC	–	–	8150/5-V40-12E0X-15L07SA03	301292	2.33 kg

Selection Table

Product variant		Pushbutton							
Figure	Installation position top	Built-in element top	Installation position middle	Built-in element middle	Installation position bottom	Built-in element bottom	Product Type	Art. No.	Weight
	Pushbutton, Green – "START", With silicone seal	Contact element NC/NO	–	–	Pushbutton, Red – "STOP", With silicone seal	Contact element NC/NO	8150/5-V40-12E0X-01L12SA05-01L09SA05	301295	2.29 kg
	Pushbutton, Green – "START", With silicone seal	Contact element NC/NO	–	–	Pushbutton, actuation lockable, Red – "STOP", With silicone seal	Contact element NC/NO	8150/5-V40-12E0Z-01L12SA05-01L	301296	2.39 kg

Technical Data

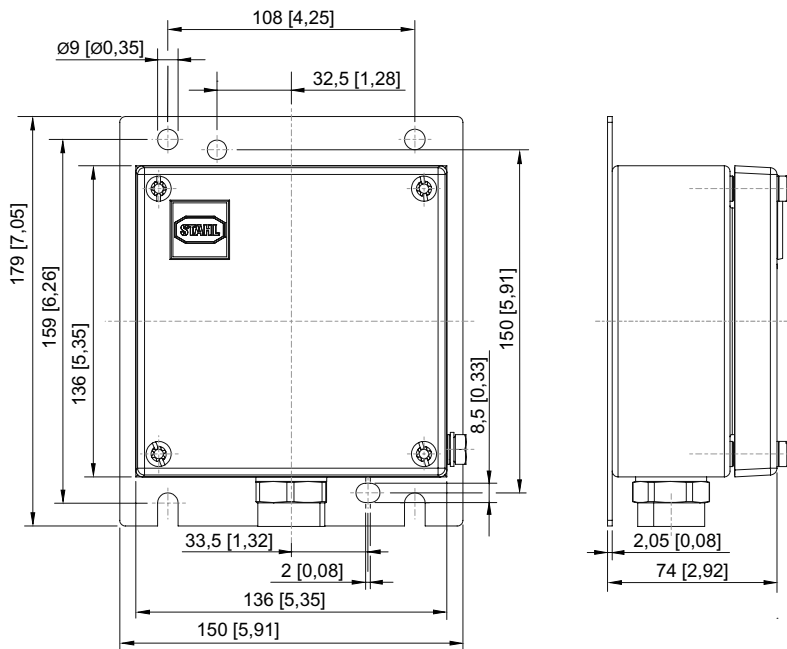
Explosion Protection	
Area of application	European Union (ATEX) Canada IECEX USA
Certificate ULus	E182378V1S5
Marking ULus	Class I, Div. 2, Groups A,B,C,D Class II, III, Div. 2, Groups F,G Class I, Zone 1, AEx db eb IIC T6 Enclosure Type 3, 4, 4X
Certificate cUL	E182378V1S5
Marking cUL	Ex db eb IIC T6 Class I, Div. 2, Groups A,B,C,D Class II, III, Div. 2, Groups F,G Enclosure Type 3, 4, 4X
IECEX gas explosion protection	Ex db eb IIC T6 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C Db
ATEX gas explosion protection	II 2 G Ex db eb IIC T6 Gb
ATEX dust explosion protection	II 2 D Ex tb IIIC T80 °C Db
Certificates	ATEX (PTB), Canada (UL), IECEX (PTB), India (PESO), USA (UL)
Notes	Product label may vary. Series devices are labelled with ATEX, IECEX, NEC® and CE Code.
Electrical Data	
Rated operational current	6 A
Rated operational voltage AC	IEC: 550 V NEC®, CE Code: 600 V
Rated operational power max. NEC[®]/sup>, CE Code	720 VA
Notes	Depending on the installed components.
Ambient Conditions	
Ambient temperature	-58 °F ... +140 °F
Ambient temperature	-50 °C ... +60 °C
Mechanical Data	
Enclosure type (UL50 & UL50E)	3, 4, 4X
Degree of protection (IP)	IP66
Enclosure material	Stainless steel 1.4404, (AISI 316L), brush finished
Silicone-free	No
Connection cross-section max.	2.5 mm²
Cover fixing type	With captive screws, M6 stainless steel screws
Seal	Silicone, foamed
Components	
Cable glands and entries	NPT 3/4
Entry type	CMP adaptor

Technical Data

Components

Entry 1	1 x CMP-737D M25-NPT 3/4" 737DM3T25
Entry 1 type	Metal adaptor
Entry 1	NPT 3/4"
Metal entry possible 1	Yes

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Control and distribution boxes made of stainless steel

Series 8150 made of Stainless Steel

STAHL



- Ex e control boxes made of stainless steel that can be individually equipped
- The cover is either equipped with a hinge (large opening angle, 130°) and cam lock or with a screw-on cover
- Numerous standard sizes in stock

