



EEx d Enclosures in Light Metal Flameproof Encapsulation Series 8265

- International certification
- Flexible modular design for combining enclosures
- For use in Zone 1 and Zone 2
- 4 enclosure sizes
- Glass windows optional
- Entry method direct and indirect

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The enclosures are used to build motor starters, control stations and terminal boxes. Furthermore they are suitable for measuring equipment and customer specific control units. By using this technology the installation of sparking and arcing equipment in a Zone 1 or a Zone 2 application is enabled. Therefore just standard industrial electrical components are used. This equipment is engineered and wired according to customer's requirement. Optionally the enclosure can be mounted in an "Increased Safety" control panel as module for lighting and heating distribution panels. The design of the enclosure is optimised for:

- simple installation and commissioning
- efficient maintenance

This is achieved by the big cover opening. Therefore the complete mounting slot for the electrical components is freely accessible. Covers with windows and O-Ring seals together with mounting plates and DIN rails are available to complete the series of enclosures.

For direct cable entry flameproof cable glands or threaded entries for direct conduit connection can be applied. For indirect cable entry connection chambers - type 8146 and 8125 - come into use.

Zones 1 & 2

Selection table				
Version	Total dimensions LxBxH [mm]	Description	Ordering code	Weight kg
Size 2	155 x 155 x 132	Empty enclosure without window	8265/02-000	4,200
		Empty enclosure with window	8265/02-001	4,400
Size 3	195 x 195 x 172	Empty enclosure without window	8265/03-000	6,800
		Empty enclosure with window	8265/03-001	7,300
Size 4	236 x 236x 227	Empty enclosure without window	8265/04-000	11,300
		Empty enclosure with window	8265/04-001	12,000
Size 5	335 x 335 x 275	Empty enclosure without window	8265/05-000	27,800
		Empty enclosure with window	8265/05-001	28,800

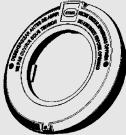
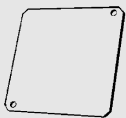
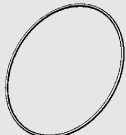
Typical combinations of Ex d enclosures 8265 with connection chambers 8146 or 8125				
Ex d enclosures	Connection chambers in moulded plastic		Connection chambers in sheet steel or stainless steel	
	Connection chamber	via spacer	Connection chamber	via spacer
8265/02-... Size 2	8146/.031	Size 0	8125/.041	Size 0
	8146/.041	Size 0		
8265/03-... Size 3	8146/.041	Size 1	8125/.041	Size 1
	8146/.051	Size 1	8125/.051	Size 1
	8146/.061	Size 1	8125/.061	Size 1
	8146/.071	Size 1	8125/.071	Size 1
8265/04-... Size 4	8146/.073	Size 3	8125/.073	Size 3
	8146/.083	Size 3	8125/.083	Size 3
	8146/.093	Size 3	8125/.093	Size 3
8265/05-... Size 5	8146/.073	Size 2	8125/.073	Size 2
	8146/.083	Size 2	8125/.083	Size 2
	8146/.093	Size 2	8125/.093	Size 2

Technical Data		
Version	Series 8265	
Gas explosion protection	Ⓔ II 2G EEx d IIC T4 ... T6	
Certificates	PTB 06 ATEX 1023 U ICE UL	
Rated operational voltage U _e	Standard:	Max. 1100 V
	Option:	bis 10 kV
Rated working current I _e	Enclosure	Current
	Size 2	max. 160 A
	Size 3	
	Size 4	
	Size 5	max. 250 A
Degree of protection	IP 54 IP 66 (with additional O-gasket)	
Housing	aluminium, copper free (saltwater-proof)	

