

Terminal Boxes

Series 8125



www.stahl.de



03099E00

- > Wide product range
- > Enclosure of electropolished stainless steel 1.4404 (AISI 316L) or galvanised steel sheet
- > 6 basic enclosure sizes with various heights
- > Fitted according to the customer's requirements
- > For terminals up to max. 300 mm²
- > With captive cover screws
- > Degree of protection IP66

E3



The Series 8125 of R. STAHL can offer terminal boxes for almost every individual application. The enclosure is available in electropolished stainless steel 1.4404 (AISI 316L) or in galvanised steel sheet. The wide product range includes six basic enclosure sizes with different heights.

Depending on the order, the terminal boxes are fitted with terminal blocks and cable glands. Terminals up to a size of 300 mm² can be used. Upon request, flanges made of stainless steel or galvanised steel sheet can be fitted on several sides of the enclosure.

Zone	ATEX / IECEx						Zone	Class I (NEC 505) (NEC 506)						Division	Class I		Class II		Class III	
	0	1	2	20	21	22		0	1	2	20	21	22		1	2	1	2	1	2
8125/1: For use in		x	x		x	x	8125/1: For use in		x	x					8125/1: For use in	x	x ¹⁾	x	x	x
8125/2: For use in		x	x		x	x	8125/2: For use in		*)	*)					8125/2: For use in	x		x	x	x

*) Approval not required, x¹⁾ = Canada

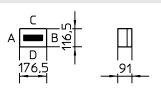
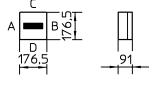
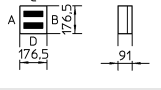
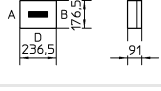
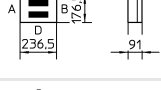
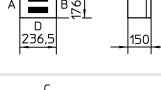
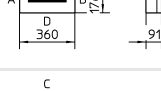
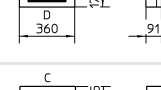
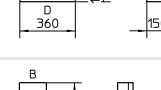
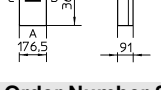
WebCode 8125B

Terminal Boxes

Series 8125

Selection Table

for terminal boxes up to max. 35 mm²

Nominal cross-section [mm ²]	Max. number of line-up terminals which can be fitted												Order number	Weight	
	2.5	4	6	10	16	35									
Arrangements	UK 3 N	WDU 2,5	MXK4	UK 5 N	WDU 4	UK 6 N	WDU 6	UK 10 N	WDU 10	UK 16 N	WDU 16	UK 35	WDU 35		kg
 08849E00	14	-	12	12	-	-	-	-	-	-	-	-	-	8125/.041-	1.0
 08848E00	19	19	16	16	16	11	12	9	9	8	-	-	-	8125/.051-	1.5
 08847E00	-	-	28	-	-	-	-	-	-	-	-	-	-	8125/.051-	1.6
 08846E00	27	28	23	23	24	17	17	13	14	11	-	-	-	8125/.061-	2.1
 08845E00	-	-	46	-	-	-	-	-	-	-	-	-	-	8125/.061-	2.3
 08844E00	-	-	46	-	-	-	-	-	-	-	-	-	-	8125/.063-	3.0
 08843E00	49	51	-	41	42	31	31	24	25	20	-	-	-	8125/.071-	3.1
 08842E00	-	-	82	-	-	-	-	-	-	-	-	-	-	8125/.071-	3.3
 08841E00	49	51	41	41	42	31	31	24	25	20	20	-	-	8125/.073-	4.0
 08840E00	19	19	-	16	16	11	12	9	9	8	-	-	-	8125/.071-	3.1

Order Number Supplement:

Version:	Ex e	8125/1....
	Ex i	8125/2....
Material:	Sheet steel	8125/....-1
	Stainless steel	8125/....-2

Specify with order:

Terminal blocks: Number and type
Cable entries: Number, type and installation side in enclosure
Flanges: Flanges can be fitted to order; please indicate the side on which they are to be fitted.

Note:

The order numbers contain the enclosure with carrier rails and PE or PA rail.
 Terminal boxes fitted with terminals > 35 mm² up to 300 mm² on request.