E4

MY R. STAHL 8150B



R. STAHL Series 8150 control and distribution boxes are made of brush-finished stainless steel (1.4301, AISI 304 or 1.4404, AISI 316L) and are extremely robust: High-quality seal materials make them suitable for an extended temperature range, while a circumferential protection channel prevents water ingress. A flange plate simplifies mounting.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table										
Enclosure material		Stainless steel 1.4301, (AISI 304), brush finished								
Cover fixing type		Cam lock, With side A hinge								
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Wall thickness	Wall thickness, inches	Product Type	Art. No.	Weight
400 mm	15.748 in	400 mm	15.748 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0400-0400-230-2321	206607	17.8 kg
600 mm	23.622 in	600 mm	23.622 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0600-0600-230-2321	206621	31.2 kg
760 mm	29.921 in	760 mm	29.921 in	300 mm	11.811 in	2 mm	0.079 in	8150/5-0760-0760-300-2321	206627	41.9 kg
800 mm	31.496 in	1600 mm	62.992 in	300 mm	11.811 in	2 mm	0.079 in	8150/5-0800-1600-300-2321	206655	82.4 kg
Enclosure material		Stainless steel 1.4301, (AISI 304), brush finished								
Cover fixing type		With captive screws								
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Wall thickness	Wall thickness, inches	Product Type	Art. No.	Weight
176.5 mm	6.945 in	116.5 mm	4.587 in	91 mm	3.583 in	1.5 mm	0.059 in	8150/5-0176-0116-091-2311	206541	1.79 kg
360 mm	14.173 in	176.5 mm	6.945 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0360-0176-150-2311	206555	5.06 kg
360 mm	14.173 in	360 mm	14.173 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0360-0360-150-2311	206559	9.3 kg
400 mm	15.748 in	400 mm	15.748 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0400-0400-230-2311	206571	10.9 kg
600 mm	23.622 in	600 mm	23.622 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0600-0600-150-2311	206583	18.9 kg
600 mm	23.622 in	600 mm	23.622 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0600-0600-230-2311	206585	19.4 kg
787 mm	30.984 in	480 mm	18.898 in	230 mm	9.055 in	2 mm	0.079 in	8150/5-0787-0480-230-2311	206595	18.3 kg

Selection Table

Enclosure material Cover fixing type		Stainless steel 1.4404, (AISI 316L), brush finished Cam lock, With cont. hinge side A								
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Wall thickness	Wall thickness, inches	Product Type	Art. No.	Weight
200 mm	7.874 in	300 mm	11.811 in	150 mm	5.906 in	3 mm	0.118 in	8150/5-0200-0300-150-6341	257948	5.97 kg
Enclosure material Cover fixing type		Stainless steel 1.4404, (AISI 316L), brush finished Cam lock, With side A hinge								
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Wall thickness	Wall thickness, inches	Product Type	Art. No.	Weight
300 mm	11.811 in	400 mm	15.748 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0300-0400-230-3321	206604	22.6 kg
360 mm	14.173 in	360 mm	14.173 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0360-0360-150-3321	206638	13.4 kg
400 mm	15.748 in	300 mm	11.811 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0400-0300-230-3321	206598	22.6 kg
400 mm	15.748 in	400 mm	15.748 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0400-0400-150-3321	206606	23.2 kg
400 mm	15.748 in	400 mm	15.748 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0400-0400-230-3321	206608	17.8 kg
400 mm	15.748 in	600 mm	23.622 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0400-0600-230-3321	206618	25.7 kg
480 mm	18.898 in	787 mm	30.984 in	230 mm	9.055 in	2 mm	0.079 in	8150/5-0480-0787-230-3321	206630	32.3 kg
600 mm	23.622 in	400 mm	15.748 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0600-0400-230-3321	206610	25.4 kg
600 mm	23.622 in	600 mm	23.622 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0600-0600-150-3321	206620	23.7 kg
600 mm	23.622 in	600 mm	23.622 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0600-0600-230-3321	206622	31.1 kg
760 mm	29.921 in	760 mm	29.921 in	300 mm	11.811 in	2 mm	0.079 in	8150/5-0760-0760-300-3321	206628	33 kg
800 mm	31.496 in	1000 mm	39.37 in	300 mm	11.811 in	2 mm	0.079 in	8150/5-0800-1000-300-3321	206650	53.9 kg
800 mm	31.496 in	1200 mm	47.244 in	300 mm	11.811 in	2 mm	0.079 in	8150/5-0800-1200-300-3321	206652	63.4 kg
800 mm	31.496 in	1600 mm	62.992 in	300 mm	11.811 in	2 mm	0.079 in	8150/5-0800-1600-300-3321	206656	82.4 kg
1000 mm	39.37 in	1200 mm	47.244 in	300 mm	11.811 in	2 mm	0.079 in	8150/5-1000-1200-300-3321	206654	77.1 kg
Enclosure material Cover fixing type		Stainless steel 1.4404, (AISI 316L), brush finished With captive screws								
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Wall thickness	Wall thickness, inches	Product Type	Art. No.	Weight
176.5 mm	6.945 in	116.5 mm	4.587 in	91 mm	3.583 in	1.5 mm	0.059 in	8150/5-0176-0116-091-3311	206542	8.79 kg
176.5 mm	6.945 in	176.5 mm	6.945 in	91 mm	3.583 in	1.5 mm	0.059 in	8150/5-0176-0176-091-3311	206544	2.87 kg
236.5 mm	9.311 in	176.5 mm	6.945 in	91 mm	3.583 in	1.5 mm	0.059 in	8150/5-0236-0176-091-3311	206548	10.6 kg
236.5 mm	9.311 in	176.5 mm	6.945 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0236-0176-150-3311	206550	3.98 kg
360 mm	14.173 in	176.5 mm	6.945 in	91 mm	3.583 in	1.5 mm	0.059 in	8150/5-0360-0176-091-3311	206554	5.13 kg
360 mm	14.173 in	176.5 mm	6.945 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0360-0176-150-3311	206556	5.96 kg
360 mm	14.173 in	360 mm	14.173 in	91 mm	3.583 in	1.5 mm	0.059 in	8150/5-0360-0360-091-3311	206558	7.79 kg
360 mm	14.173 in	360 mm	14.173 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0360-0360-150-3311	206560	15.2 kg
360 mm	14.173 in	360 mm	14.173 in	190 mm	7.48 in	1.5 mm	0.059 in	8150/5-0360-0360-190-3311	206562	9.48 kg

