

Aluminium distribution boxes

Description

Aluminium distribution boxes have proven to be an excellent solution for encapsulating and shielding components and modules in electronic and pneumatic engineering. Bottom and lid of the distribution boxes come with earthing screws for the connecting of the protective conductor. Mounting threads in the bottom section, fixing holes outside of the sealed space.

The same high quality explosion-proofed enclosures are used in hazardous areas by inflammable dust (Zone 21 and 22). By means of the heating calculation according to the supplement to the test certificate and a separate IP-protection test, the basic requirements of the "protection through enclosure" type of protection are met.

Installation instructions

The installer must make sure that the enclosure used is suitable for the corresponding field of application. This means that the marking must correspond to the classification of the Ex area. Also must the temperature class of the distribution box meet the respective requirements.

IP distribution box
EEx e distribution box
EEx i distribution box

07-5172-.../...
grey 07-5101-.../...
07-5102-.../...

Explosion protection

Ex protection type (according to EN 50014)

II 2G EEx e II T6 resp. T5
II 2G EEx e ia IIC T6 resp. T5
II 2D IP 6x T 80 °C

Ambient temperature ranges (special temperature range on request)

-55 °C to +40 °C at T6
-55 °C to +55 °C at T5

Certification For Zone 21 and Zone 22 (further certifications on request)

PTB 01 ATEX 1118
IBExU00ATEX1080

Technical data

Material

aluminium, die or shell casting,
AlSi 12, Mg < 6 thread -%

Colour/coating

RAL 7001, silver grey
special varnish and seawater-resistant
varnish on request

Lid screws (other models on request)

stainless steel, captive,
cross-head (+ -)

Standard seals

CR -20 °C to +80 °C
silicone -55 °C to +100 °C

Mechanical resistance (according to EN 50014)

impact energy 7 Nm

Protection class EN 60529/IEC 60529 (higher protection class on request)

IP 66

Rated voltage

max. 1 100 V



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EEx i distribution box

07-5172-.../....
07-5101-.../....
07-5102-.../....

Rail-mounted terminals/maximum number

Article no. Aluminium enclosure	Mini-terminal 07-7902-....		AKZ4 03-7112-0008		WDU 2.5 03-7111-0012		WDU 2.5 bl 03-7111-0012		WDU 4 03-7112-0015	
	TS *	Terminals per rail	TS *	Terminals per rail	TS *	Terminals per rail	TS *	Terminals per rail	TS *	Terminals per rail
07- [] [] [] [] -0580/6436	-	3	-	-	-	-	-	-	-	-
07- [] [] [] [] -0980/6436	-	7	-	-	-	-	-	-	-	-
07- [] [] [] [] -1500/6436	-	11	-	-	-	-	-	-	-	-
07- [] [] [] [] -0750/6436	1	5	1	7	-	-	-	-	-	-
07- [] [] [] [] -1250/8057	1	10	1	16	-	-	-	-	-	-
07- [] [] [] [] -1750/8057	1	14	1	22	-	-	-	-	-	-
07- [] [] [] [] -1221/2080	2	8	1	14	-	-	1	16	-	-
07- [] [] [] [] -1221/2090	2	8	1	14	-	-	1	16	-	-
07- [] [] [] [] -2201/2080	2	17	1	30	-	-	1	35	-	-
07- [] [] [] [] -2201/2090	2	17	1	30	-	-	1	35	-	-
07- [] [] [] [] -3601/2080	-	-	-	-	1	60	1	60	1	49
07- [] [] [] [] -1601/6090	-	-	2	18	1	24	1	23	1	20
07- [] [] [] [] -2601/6090	-	-	2	34	1	43	1	42	1	34
07- [] [] [] [] -3601/6090	-	-	-	-	1	60	1	62	1	50
07- [] [] [] [] -5601/6090	-	-	-	-	1	98	1	102	1	85
07- [] [] [] [] -2002/3011	-	-	3	25	2	30	3	30	2	25
07- [] [] [] [] -2802/3011	-	-	-	-	2	44	3	44	2	38
07- [] [] [] [] -3302/3011	-	-	-	-	2	56	3	53	2	46
07- [] [] [] [] -4002/3011	-	-	-	-	2	70	3	68	2	58
07- [] [] [] [] -6002/3011	-	-	-	-	2	108	2	109	1	90
07- [] [] [] [] -4003/1011	-	-	-	-	3	70	4	68	2	58
07- [] [] [] [] -6003/1011	-	-	-	-	2	110	3	110	2	91