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Selection Table

for terminal boxes up to max. 35 mm²

Nominal cross-section [mm ²]	Max. number of line-up terminals which can be fitted												Order number	Weight	
	2.5	4	6	10	16	35									
Arrangements	UK 3 N	WDU 2,5	MXK4	UK 5 N	WDU 4	UK 6 N	WDU 6	UK 10 N	WDU 10	UK 16 N	WDU 16	UK 35	WDU 35		kg
 08839E00	51	53	-	43	44	32	33	26	26	21	-	-	-	8125/.081-	5.5
 08838E00	98	102	82	82	84	62	62	48	50	40	-	-	-	8125/.081-	5.7
 08837E00	147	153	123	123	-	-	-	-	-	-	-	-	-	8125/.081-	6.0
 08836E00	51	53	43	43	44	32	33	26	26	21	22	17	16	8125/.083-	6.5
 08835E00	98	102	82	82	84	62	62	48	50	40	-	-	-	8125/.083-	6.7
 08834E00	147	153	123	123	-	-	-	-	-	-	-	-	-	8125/.083-	7.0
 08833E00	102	106	86	86	88	64	66	52	52	42	44	-	-	8125/.093-	10.0
 08832E00	196	204	164	164	168	124	124	96	100	80	-	-	-	8125/.093-	10.5
 08831E00	294	306	246	246	-	-	-	-	-	-	-	-	-	8125/.093-	11.0

Order Number Supplement:

Version:	Ex e	8125/1...-
	Ex i	8125/2...-
Material:	Sheet steel	8125/...-1
	Stainless steel	8125/...-2

Specify with order:

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Explosion Protection

Marking

IECEX	
Gas explosion protection	Ex dem [ia] IIC T6, T5, T4 Ex ia/ib IIA, IIB, IIC T6
Dust explosion protection Europe (ATEX)	Ex tD IP66 T80°C, T95°C, T130°C
Gas explosion protection	Ⓜ II 2 G Ex dem [ia] IIC T6, T5, T4 Ⓜ II 2 G Ex ia/ib IIA, IIB, IIC T6
Dust explosion protection	Ⓜ II 2 D Ex tD A21 IP66 T80°C, T95°C, T130°C

Certificates

IECEX	IECEX PTB 06.0060
Europe (ATEX)	PTB 00 ATEX 3116
Other certificates	Brazil (UL do Brasil), India (PESO), Canada (CSA), China (CQST Ex), Kazakhstan (JSC), Korea (KGS), Russia (CTB), USA (UL), Belarus (Gospromnadzor), ship approval (GL)

Technical Data

Electrical data

Rated operational voltage	max. 1100 V, AC / DC (depending on the terminal type and the explosion protected components used)
Rated operational current	max. 630 A (depending on the terminal type and the explosion protected components used)

Ambient conditions

Ambient temperature	8125/1: - 50 ... + 55 °C 8125/2: - 50 ... + 75 °C (depending on the built-in components)
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Mechanical data

Degree of protection	
Degree of protection	IP66 (depending on the mounted cable glands)
Material	
Enclosure	- Galvanised sheet steel, painted in light grey (RAL 7032) - stainless steel 1.4404 (AISI 316L), electropolished, without painting (painting possible to order)
Gasket	Polyurethane foam
Flanges	
Standard	the enclosures are supplied without flanges in the standard version
Option	the enclosures can be fitted on one or more sides with flanges; flange material: sheet steel, galvanised or stainless steel
Cover fixing	
Standard	with captive M6 stainless steel combo head screws
Option	with cover hinges

Assembly / Installation

Connection	According to the order directly to the fitted components or to the terminal blocks. The rated operational voltage, the rated operational current and the rated cross section depend on the terminal type used and the explosion protected components.
Terminal blocks	Rated cross section which can be used: max. 300 mm ² . The maximum number of terminals for the respective enclosure size are indicated in the EC type examination certificate.
Tightening torque	according to the specifications of the terminal block manufacturers

Terminal Boxes


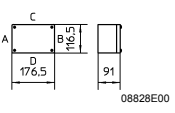

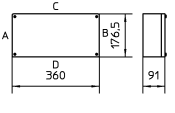

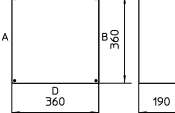


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Max. number of cable glands, series 8161, to be mounted

Attention:

The maximum number of cable glands which can be mounted in the enclosure walls depends on the position of the installed mounting rails and components.