Control and distribution boxes made of stainless steel

Series 8150 made of Stainless Steel

STAHL

E4

Selection Table

Enclosure material		Stainless steel 1.4404, (AISI 316L), brush finished								
Cover fixing type		With captive screws								
Width	Width in inches	Height	Height, inches	Depth	Depth, inches	Wall thickness	Wall thickness, inches	Product Type	Art. No.	Weight
360 mm	14.173 in	360 mm	14.173 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0360-0360-230-3311	206775	8.23 kg
400 mm	15.748 in	300 mm	11.811 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0400-0300-150-3311	206566	8.08 kg
400 mm	15.748 in	400 mm	15.748 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0400-0400-150-3311	206570	9.92 kg
400 mm	15.748 in	400 mm	15.748 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0400-0400-230-3311	206572	10.9 kg
400 mm	15.748 in	600 mm	23.622 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0400-0600-230-3311	206574	15 kg
550 mm	21.654 in	360 mm	14.173 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0550-0360-230-3311	206576	13.4 kg
600 mm	23.622 in	400 mm	15.748 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0600-0400-150-3311	206580	16.4 kg
600 mm	23.622 in	600 mm	23.622 in	150 mm	5.906 in	1.5 mm	0.059 in	8150/5-0600-0600-150-3311	206584	17.1 kg
600 mm	23.622 in	600 mm	23.622 in	230 mm	9.055 in	1.5 mm	0.059 in	8150/5-0600-0600-230-3311	206586	19.4 kg
727 mm	28.622 in	360 mm	14.173 in	91 mm	3.583 in	2 mm	0.079 in	8150/5-0727-0360-091-3311	206780	14.3 kg
727 mm	28.622 in	360 mm	14.173 in	150 mm	5.906 in	2 mm	0.079 in	8150/5-0727-0360-150-3311	206588	17.8 kg
727 mm	28.622 in	360 mm	14.173 in	190 mm	7.48 in	2 mm	0.079 in	8150/5-0727-0360-190-3311	206778	16.8 kg
787 mm	30.984 in	480 mm	18.898 in	230 mm	9.055 in	2 mm	0.079 in	8150/5-0787-0480-230-3311	206596	18.3 kg

Technical Data

Explosion Protection

Scope of validity	European Union (ATEX) IECEX
IECEX gas explosion protection	Ex eb IIC T6 ... T4 Gb
IECEX dust explosion protection	Ex tb IIIC T80 °C ... T130 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex eb IIC T6 ... T4 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC T80 °C ... T130 °C Db
Certificates	ATEX (PTB), Brazil (ULB), Canada (FM), Canada (UL), China (NEPSI), IECEX (PTB), India (PESO), Korea (KGS), Taiwan (ITRI), USA (FM), USA (UL)
Notes	Product label may vary. Series devices are labelled with ATEX and IECEX.

Electrical Data

Rated operational voltage AC	0 ... 1000 V
Rated operational current	0 – 630 A
Notes	Depending on the built-in components.

Ambient Conditions

Ambient temperature	-60 °C ... +40 °C (T6) (T80 °C) -60 °C ... +55 °C (T5) (T95 °C) -60 °C ... +70 °C (T4) (T130 °C)
Ambient temperature	-76 °F ... +104 °F (T6) (T80 °C) -76 °F ... +131 °F (T5) (T95 °C) -76 °F ... +158 °F (T4) (T130 °C)

Mechanical Data

Degree of protection IP (IEC 60529)	IP66
Silicone-free	No
Cover thickness	2 mm
Cover thickness inch	0.079 in

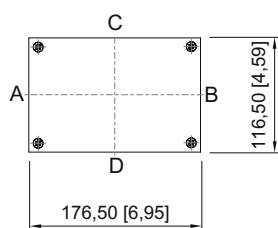
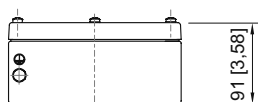
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Components

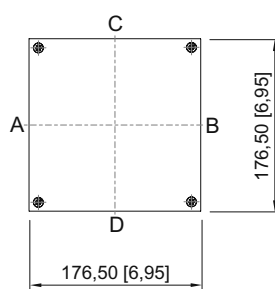
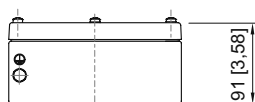
Flange and plates Without flange

For information on accessories and spare parts, please contact your assigned R. STAHL sales partner.