Aluminum distribution boxes

External dimensions, earth bars, mounting plates

The table on this page applies to the following aluminium distribution boxes:

*IP distribution box
EEx e distribution box
EEx i distribution box*

*07-5172-.../...
07-5101-.../...
07-5102-.../...*

Article no. Aluminium-Gehäuse	External dimensions in mm			Earth bars/Mantle terminal				Mounting panel
	Length	Width	Height	Type	Order no.	Type	Order no.	Order no.
07- -0580/6436	58	64	36	SB 2	05-0012-0002	-	-	05-2105-0094
07- -0980/6436	98	64	36	SB 2	05-0012-0002	-	-	05-2105-0095
07- -1500/6436	150	64	36	SB 2	05-0012-0002	-	-	05-2105-0096
07- -0750/8057	75	80	57	SB 2	05-0012-0002	-	-	05-2105-0097
07- -1250/8057	125	80	57	SB 2	05-0012-0002	-	-	05-0105-0098
07- -1750/8057	175	80	57	SB 2	05-0012-0002	LS 4	-	05-0105-0099
07- -1221/2080	122	120	80	QS 3	05-0012-0002	LS 4	05-0012-0100	05-0105-0100
07- -1221/2090	122	120	90	QS 3	05-0012-0002	LS 9	05-0012-0100	05-0105-0100
07- -2201/2080	220	120	80	QS 3	05-0012-0091	LS 5	05-0012-0101	05-0105-0101
07- -2201/2090	220	120	90	QS 3	05-0012-0091	LS 5	05-0012-0101	05-0105-0101
07- -3601/2080	360	120	80	QS 3	05-0012-0091	LS 11	05-0012-0103	05-0105-0102
07- -1601/6090	160	160	90	QS 5	05-0012-0092	LS 16	05-0012-0010	05-0105-0103
07- -2601/6090	260	160	90	QS 5	05-0012-0092	LS 11	05-0012-0012	05-0105-0106
07- -3601/6090	360	160	90	QS 5	05-0012-0092	LS 11	05-0012-0014	05-0105-0105
07- -5601/6090	560	160	90	QS 5	05-0012-0092	LS 18	05-0012-0107	05-0105-0107
07- -2002/3011 07- -2002/3018	200	230	110	QS 7	05-0012-0098	LS 18	05-0012-0108	05-0105-0108
07- -2802/3011	280	230	110	QS 7	05-0012-0098	LS 18	05-0012-0109	05-0105-0109
07- -3302/3011 07- -3302/3018	330	230	110	QS 7	05-0012-0098	LS 18	05-0012-0110	05-0105-0110
07- -4002/3011	400	230	110	QS 7	05-0012-0098	LS 28	05-0012-0016	05-0105-0111
07- -6002/3011	600	230	110	QS 7	05-0012-0098	LS 28	05-0012-0111	05-0105-0112
07- -4003/1011 07- -4002/1018	400	310	110	QS 13	05-0012-0099	LS 28	05-0012-0016	05-0105-0115
07- -6003/1011 07- -6003/1018	600	310	110	QS 13	05-0012-0099	LS 28	05-0012-0111	05-0105-0116

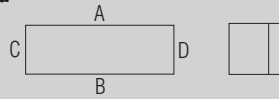
QS = diagonal strip/horizontal alignment, e.g.: LS 4 = 4 clamping points for 8 connections **LS** = horizontal strip/vertical strip, e.g.: QS 3 = 3 clamping points for 6.



Aluminum distribution box with lid

The table on this page applies to the following aluminium distribution boxes with lid:

**Cable glands/
maximum number**



IP distribution box 07-5172-.../...
EEx e distribution box 07-5101-.../...
EEx i distribution box 07-5102-.../...

