



03098E00

- > Enclosures in shock-resistant glass fibre reinforced polyester resin
- > 8 basic enclosure sizes with various heights
- > Fitted according to the customer's requirements
- > For terminals up to max. 300 mm<sup>2</sup>
- > With captive cover screws
- > Degree of protection IP66



E3









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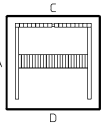
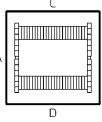
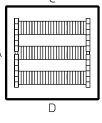
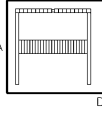
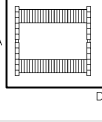
		ATEX / IECEx / GOST					Zone						NEC 505 Class I			NEC 506			NEC 500								
		0	1	2	20	21	22	Zone						Class I			Class II			Class III							
Zone		0	1	2	20	21	22	0	1	2	20	21	22	Division			1	2	1	2	1	2					
8146/1: For use in			x	x		x	x	8146/1: For use in														x		x	x		
8146/2: For use in			x	x		x	x	8146/2: For use in															x		x	x	

<sup>1)</sup> Approval not required

Technical Data	
Explosion protection	
Global (IECEx)	
Gas and dust	IECEx PTB 06.0046 Ex dem ia/ib [ia] IIC, IIB, IIA T6, T5 Ex tD A21 IP66 T130°C, T95°C, T80°C
Europe (ATEX)	
Gas and dust	PTB 01 ATEX 1016 II 2 G Ex dem ia/ib [ia] IIA, IIB, IIC T6, T5 II 2 D Ex tD A21 IP66 T130°C, T95°C, T80°C
Certificates and approvals	
Certificates	IECEx, ATEX, China (Nepsi), Brazil (UI do Brasil), Canada (CSA), Kazakhstan (GOST-K), Korea (KSG), Russia (GOST-R), Taiwan (ITRI), Ukraine (GOST-U), Belarus (GOST-B), USA (UL)
Other approvals	Shipping (GL, RS)
Material	Polyester resin, glass-fibre-reinforced, dark grey, similar to RAL 7024 Impact resistance ≥ 7 J Surface resistance ≤ 10 <sup>9</sup> Ω Flame-resistant according to IEC/EN 60695, UL 94, ASTM D635
Degree of protection	IP66
Rated operational voltage	max. 1100 V AC / DC (depending on the terminal type and the explosion protected components that are used)
Rated voltage	max. 1100 V AC / DC (depending on the terminal type and the explosion protected components that are used)