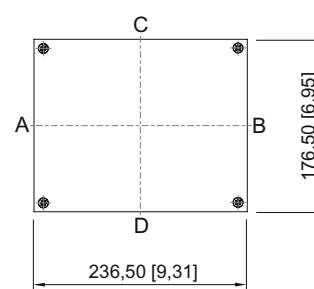
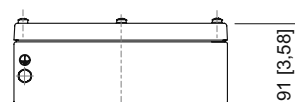
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



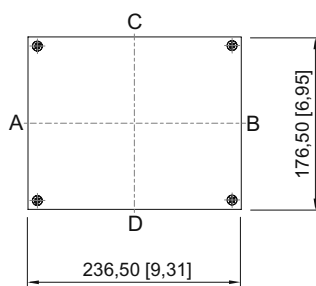
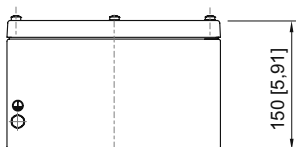
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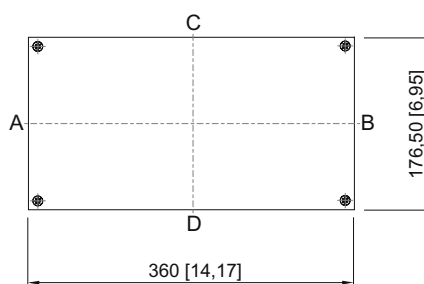
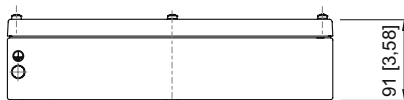
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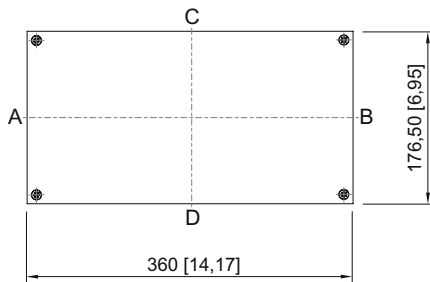
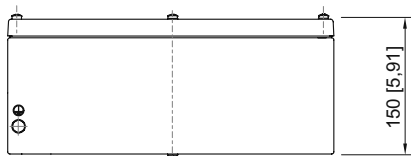
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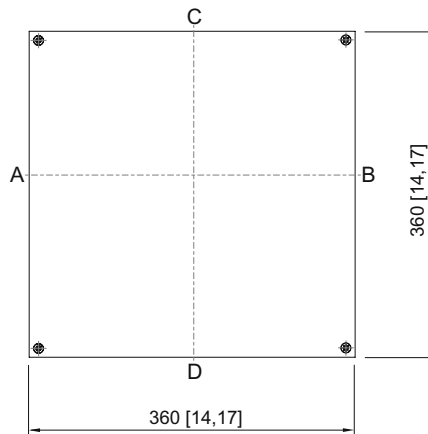
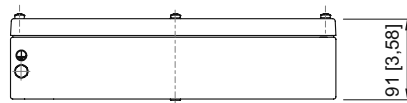
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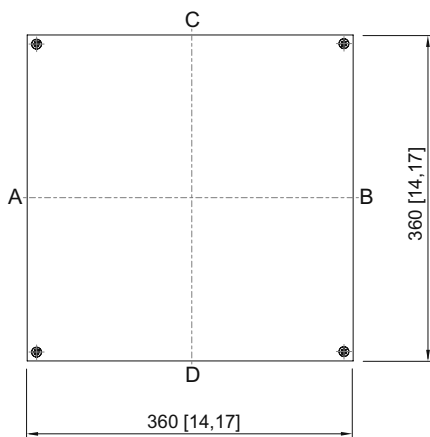
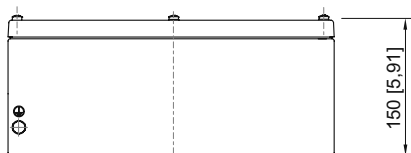
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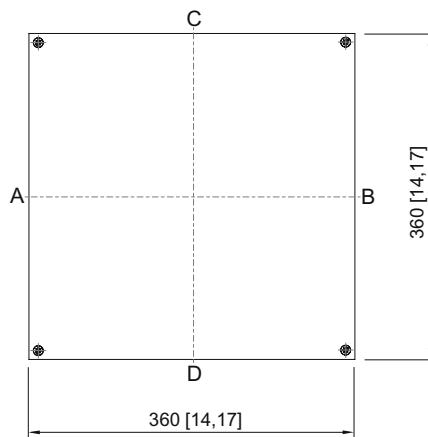
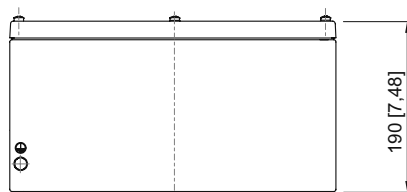
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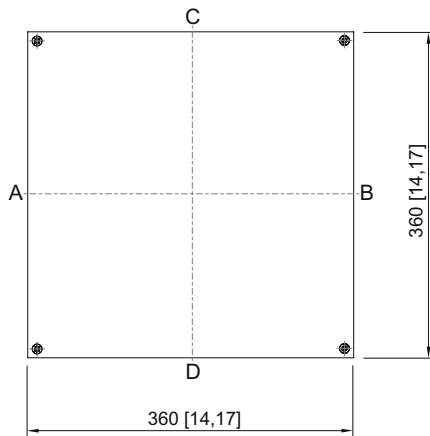
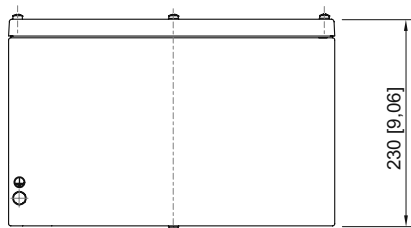


