

CTB III stainless steel enclosures

Product introduction

Eaton's Crouse-Hinds is premier manufactures of high quality and robust enclosure/termination assemblies. They are specifically designed to meet the requirements of the most industrial and hazardous environmental. With over 30 years of experience in the design, engineering and manufacturing of enclosures and termination assemblies, Crouse- Hinds Series provides a proven, tried and tested solution to meet the toughest installation requirements.

The CTB range is an "ATEX" "IECEx""CU-TR" and "GB" certified explosion proof enclosure/termination solution available in various options of materials and finishes, fully complaint with the related impact, thermal and ingress protection requirements. It is also available in wide range of sizes ensuring we can meet a multitude of applications.



The 1/4 turn lock or the retained stainless steel slotted hex bolt fastenings provide a rapid means of achieving high integrity ingress protection (IP66/67) for reliable & rapid environmental protection.



The EPDM is a sealing gasket for excellent ingress protection IP66/67 with good recovery and re-sealing properties.



A special designed flat surface integral drainage channel prevents liquids or other solids contaminates from running in or falling into the enclosure when the door is opened. This design also prevents gasket from becoming broken when the door is tight closed.



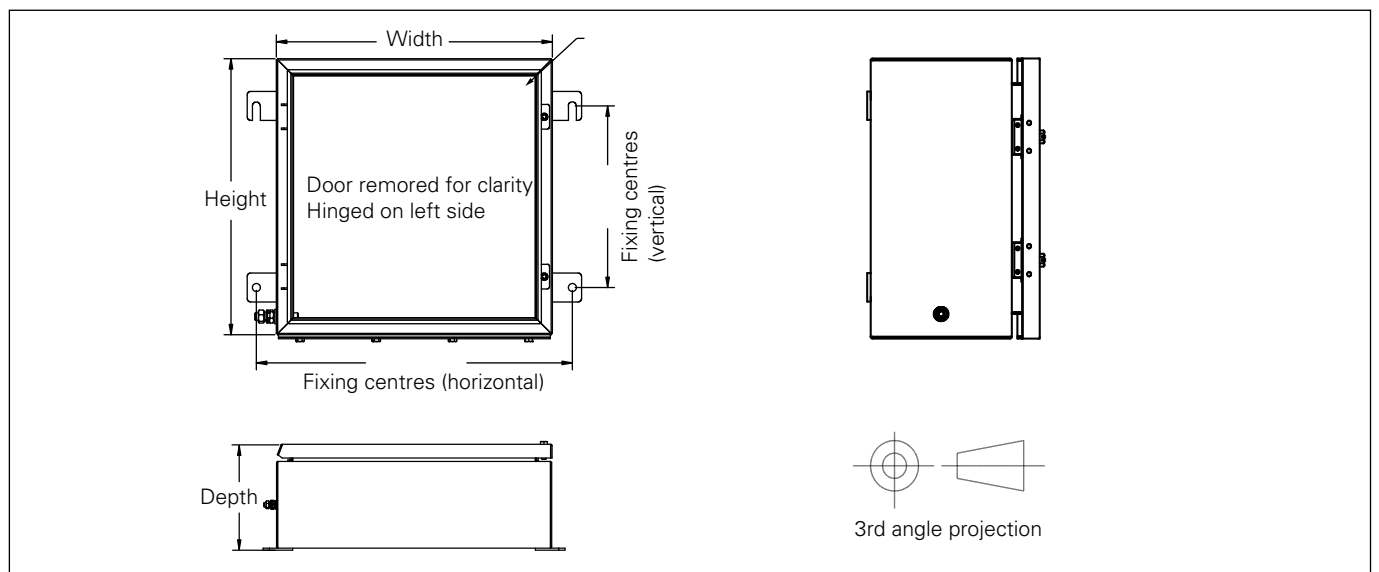
The enclosure is mounted by two or four horizontal 3mm thick heavy-duty surface welded stainless steel lugs. These provide a rapid, secure and reliable means of enclosure installation.