**Selection Table**

Version	Components fitted						Order number	Art. no.	PS	Weight kg
	Line-up terminal									
		Cross section [mm <sup>2</sup> ]	Type	Number fitted	Max. possible number	PE/PA- connections				
 08243E00	Ex e	2.5/4	UK 3 N	1	6	4	<b>8146/1031-1TS35+1UT2,5</b>	<b>136603</b>	10	0.640
 08244E00	Ex e	2.5/4	UK 3 N	1	14	8	<b>8146/1041-1TS35+1UT2,5</b>	<b>136665</b>	10	0.730
		4/6	UK 5 N	1	12	8	<b>8146/1041-1TS35+1UT4</b>	<b>136667</b>	10	1.000
	Ex i	2.5/4	UK 3 N BU	1	14	8	<b>8146/2041-1TS35+1UT2,5</b>	<b>136666</b>	10	0.730
		4/6	UK 5 N BU	1	12	8	<b>8146/2041-1TS35+1UT4</b>	<b>136668</b>	10	0.700
 08245E00	Ex e	2.5/4	UK 3 N	1	19	2 x 7*	<b>8146/1051-1TS35+1UT2,5</b>	<b>136688</b>	10	1.060
		4/6	UK 5 N	1	16	2 x 7*	<b>8146/1051-1TS35+1UT4</b>	<b>136690</b>	10	1.000
	Ex i	2.5/4	UK 3 N BU	1	19	2 x 7*	<b>8146/2051-1TS35+1UT2,5</b>	<b>136689</b>	10	1.000
		4/6	UK 5 N BU	1	16	2 x 7*	<b>8146/2051-1TS35+1UT4</b>	<b>136691</b>	10	1.000
 08246E00	Ex e	4/4	MXK 4	1	28	2 x 14*	<b>8146/1051-2TS15+1MBK3/E-Z</b>	<b>136692</b>	10	1.070
	Ex i	2.5/2.5	MBK3/E-Z BU	1	32	2 x 14*	<b>8146/2051-2TS15+1MBK3/E-ZBU</b>	<b>136693</b>	10	1.070
 08247E00	Ex e	2.5/4	UK 3 N	1	27	2 x 7*	<b>8146/1061-1TS35+1UT2,5</b>	<b>136714</b>	10	1.400
		4/6	UK 5 N	1	23	2 x 7*	<b>8146/1061-1TS35+1UT4</b>	<b>136716</b>	10	1.350
	Ex i	2.5/4	UK 3 N BU	1	27	2 x 7*	<b>8146/2061-1TS35+1UT2,5</b>	<b>136715</b>	10	1.400
		4/6	UK 5 N BU	1	23	2 x 7*	<b>8146/2061-1TS35+1UT4</b>	<b>136717</b>	10	1.350
 08249E00	Ex e	4/4	MXK 4	1	46	2 x 14*	<b>8146/1061-2TS15+1MBK3/E-Z</b>	<b>136718</b>	10	1.460
	Ex i	2.5/2.5	MBK3/E-Z BU	1	54	2 x 14*	<b>8146/2061-2TS15+1MBK3/E-ZBU</b>	<b>136719</b>	10	1.460
 08250E00	Ex e	2.5/4	UK 3 N	1	49	2 x 14*	<b>8146/1S71-1TS35+1UT2,5</b>	<b>136738</b>	10	2.010
		4/6	UK 5 N	1	41	2 x 14*	<b>8146/1S71-1TS35+1UT4</b>	<b>136740</b>	10	2.000
	Ex i	2.5/4	UK 3 N BU	1	49	2 x 14*	<b>8146/2S71-1TS35+1UT2,5</b>	<b>136739</b>	10	2.010
		4/6	UK 5 N BU	1	41	2 x 14*	<b>8146/2S71-1TS35+1UT4</b>	<b>136741</b>	10	2.000
 08251E00	Ex e	4/4	MXK 4	1	82	2 x 14*	<b>8146/1S71-2TS15+1MBK3/E-Z</b>	<b>136742</b>	10	2.010
	Ex i	2.5/2.5	MBK3/E-Z BU	1	98	2 x 14*	<b>8146/2S71-2TS15+1MBK3/E-ZBU</b>	<b>136743</b>	10	2.010