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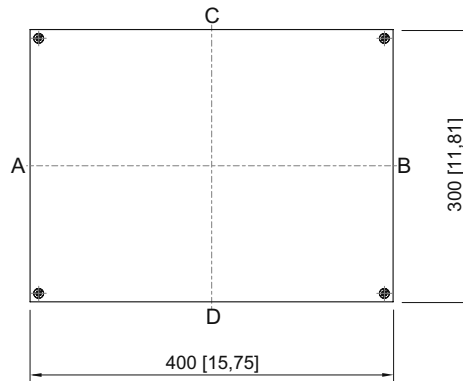
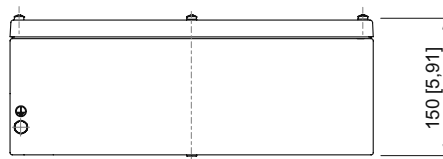


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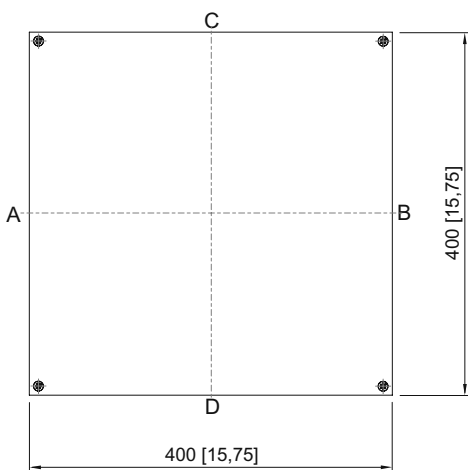
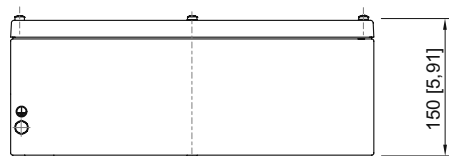
E4



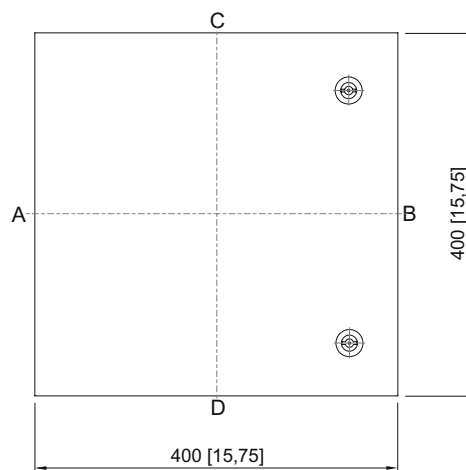
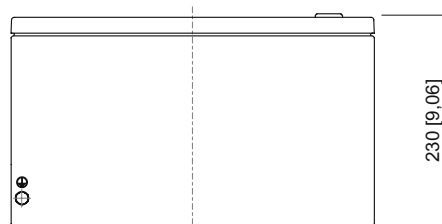
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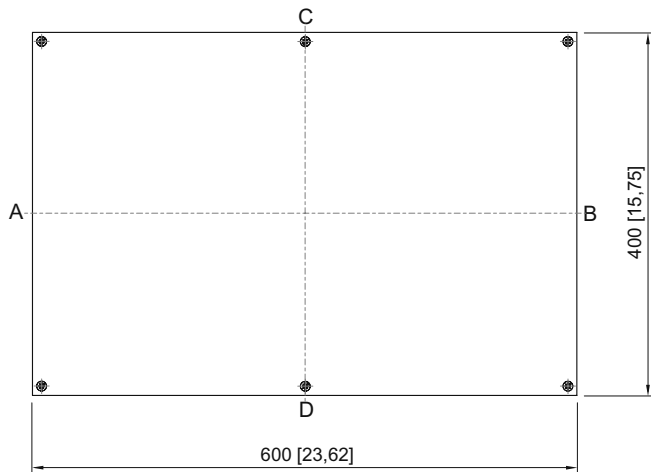
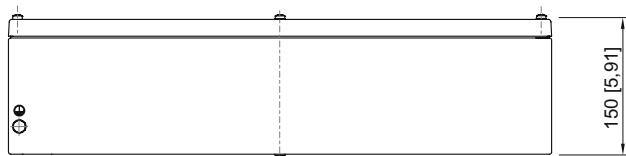
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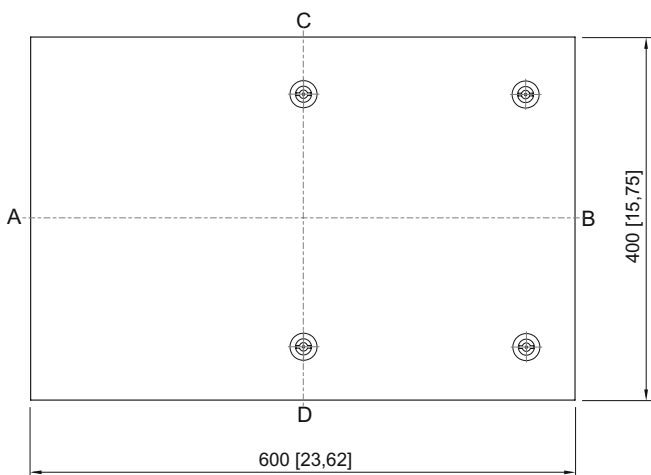
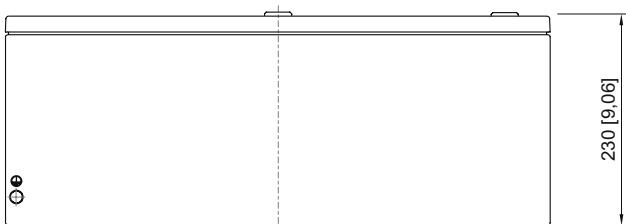
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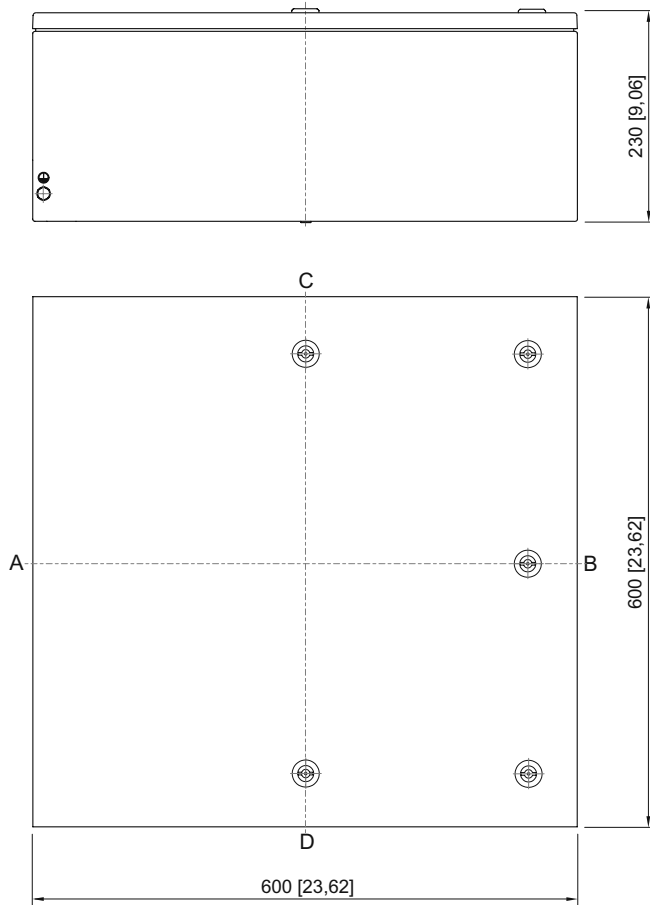