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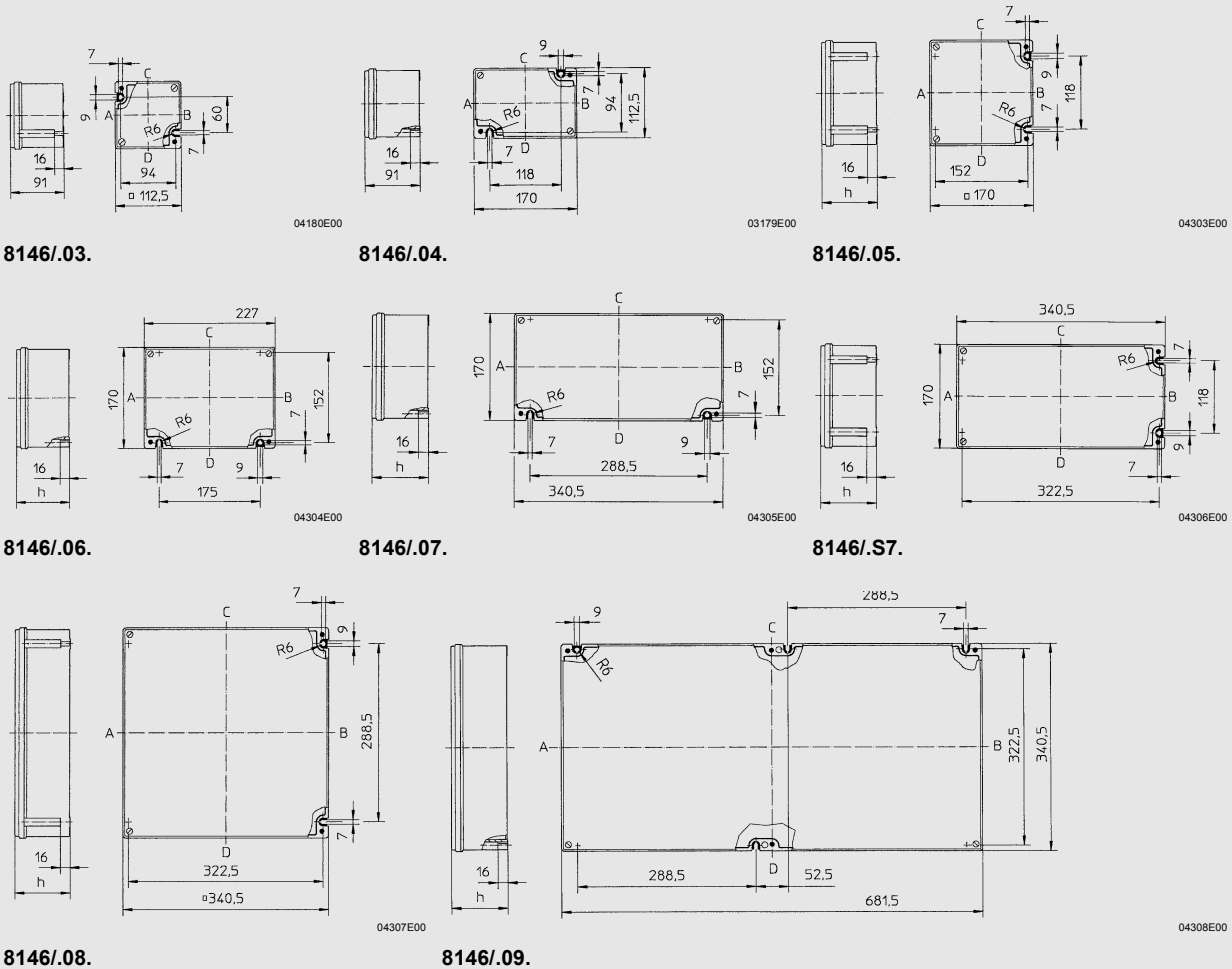
Technical Data

Power loss and temperature class	Enclosure	for ambient temperature 40 °C							
		T6	T5		T4				
	Size 2	30 W		45 W		85 W			
	Size 3	43 W		63 W		119 W			
	Size 4	62 W		93 W		175 W			
	Enclosure	for ambient temperature 55°C							
		T6	T5		T4				
	Size 2	18 W		30 W		67 W			
	Size 3	26 W		43 W		93 W			
	Size 4	35 W		62 W		138 W			
	Maximal number of drillings	Maximal number of metrical drillings							
		Enclosure	M 20	M 25	M 32	M 40	M 50	M 63	M 75
		Size 2	3	2	2	1			
		Size 3	8	4	3	2	1	1	1
Size 4		16	9	6	4	3	1	1	
Maximal number of conduit drillings	Maximal numbers of Conduit-drillings								
	Enclosure	1/4“	3/8“	1/2“	3/4“	1“	1 1/4“	1 1/2“	2“
	Size 2	8	8	4	3	2	2	1	-
	Size 3	16	16	9	6	5	3	2	1
	Size 4	36	36	18	16	9	6	5	3
Version		EEx e enclosure 8146							
Explosion protection									
Gas explosion protection		⚡ II 2 G EEx edmq ia / ib [ia / ib] IIA, IIB resp. IIC T6, T5 resp. T4							
Certificates									
Gas explosion protection		PTB 01 ATEX 1024							
Material									
Housing		Polyester resin, glass fibre-reinforced, dark grey, similar to RAL 7024, impact strenght ≥ 7 Nm, surface resistance ≤ 10 ⁹ Ohm, material flame resistant, self-extinguishing							
Gaskets		Polyurethane, foam							
Degree of protection		IP 66 (dependent on equipment installed)							
Rated working voltage		max. 1100 V (dependent on equipment installed)							
Rated working current I _e		max. 630 A							
Version		EEx e enclosure 8125							
Explosion protection									
Gas explosion protection		⚡ II 2 G EEx edmq [ia/ib] IIA resp. IIB T6, T5 resp. T4							
Certificates									
Gas explosion protection		PTB 01 ATEX 1105							
Material									
Housing		dependent on version selected: sheet steel, glavanized; painted light grey, RAL 7032 or stainless steel without paint (paint finish can be ordered)							
Gaskets		Polyurethane, foam							
Degree of protection		IP 66 (dependent on equipment installed)							
Rated working voltage		max. 1100 V (dependent on equipment installed)							
Rated working current I _e		max. 630 A							