Selection Table										
Version	Components fitted						Order number	Art. no.	PS	Weight
	Line-up terminal									
		Cross section [mm <sup>2</sup> ]	Type	Number fitted	Max. possible number	PE/PA-connections				kg
 08252E00	Ex e	2.5/4	UK 3 N	1	51	2 x 18*	8146 / 1081 - 1TS35+1UT2,5	136800	10	3.400
	Ex e	4/6	UK 5 N	1	43	2 x 18*	8146 / 1081 - 1TS35+1UT4	136802	10	3.370
	Ex i	2.5/4	UK 3 N BU	1	51	2 x 18*	8146 / 2081 - 1TS35+1UT2,5	136801	10	3.400
		4/6	UK 5 N BU	1	43	2 x 18*	8146 / 2081 - 1TS35+1UT4	136803	10	3.370
 08260E00	Ex e	2.5/4	UK 3 N	1	98	2 x 36*	8146 / 1081 - 2TS35+1UT2,5	136804	10	3.810
		4/6	UK 5 N	1	82	2 x 36*	8146 / 1081 - 2TS35+1UT4	136806	10	3.800
	Ex i	2.5/4	UK 3 N BU	1	98	2 x 36*	8146 / 2081 - 2TS35+1UT2,5	136805	10	3.810
		4/6	UK 5 N BU	1	82	2 x 36*	8146 / 2081 - 2TS35+1UT4	136807	10	3.800
 08248E00	Ex e	2.5/4	UK 3 N	1	147	2 x 36*	8146 / 1081 - 3TS35+1UT2,5	136808	10	4.200
		4/6	UK 5 N	1	123	2 x 36*	8146 / 1081 - 3TS35+1UT4	136810	10	4.130
	Ex i	2.5/4	UK 3 N BU	1	147	2 x 36*	8146 / 2081 - 3TS35+1UT2,5	136809	10	4.200
		4/6	UK 5 N BU	1	123	2 x 36*	8146 / 2081 - 3TS35+1UT4	136811	10	4.130
 08265E00	Ex e	2.5/4	UK 3 N	1	102	2 x 36*	8146 / 1093 - 1TS35+1UT2,5	136898	10	7.100
		4/6	UK 5 N	1	86	2 x 36*	8146 / 1093 - 1TS35+1UT4	136899	10	7.300
	Ex i	2.5/4	UK 3 N BU	1	102	2 x 36*	8146 / 2093 - 1TS35+1UT2,5	136902	10	7.100
		4/6	UK 5 N BU	1	86	2 x 36*	8146 / 2093 - 1TS35+1UT4	136903	10	7.300
 08263E00	Ex e	2.5/4	UK 3 N	1	196	2 x 36*	8146 / 1093 - 2TS35+1UT2,5	136900	10	7.300
		4/6	UK 5 N	1	164	2 x 36*	8146 / 1093 - 2TS35+1UT4	136901	10	7.500
	Ex i	2.5/4	UK 3 N BU	1	196	2 x 36*	8146 / 2093 - 2TS35+1UT2,5	136904	10	7.300
		4/6	UK 5 N BU	1	164	2 x 36*	8146 / 2093 - 2TS35+1UT4	136905	10	7.500
Additional text when ordering	Please specify the number and size of the cable entries, and to which sides of the enclosures they are to be fitted.									
Note	Prices include the enclosure fitted with mounting rails, PE or PA terminals and 1 line-up terminal of the type specified. Cable glands are inserted to order and charged separately. * 2 connections per terminal possible									