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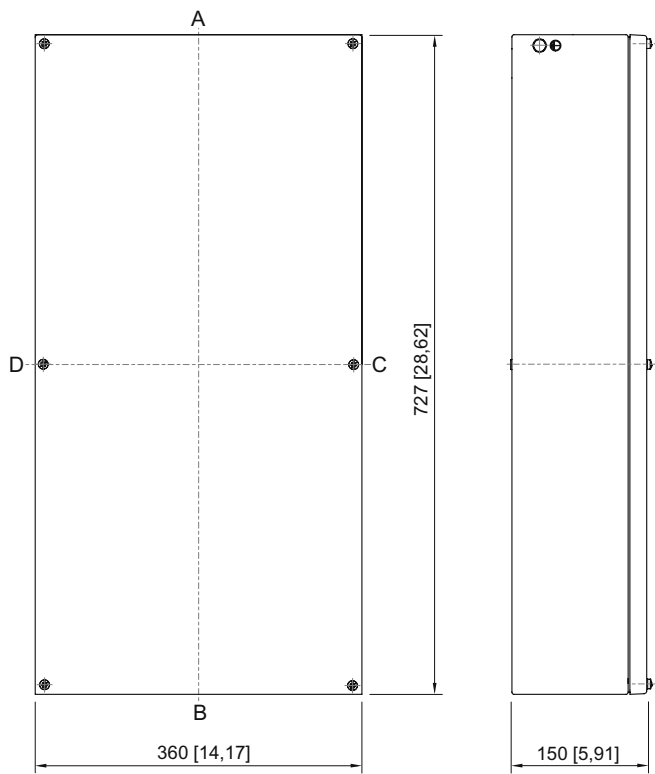