Accessories and spare parts		
Designation	Illustration	Ordering code
Cover with window		for enclosure: Size 2 Visible part of window 107 mm 826500050020
		for enclosure: Größe 3 Visible part of window 143 mm 826500050030
		for enclosure: Size 4 Visible part of window 191 mm 826500050040
		for enclosure: Size 5 Visible part of window 191 mm 826500050050
Mounting plate		for enclosure size 2 826590550020
		for enclosure size 3 826590550030
		for enclosure size 4 826590550040
		for enclosure size 5
O-Ring		for enclosure size 2 5156550
		for enclosure size 3 5156560
		for enclosure size 4 5156570
Drain and breather valve		with thread $\frac{3}{8}$ " 4607270
		with thread $\frac{1}{2}$ " 4607280
Terminal rail		TS35 for enclosure size 3 8146954980
		G32 for enclosure size 3 8146949980
		TS15 for enclosure size 3 8146942980
		TS35 for enclosure size 4 8146955980
		G32 for enclosure size 4 8146950980
		TS15 for enclosure size 4 8146943980

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Dimension drawings (all dimensions in mm) - subject to alterations



8146/03.

8146/04.

8146/05.

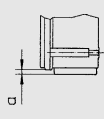
8146/06.

8146/07.

8146/S7.

8146/08.

8146/09.



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Flange thickness [mm]	Dimension a [mm]
2.8	7
5.8	10

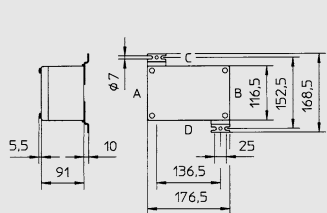
Additional dimensions for flange mounting

Enclosure	Height of enclosure h				
	8146/...1 91 mm	8146/...2 131 mm	8146/...3 150 mm	8146/...5 190 mm	8146/...6 230 mm
8146/03.	X	-	-	-	-
8146/04.	X	-	-	-	-
8146/05.	X	X	-	-	-
8146/06.	X	X	-	-	-
8146/07.	X	X	X	X	-
8146/S7.	X	-	X	-	-
8146/08.	X	X	X	X	X
8146/09.	X	X	X	X	-

X ... can be supplied

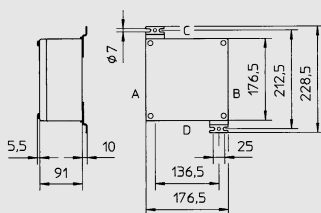
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Dimension drawings (all dimensions in mm) - subject to alterations

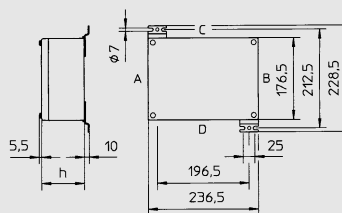


04554E00

8125/04.

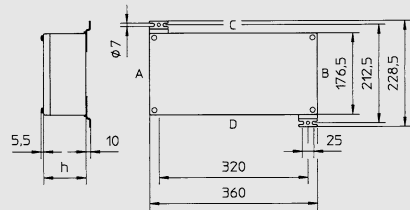


8125/05.



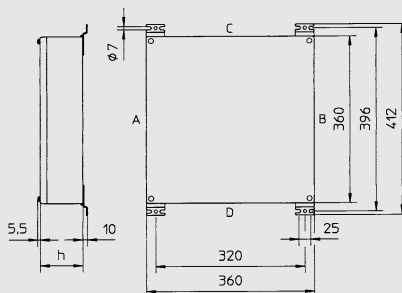
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8125/06.



04557E00

8125/07.



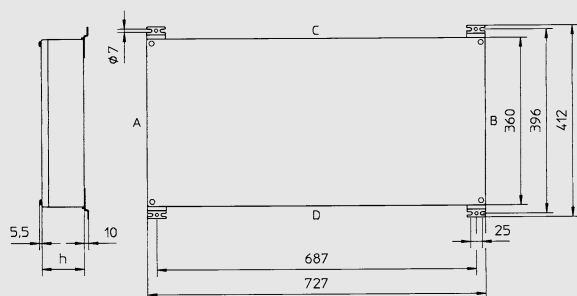
04558E00

8125/08.



Additional dimension
for flange

04560E00



04559E00

8125/09.

Enclosure	Hight of enclosure 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, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.