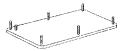

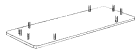
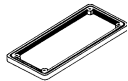
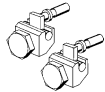
Cable gland	Enclosure size	
 05864E00	8125/.041  08828E00	
	without flange	with flange
Size	A B C D A/B C/D	A B C D A/B C/D
M16 x 1.5	9 10 16 15 -- 4	15 16 16 15 4 4
M20 x 1.5	3 4 7 7 -- 3	7 7 7 7 3 3
M25 x 1.5	2 2 5 5 -- 3	5 5 5 5 3 3
M32 x 1.5	1 2 3 3 -- 2	3 3 3 3 2 2
M40 x 1.5	1 1 2 2 -- 2	2 2 2 2 -- 2
M50 x 1.5	1 1 2 2 -- 2	2 2 2 2 -- 2
M63 x 1.5	-- -- -- -- -- --	-- -- -- -- -- --
 05864E00	8125/.071  08225E00	
	without flange	with flange
Size	A B C D A/B C/D	A B C D A/B C/D
M16 x 1.5	15 16 34 33 4 8	26 27 57 56 16 31
M20 x 1.5	7 7 18 18 3 6	17 17 39 38 8 19
M25 x 1.5	5 5 14 14 3 6	12 12 30 29 6 16
M32 x 1.5	3 3 7 7 2 4	7 7 16 16 4 9
M40 x 1.5	2 2 6 5 -- 4	5 5 11 11 2 5
M50 x 1.5	2 2 5 4 -- 4	3 3 9 9 1 4
M63 x 1.5	-- -- -- -- -- --	2 2 4 4 1 2
 05864E00	8125/.085  08716E00	
	without flange	with flange
Size	A B C D A/B C/D	A B C D A/B C/D
M16 x 1.5	80 80 82 81 53 53	106 106 106 105 53 53
M20 x 1.5	47 47 47 46 26 26	66 66 66 65 26 26
M25 x 1.5	37 37 37 37 20 20	52 52 52 52 20 20
M32 x 1.5	22 22 22 22 12 12	29 29 29 29 12 12
M40 x 1.5	16 16 16 16 8 8	18 18 18 18 8 8
M50 x 1.5	9 9 9 9 5 5	15 15 15 15 5 5
M63 x 1.5	7 8 8 7 3 3	8 8 8 8 3 3
 05864E00	8125/.095  08717E00	
	without flange	with flange
Size	A B C D A/B C/D	A B C D A/B C/D
M16 x 1.5	80 80 171 170 53 106	
M20 x 1.5	47 47 151 144 26 52	
M25 x 1.5	37 37 82 81 20 40	
M32 x 1.5	22 22 50 49 12 24	
M40 x 1.5	16 16 29 29 8 16	
M50 x 1.5	9 9 21 21 5 10	
M63 x 1.5	7 8 16 16 3 6	

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Accessories and Spare Parts

Designation	Illustration	Description	Order number	Weight kg	
Flange	 05740E00	Size 1 Sheet steel	134216	0.200	
		Size 1 128 x 68 x 5 mm Stainless steel	135051	0.340	
		can be mounted on enclosure	Side		0.000
		8125/.051	C / D		
		8125/.061	A / B / C / D		
		8125/.071	A / B / C / D		
		8125/.S71	C / D		
		8125/.081	A / B / C / D		
	 05738E00	Size 2 Sheet steel	134245	1.050	
		Size 2 266 x 126 x 5 mm Stainless steel	135093	1.310	
		can be mounted on enclosure	Side		
		8125/.073	C / D		
		8125/.083, /.085	A / B / C / D		
		8125/.093, /.095	A / B / C / D		
	 05739E00	Size 3 Sheet steel	134274	1.050	
Size 3 126 x 126 x 5 mm Stainless steel		135125	0.630		
can be mounted on enclosure		Side			
	8125/.063	A / B / C / D			
	8125/.073	A / B			
 08744E00	Size 4 Sheet steel	134292	2.160		
	Size 4 352 x 155 x 5 mm Stainless steel	135145	2.146		
	can be mounted on enclosure	Side			
	8125/.085	A / B / C			
	8125/.095	A / B / C			
Frame	 04901E00	Size 0 68 x 68 mm	136012	0.010	
		Size 1 68 x 128 mm	135974	0.020	
		Size 2 126 x 266 mm	136031	0.040	
		Size 3 126 x 126 mm	136235	0.100	
		Size 4 352 x 155 mm	134289	0.160	
Cover hinge	 05737E00	8125 for retrofitting to enclosures Mounting set consisting of:			
		2 hinges	134943	0.034	
		3 hinges	134949	0.051	

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Dimensional Drawings (All Dimensions in mm) - Subject to Alterations

8125/04. 04554E00

8125/05. 04555E00

8125/06. 04556E00

8125/07. 04557E00

8125/08. 04558E00

8125/09. 04559E00

Additional dimension for flange

Enclosure	Enclosure height h			
	8125/...1 91 mm	8125/...3 150 mm	8125/...5 190 mm	8125/...6 230 mm
8125/04.	X	-	-	-
8125/05.	X	-	-	-
8125/06.	X	X	-	-
8125/07.	X	X	-	-
8125/08.	X	X	X	X
8125/09.	X	X	X	-

X ... can be supplied

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We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.