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E4

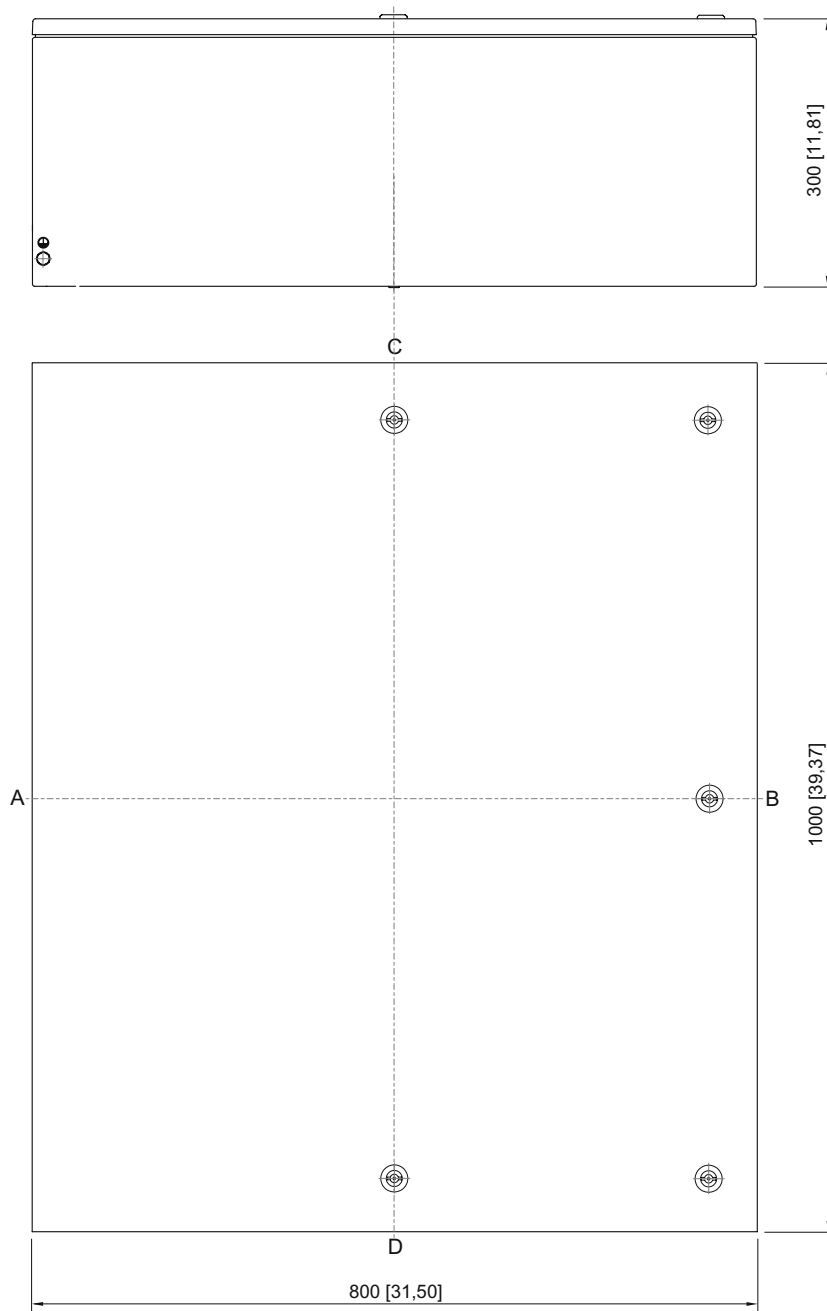


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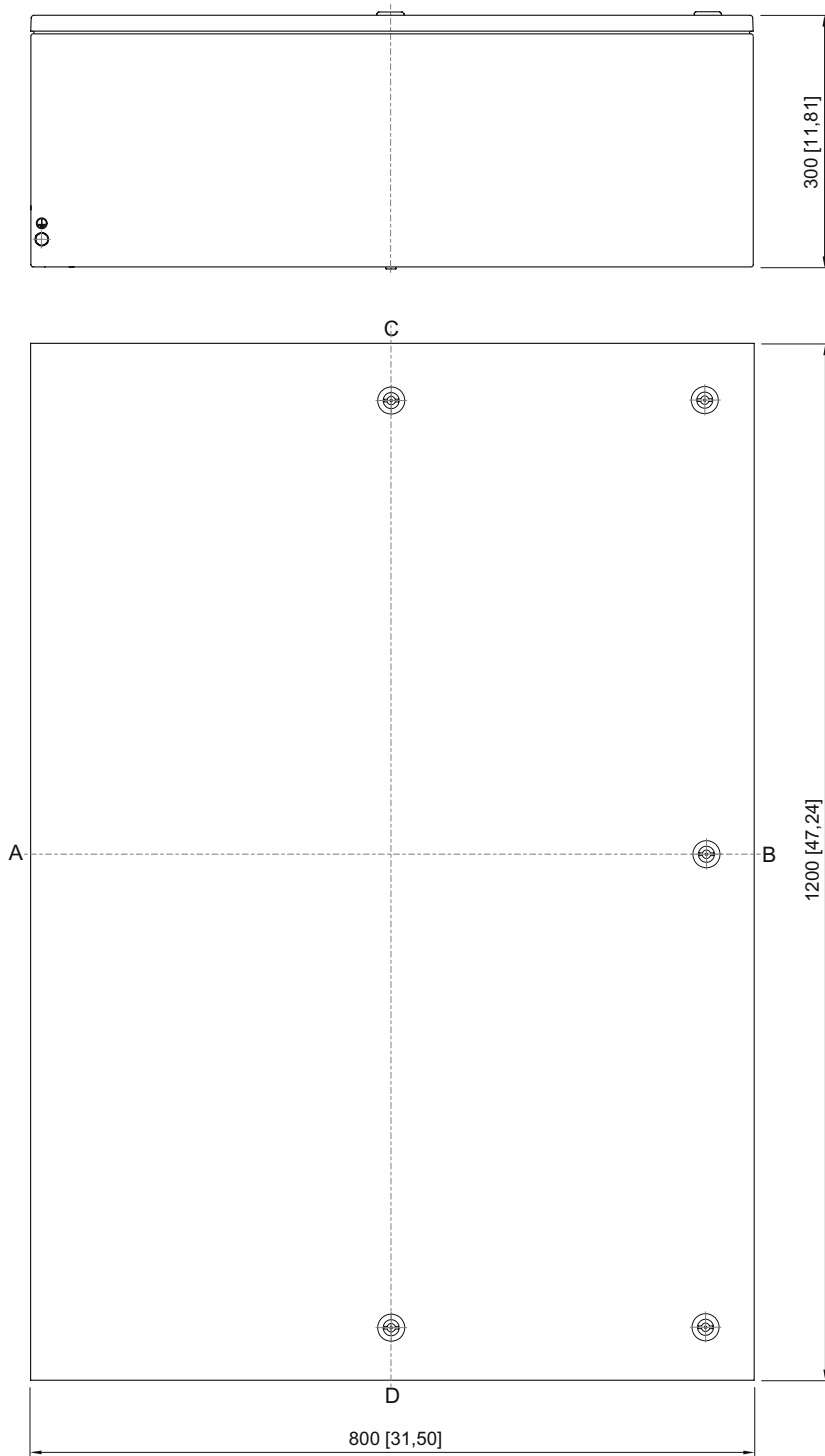