CTB III stainless steel enclosures

Technical data

EC-type examination certificate	Baseefa15ATEX0055 (CN) / Baseefa15ATEX0127X (KR)
IECEX-certification of conformity	IECEX BAS 15.0023X (CN) / IECEX BAS 15.0088X (KR)
GB-certification of conformity	GYB15.1336
Marking acc. to ATEX	Ex e II 2 G Ex e IIC T5/T6 Gb, Ex e ia IIC T5/T6 Gb, Ex ia IIC T5/T6 Gb Ex tb II 2 D Ex tb IIIC T95°C/T80°C Db
Marking acc. to GB	Ex e IIC T5/T6 Gb, Ex e ia IIC T5/T6 Gb, Ex ia IIC T5/T6 Gb Ex td A21 IP66 T80°C/T95°C
Marking acc. to IECEX	Ex e IIC T5/T6 Gb, Ex e ia IIC T5/T6 Gb, Ex ia IIC T5/T6 Gb Ex tb IIIC T95°C/T80°C Db
Material/Finish	316L stainless steel (1.4404 to EN10088) 304 stainless steel (1.4301 to EN10088) Electro chemical polish or powder coating stainless steel box available to order
Gasket material	Standard: EPDM; optional: silicone rubber gasket
Door fastening	Captive stainless steel bolt or 1/4 turn lock (option) (lock material zinc alloy with chromium plated or SS316L on request) Stainless steel welding hinge
Door option mounting	Factory fitted padlock HASP
Enclosure thickness	Standard: 1.5mm; optional: 2mm
Enclosure mounting	4 external welded lugs
Internal equipment mounting	Terminal rail on welded nuts or TS20 rail inside
Gland plate	0-4 pieces for all sizes except CTB121209 and CTB151510, gland plate not available for these two type
Enclosure earth/ground	M6/M10 earth stud, stainless steel/brass material
Degree of protection	IP66
Ambient temperature range	T5: -35°C ~+55°C (EPDM gasket), -55°C ~+55°C (silicone rubber gasket); T6: -35°C ~+40°C (EPDM gasket), -55°C ~+40°C (silicone rubber gasket)
Operating temp range	-35°C ~+95°C (EPDM gasket), -55°C ~+145°C (silicone rubber gasket)
Impact resistance	7 J (Nm) / 10 J (Nm) to EN60014

CTB range enclosure-general arrangement



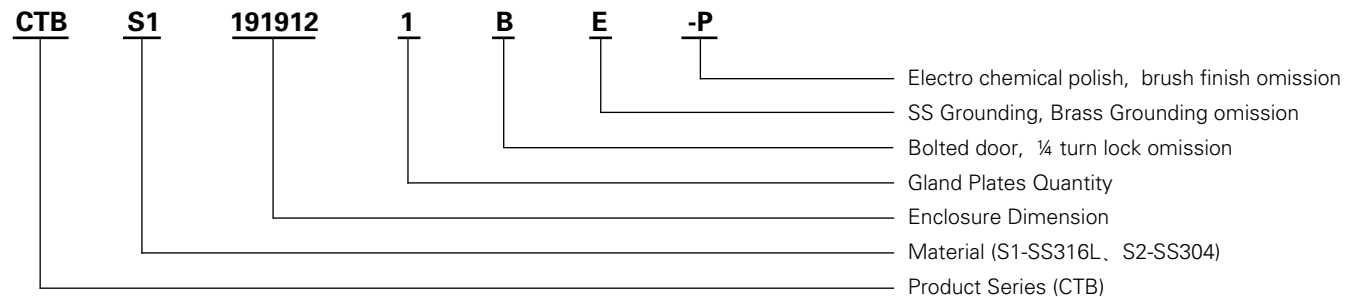
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CTB enclosure technical data

CCH part No.	CTB121209	CTB151510	CTB191912	CTB203015	CTB203020	CTB203814	CTB252514	CTB252520	CTB252524	CTB253515	
Enclosure dimensions, mm											
(Height x Width x Depth)	120*120*95	150*150*101	190*190*125	200*300*155	200*300*205	200*380*145	250*250*145	250*250*205	250*250*245	250*350*155	
Enclosure fixing centres, mm											
(Vertical x Horizontal)	95*145	70*175	110*215	120*325	120*325	120*405	150*275	150*275	150*275	150*375	
Number of chosen gland plates	0	0	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	
Material thickness, mm	Body	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	
	Lid	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	
Weight in kg (empty enclosure)	1.4	2.3	3.2	3.4	4.1	4	3.4	3.4	3.4	6.1	
Terminal mounting rail											
Rail fixing centres, mm vertical	60	90	130	140	140	300	170	170	170	170	
Overall rail length, mm	80	110	150	160	160	320	200	200	200	200	
Available glanding area, mm without GP											
Top & Bottom	117X63	147X73	187X93	297X123	297X123	377X113	247X113	247X173	247X213	347X123	
Left & Right	117X63	147X73	187X93	197X123	197X123	197X113	247X113	247X173	247X213	247X123	
Maximum entries with GP											
Top & Bottom	/	/	144X42	254X72	254X122	334X62	204X62	204X122	204X162	304X72	
M16	/	/	12	30	50	28	16	40	56	36	
M20	/	/	4	14	21	18	12	18	24	16	
M25	/	/	3	12	18	8	5	15	20	14	
M32	/	/	3	5	10	6	4	8	12	5	
M40	/	/	2	4	4	5	3	3	6	4	
M50	/	/	/	3	3	4	3	3	6	4	
M63	/	/	/	3	3	/	/	2	4	3	
Left & Right	/	/	67X42	77X72	77X122	/	127X62	127X122	127X162	127X72	
M16	/	/	6	9	15	/	10	25	35	15	
M20	/	/	2	4	6	/	6	9	12	6	
M25	/	/	1	4	6	/	3	9	12	6	
M32	/	/	1	1	2	/	2	4	6	2	
M40	/	/	1	1	1	/	2	2	4	2	
M50	/	/	/	1	1	/	1	1	2	1	
M63	/	/	/	/	/	/	/	/	2	1	
Terminal content											
2.5mm ² (6mm width)	1*10	1*16	1*22	1*40	1*40	1*52	2*32	2*32	2*32	2*32	
4mm ² (6.5mm width)	1*8	1*15	1*20	1*38	1*38	1*50	2*30	2*30	2*30	2*30	
6mm ² (8mm width)	1*6	1*12	1*16	1*30	1*30	1*40	2*24	2*24	2*24	2*24	
10mm ² (10mm width)	1*6	1*10	1*12	1*24	1*24	1*32	2*18	2*18	2*18	2*18	

Note: The type and the terminal quantity is just for your references, please contact engineers for more information.