**Selection Table**




Enclosure size	Components fitted							Order number	Art. no.	PS	Weight kg		
	Line-up terminal												
		Cross section [mm <sup>2</sup> ]	Type	Number fitted	Max. possible number	PE/PA-connections	Cable glands						
Enclosure size 4; 8146/.04.	Ex e	2.5/4	UT 2.5	6	14	8	1 x M25 4 x Ø 4 - 6 mm 1 x M25 Ø 7 - 17 mm	<b>8146/1041-K0090</b>	<b>220241</b>	10	1.040		
			UT 2.5	12	14	8	1 x M25 4 x Ø 4 - 6 mm 1 x M25 Ø 7 - 17 mm	<b>8146/1041-K0093</b>	<b>220248</b>	10	1.040		
			UT 2.5	12	14	8	2 x M25 4 x Ø 4 - 6 mm 1 x M25 Ø 7 - 17 mm	<b>8146/1041-K0095</b>	<b>220250</b>	10	1.040		
Enclosure size 5; 8146/.05.	Ex e	2.5/4	UT 2.5	14	19	2 x 7*	without	<b>8146/1051-K0096</b>	<b>220269</b>	10	1.240		
			UT 2.5	16	19	2 x 7*	4 x M25 Ø 7 - 17 mm	<b>8146/1051-K0097</b>	<b>220270</b>	10	1.240		
		10	UT 10	4	--	2 x 10	1 x M32 Ø 18 - 25 mm, with strain relief 1 x M40 Ø 17 - 28 mm	<b>8146/1051-K0126</b>	<b>220337</b>	10	1.240		
Enclosure size 6; 8146/.06.	Ex e	2.5/4	UT 2.5	26	27	2 x 7*	4 x M25 Ø 7 - 17 mm	<b>8146/1061-K0098</b>	<b>220271</b>	10	1.650		
			UT 2.5	26	27	2 x 7*	without	<b>8146/1061-K0099</b>	<b>220272</b>	10	1.650		
			UT 2.5	24	27	2 x 7*	1 x M32 Ø 13 - 21 mm 12 x M20 Ø 6 - 13 mm	<b>8146/1061-K0100</b>	<b>220273</b>	10	1.650		
			UT 2.5	24	27	2 x 7*	3 x M32 Ø 4 x 5 - 7 mm 1 x M32 Ø 13 - 21 mm	<b>8146/1061-K0102</b>	<b>220283</b>	10	1.650		
			ST 2.5	24	27	2 x 7*	1 x M32 Ø 13 - 21 mm 12 x M20 Ø 6 - 13 mm	<b>8146/1061-K0105</b>	<b>220286</b>	10	1.650		
		16	UT 16	4	--	2 x 16	1 x M40 Ø 22 - 32 mm, with strain relief 1 x M50 Ø 23 - 35 mm	<b>8146/1061-K0127</b>	<b>220338</b>	10	1.650		
			UT 16	4	--	2 x 16	1 x M50 Ø 32 - 38 mm, with strain relief 1 x M50 Ø 23 - 35 mm	<b>8146/1061-K0128</b>	<b>220339</b>	10	1.650		
			Ex i	2.5/4	UT 2.5	24	27	2 x 7*	1 x M32 Ø 13 - 21 mm 12 x M20 Ø 6 - 13 mm	<b>8146/2061-K0101</b>	<b>220281</b>	10	1.680
					UT 2.5	24	27	2 x 7*	3 x M32 Ø 4 x 5 - 7 mm 1 x M32 Ø 13 - 21 mm	<b>8146/2061-K0103</b>	<b>220284</b>	10	1.680
					ST 2.5	24	27	2 x 7*	3 x M32 Ø 4 x 5 - 7 mm 1 x M32 Ø 13 - 21 mm	<b>8146/2061-K0104</b>	<b>220285</b>	10	1.680
ST 2.5	24	27			2 x 7*	1 x M32 Ø 13 - 21 mm 12 x M20 Ø 6 - 13 mm	<b>8146/2061-K0106</b>	<b>220287</b>	10	1.680			
Enclosure size 7; 8146/.07.	Ex e	2.5/4	UT 2.5	48	49	2 x 7*	1 x M40 Ø 17 - 28 mm 24 x M20 Ø 6 - 13 mm	<b>8146/1S73-K0108</b>	<b>220289</b>	10	2.640		
			ST 2.5	48	49	2 x 7*	1 x M40 Ø 17 - 28 mm 24 x M20 Ø 6 - 13 mm	<b>8146/1S73-K0111</b>	<b>220312</b>	10	2.640		
		4/6	UT 2.5	1	49	2 x 7*	without	<b>8146/1S73-K0113</b>	<b>220314</b>	10	2.640		
			35	UT 35	4	--	2 x 35	1 x M63 Ø 37 - 44 mm, with strain relief 1 x M50 Ø 23 - 35 mm	<b>8146/1S73-K0129</b>	<b>220340</b>	10	2.640	
			Ex i	2.5/4	UT 2.5	48	49	2 x 7*	1 x M40 Ø 17 - 28 mm 6 x M32 Ø 4 x 5 - 7 mm	<b>8146/2S71-K0107</b>	<b>220288</b>	10	2.410
		ST 2.5			48	49	2 x 7*	1 x M40 Ø 17 - 28 mm 6 x M32 Ø 4 x 5 - 7 mm	<b>8146/2S71-K0110</b>	<b>220311</b>	10	2.410	
		UT 2.5			48	41	2 x 7*	1 x M40 Ø 17 - 28 mm 24 x M20 Ø 6 - 13 mm	<b>8146/2S73-K0109</b>	<b>220290</b>	10	2.640	
		ST 2.5			48	49	2 x 7*	1 x M40 Ø 17 - 28 mm 24 x M20 Ø 6 - 13 mm	<b>8146/2S73-K0112</b>	<b>220313</b>	10	2.640	