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E4

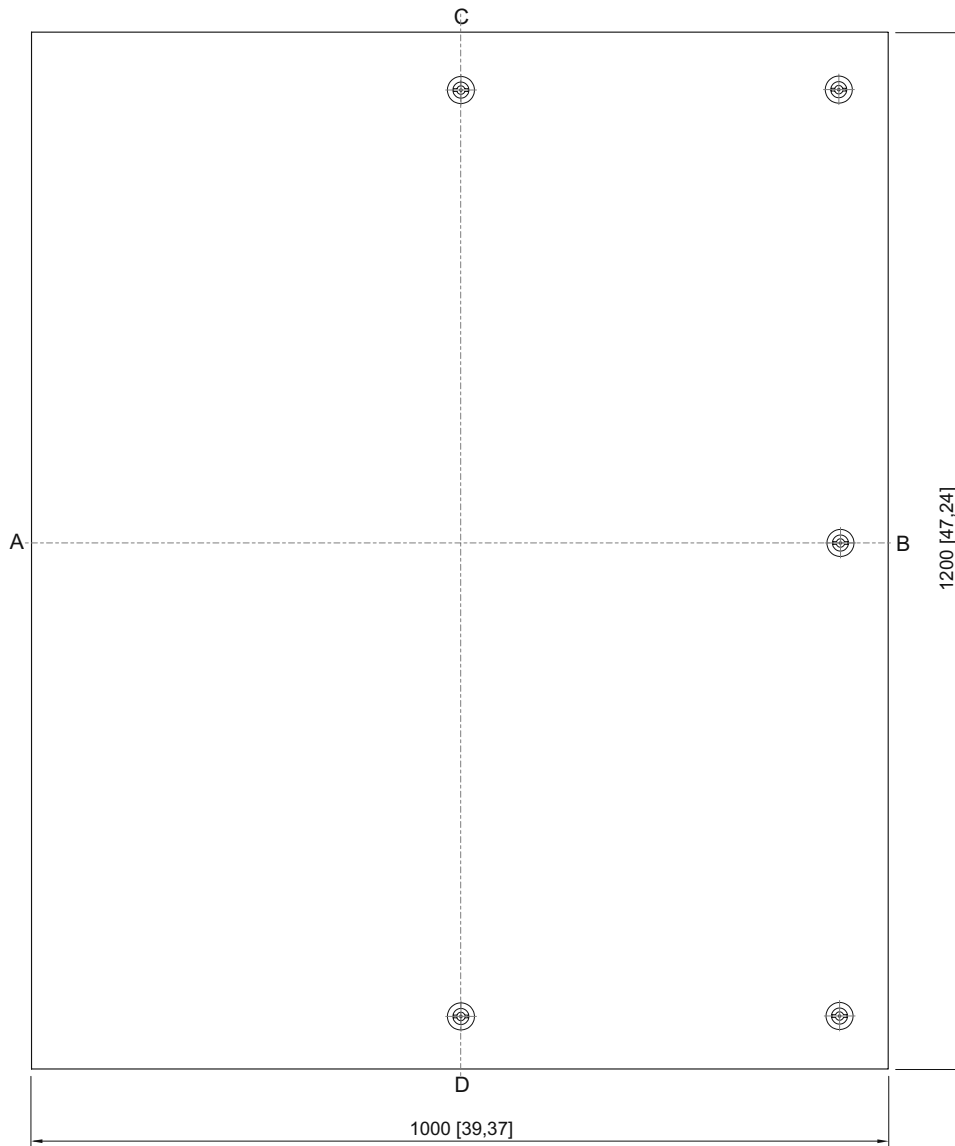
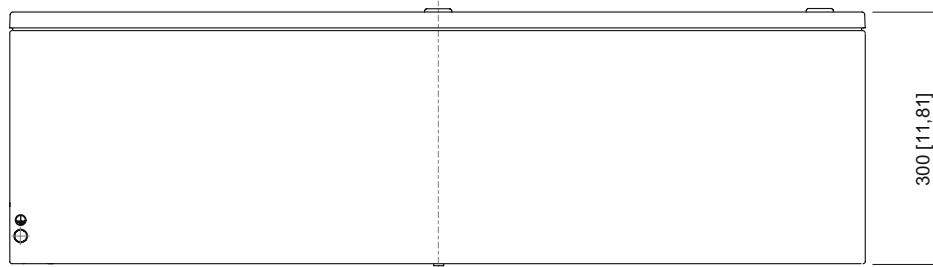


8150/-0800-1000-300-..2.



8150/-0800-1200-300-..2.

E4



8150/-1000-1200-300-..2.