Article no. Aluminium enclosure	Side	M 12 x 1.5	M 16x 1.5	M 16 x 1.5 extended	M 20 x 1.5	M 20 x 1.5 extended	M 25 x 1.5	M 32 x 1.5	M 40 x 1.5	M 50 x 1.5	M 63 x 1.5
07- [] [] [] [] -0580/6436	A/B C/D	1 -	1 -	1 -	- -	- -	- -	- -	- -	- -	- -
07- [] [] [] [] -0980/6436	A/B C/D	3 1	3 1	3 1	- -	- -	- -	- -	- -	- -	- -
07- [] [] [] [] -1500/6436	A/B C/D	6 1	5 1	4 1	- -	- -	- -	- -	- -	- -	- -
07- [] [] [] [] -0750/8057	A/B C/D	5 2	3 2	2 2	2 1	1 -	1 -	- -	- -	- -	- -
07- [] [] [] [] -1250/8057	A/B C/D	9 2	6 2	4 2	3 1	3 1	2 -	- -	- -	- -	- -
07- [] [] [] [] -1750/8057	A/B C/D	14 2	9 2	6 2	5 1	4 1	3 -	- -	- -	- -	- -
07- [] [] [] [] -1221/2080	A/B C/D	12 4	10 4	6 3	6 2	5 2	3 1	2 1	1 -	1 -	1 -
07- [] [] [] [] -1221/2090	A/B C/D	12 4	9 4	6 2	5 2	4 2	2 -	1 -	1 -	1 -	1 -
07- [] [] [] [] -2201/2080	A/B C/D	27 4	17 4	12 3	11 2	10 2	5 1	3 1	3 -	2 -	2 -
07- [] [] [] [] -2201/2090	A/B C/D	27 4	17 4	12 2	11 2	10 2	5 -	3 -	3 -	2 -	1 -
07- [] [] [] [] -3601/2080	A/B C/D	48 4	30 4	22 4	21 2	18 2	9 1	6 1	5 -	- -	- -
07- [] [] [] [] -1601/6090	A/B C/D	18 8	14 8	8 5	8 4	6 4	4 2	2 -	1 -	1 -	1 -
07- [] [] [] [] -2601/6090	A/B C/D	33 8	26 8	17 5	14 4	12 4	7 2	4 -	3 -	3 -	2 -
07- [] [] [] [] -3601/6090	A/B C/D	48 8	38 8	24 5	20 4	18 4	10 2	6 -	5 -	4 -	3 -
07- [] [] [] [] -5601/6090	A/B C/D	84 8	60 8	42 5	34 4	28 4	20 2	10 -	8 -	6 -	4 -
07- [] [] [] [] -2002/3011	A/B C/D	38 20	24 15	16 10	15 10	12 6	8 4	5 3	3 2	2 2	2 1
07- [] [] [] [] -2002/3018	A/B C/D	64 56	36 42	25 25	25 25	16 16	16 16	9 9	4 4	4 4	4 4
07- [] [] [] [] -2802/3011	A/B C/D	58 20	30 15	25 10	23 10	20 6	11 4	8 3	4 2	3 2	2 -
07- [] [] [] [] -3302/3011	A/B C/D	70 20	46 15	30 10	28 10	24 6	14 4	10 3	5 2	4 2	2 1
07- [] [] [] [] -3302/3018	A/B C/D	120 56	72 36	50 25	45 25	32 16	28 12	18 9	8 4	8 4	6 4
07- [] [] [] [] -4002/3011	A/B C/D	58 20	56 15	38 10	35 10	30 6	17 4	12 3	6 2	4 2	3 1
07- [] [] [] [] -6002/3011	A/B C/D	126 25	84 15	56 10	52 10	46 6	24 4	18 3	8 2	6 2	4 1
07- [] [] [] [] -4003/1011	A/B C/D	85 30	56 25	38 20	35 18	30 10	17 5	12 4	6 2	4 2	3 1
07- [] [] [] [] -4003/1018	A/B C/D	144 84	90 60	65 45	60 40	44 28	36 24	21 15	12 8	10 6	8 6
07- [] [] [] [] -6003/1011	A/B C/D	126 30	84 25	56 20	52 18	46 10	24 5	18 4	8 2	6 2	4 1
07- [] [] [] [] -6003/1018	A/B C/D	208 84	132 60	90 45	90 40	80 28	56 18	30 15	16 8	16 6	12 6

Each enclosure side wall has only a limited number of gland entries to ensure the mechanical stability of the enclosure.