Selection Table											
Enclosure size	Components fitted						Order number	Art. no.	PS	Weight	
	Line-up terminal										
	Cross section [mm <sup>2</sup> ]	Type	Number fitted	Max. possible number	PE/PA-connections	Cable glands					
Enclosure size 8; 8146/08.	Ex e	2.5/4	UT 2.5	1	51	2 x 18*	without	<b>8146/1083-K0114</b>	<b>220315</b>	10	4.780
			UT 2.5	60	98	2 x 18*	1 x M40 Ø 17 - 28 mm 30 x M16 Ø 4 - 9 mm	<b>8146/1083-K0116</b>	<b>220317</b>	10	4.780
			UT 2.5	60	98	2 x 18*	1 x M40 Ø 17 - 28 mm 24 x M20 Ø 6 - 13 mm	<b>8146/1083-K0118</b>	<b>220319</b>	10	4.780
			ST 2.5	60	98	2 x 18*	1 x M40 Ø 17 - 28 mm 30 x M16 Ø 4 - 9 mm	<b>8146/1083-K0121</b>	<b>220332</b>	10	4.780
			ST 2.5	60	98	2 x 18*	1 x M40 Ø 17 - 28 mm 24 x M20 Ø 6 - 13 mm	<b>8146/1083-K0123</b>	<b>220334</b>	10	4.780
	Ex i	2.5/4	UT 2.5	60	98	2 x 18*	1 x M40 Ø 17 - 28 mm 8 x M32 Ø 4 x 5 - 7 mm	<b>8146/2083-K0115</b>	<b>220316</b>	10	4.780
			UT 2.5	60	98	2 x 18*	1 x M40 Ø 17 - 28 mm 30 x M16 Ø 4 - 9 mm	<b>8146/2083-K0117</b>	<b>220318</b>	10	4.780
			UT 2.5	60	98	2 x 18*	1 x M40 Ø 17 - 28 mm 24 x M20 Ø 6 - 13 mm	<b>8146/2083-K0119</b>	<b>220320</b>	10	4.780
			ST 2.5	60	98	2 x 18*	1 x M40 Ø 17 - 28 mm 8 x M32 Ø 4 x 5 - 7 mm	<b>8146/2083-K0120</b>	<b>220331</b>	10	4.780
			ST 2.5	60	98	2 x 18*	1 x M40 Ø 17 - 28 mm 30 x M16 Ø 4 - 9 mm	<b>8146/2083-K0122</b>	<b>220333</b>	10	4.780
			ST 2.5	60	98	2 x 18*	1 x M40 Ø 17 - 28 mm 24 x M20 Ø 6 - 13 mm	<b>8146/2083-K0124</b>	<b>220335</b>	10	4.780

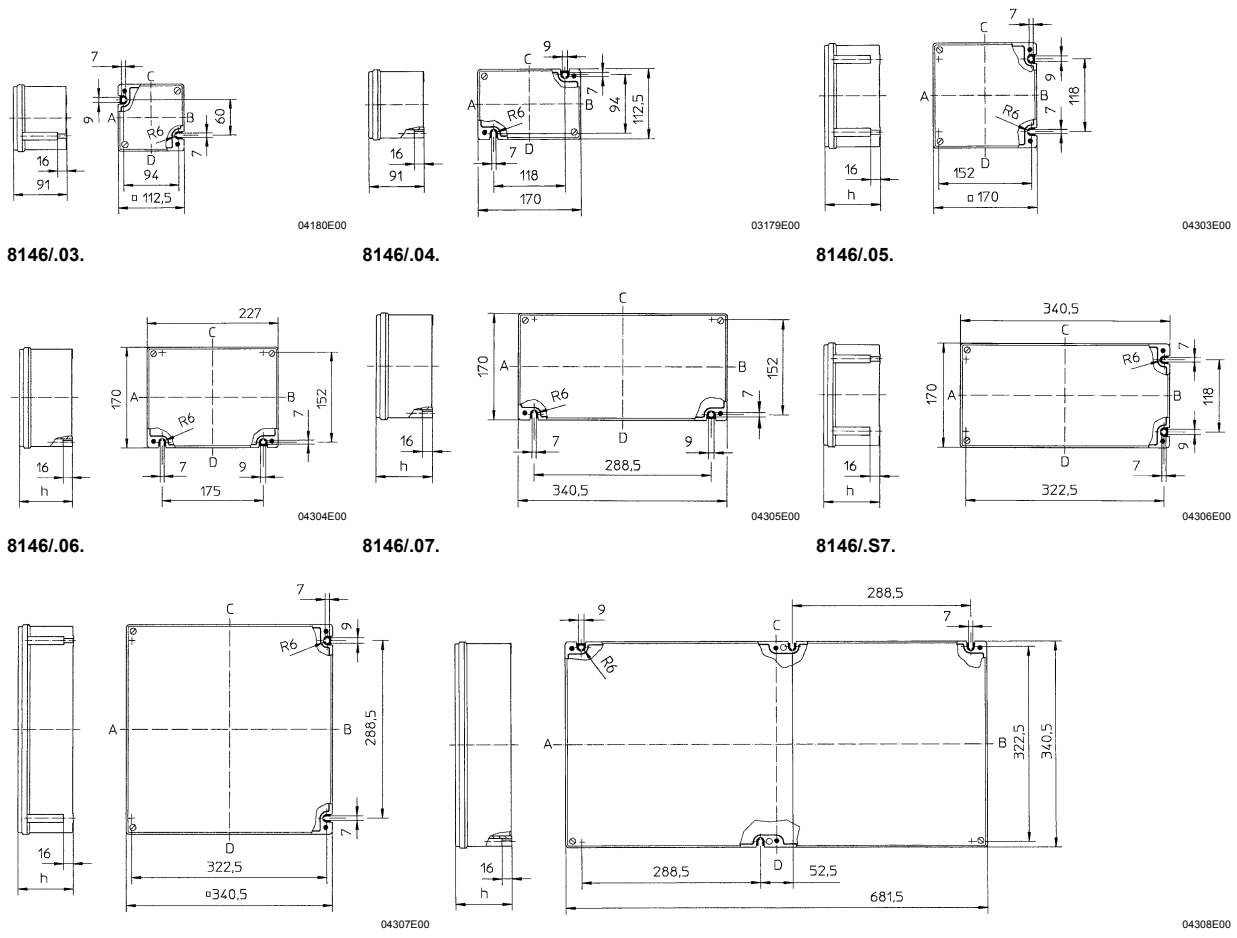
\* 2 connections per terminal possible

**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.

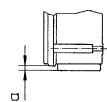
Cable gland	Enclosure size																			
 05864E00 Size	8146/.031		8146/.041		8146/.241/.242				8146/.051/.052				8146/.061/.062				8146/.071/.072			
	without flange		without flange		without flange		with flange		without flange		with flange		without flange		with flange		without flange		with flange	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M16 x 1.5	3	6	5	8	5	10	--	7	6	8	--	7	8	10	7	7	8	18	7	14
M20 x 1.5	2	2	3	5	3	7	--	3	4	6	--	3	6	7	3	3	6	14	3	6
M25 x 1.5	1	2	2	4	2	6	--	3	3	5	--	3	5	6	3	3	5	11	3	6
M32 x 1.5	1	1	1	2	1	3	--	2	2	3	--	2	3	3	2	2	3	6	2	4
M40 x 1.5	--	1	1	1	1	2	--	2	1	2	--	2	2	2	2	2	2	4	2	4
M50 x 1.5	--	1	1	1	1	2	--	--	1	1	--	--	1	2	--	--	1	3	--	--
 05864E00 Size	8146/.073/.075				8146/.S71				8146/.S73				8146/.081/.082							
	without flange		with flange		without flange		with flange		without flange		with flange		without flange		with flange					
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D				
M16 x 1.5	20	45	12	32	6	20	--	14	13	50	--	32	18	20	14	14				
M20 x 1.5	13	28	9	19	4	16	--	6	9	32	--	19	14	16	6	6				
M25 x 1.5	10	22	6	14	3	13	--	6	8	26	--	14	11	13	6	6				
M32 x 1.5	6	12	4	10	2	7	--	4	4	15	--	10	6	7	4	4				
M40 x 1.5	4	8	2	5	1	5	--	4	2	10	--	5	4	5	4	4				
M50 x 1.5	2	6	1	3	1	4	--	--	1	7	--	3	3	4	--	--				
M63 x 1.5	1	3	1	2	--	--	--	--	1	4	--	2	--	--	--	--				
 05864E00 Size	8146/.083/.085/.086				8146/.091/.092				8146/.093/.095											
	without flange		with flanges		without flange		with flange		without flange		with flange									
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D								
M16 x 1.5	45	50	32	32	20	38	14	28	50	91	32	64								
M20 x 1.5	28	32	19	19	16	20	6	12	32	60	19	38								
M25 x 1.5	22	26	14	14	13	23	6	12	26	46	14	28								
M32 x 1.5	12	15	10	10	7	12	4	8	15	26	10	20								
M40 x 1.5	8	10	5	5	5	9	4	8	10	18	5	10								
M50 x 1.5	6	7	3	3	4	7	--	--	7	13	3	6								
M63 x 1.5	3	4	2	2	--	--	--	--	4	6	2	4								

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



8146/08.

8146/09.



04309E00

Flange thickness [mm]	Dim.a [mm]
2.8	7
5.8	10

Additional dimension for flange mounting

Enclosure	Enclosure height 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