Extended definition of part No.



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	CTB253520	CTB254015	CTB254020	CTB254024	CTB302015	CTB302020	CTB303015	CTB303020	CTB303024	CTB352515	CTB352520	CTB383824	CTB403015
	250*350*205	250*400*155	250*400*205	250*400*245	300*200*155	300*200*205	300*300*155	300*300*205	300*300*245	350*250*155	350*250*205	380*380*245	400*300*155
	150*375	150*425	150*425	150*425	180*225	180*225	180*325	180*325	180*325	230*275	230*275	250*435	264*356
	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4
	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2
	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2
	7.1	6.8	7.3	7.9	4	4.8	5.4	6.3	7	5.3	6.1	9.7	6.3
	170	170	170	170	220	220	220	220	220	270	270	300	320
	200	200	200	200	250	250	250	250	250	300	300	330	350
	347X173	397X123	397X173	397X213	197X123	197X173	297X123	297X173	297X213	247X123	247X173	377X213	297X123
	247X173	247X123	247X173	247X213	297X123	297X173	297X123	297X173	297X213	347X123	347X173	377X213	397X123
	304X122	254X72	354X122	354X162	154X72	154X122	254X72	254X122	254X162	240X72	204X122	334X162	254X72
	60	45	75	105	18	30	30	50	70	24	40	98	30
	24	20	30	40	8	12	14	21	28	12	18	36	14
	21	16	24	32	6	9	12	18	24	10	15	32	12
	10	6	12	18	3	6	5	10	15	4	8	18	5
	4	5	5	10	2	2	4	4	8	3	3	10	4
	4	4	4	8	2	2	3	3	6	3	3	8	3
	3	4	4	8	1	2	3	3	6	2	2	6	3
	127X122	127X72	127X122	127X162	154X72	154X122	154X72	154X122	154X162	204X72	204X122	204X162	254X72
	25	15	25	35	18	30	18	30	35	24	40	56	30
	9	6	9	12	8	12	8	12	12	12	18	24	14
	9	6	9	12	6	9	6	9	12	10	15	20	12
	4	2	4	6	3	6	3	6	6	4	8	12	5
	2	2	2	4	2	2	2	2	4	3	3	6	4
	1	1	1	2	2	2	2	2	2	3	3	6	3
	1	1	1	2	1	1	1	1	2	2	2	4	3
	2*32	3*32	3*32	3*32	1*40	1*40	2*40	2*40	2*40	2*48	2*48	3*52	2*56
	2*30	3*30	3*30	3*30	1*38	1*38	2*38	2*38	2*37	2*44	2*45	3*50	2*52
	2*24	3*24	3*24	3*24	1*30	1*30	2*30	2*30	2*30	2*36	2*36	3*40	2*42
	2*18	3*18	3*18	3*18	1*24	1*24	2*24	2*24	2*24	2*28	2*28	3*32	2*34

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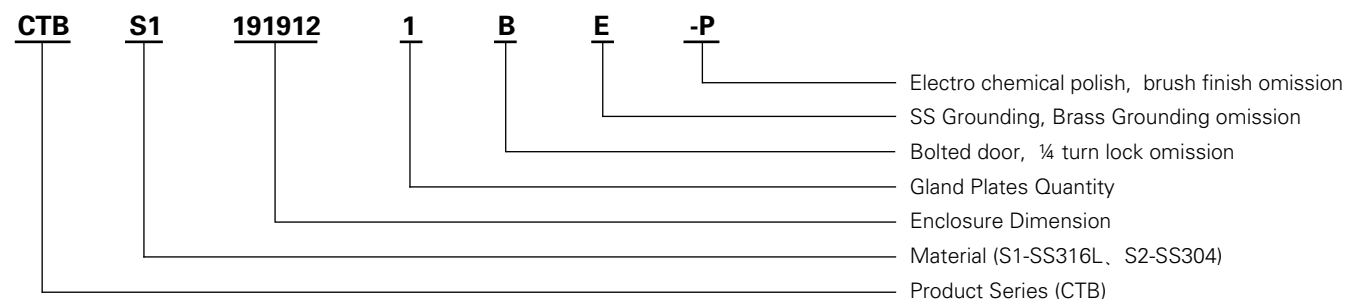
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CTB enclosure technical data

CCH part No.	CTB403020	CTB404015	CTB404020	CTB405015	CTB405020	CTB406015	CTB406020	CTB406024	CTB504015	CTB504020	
Enclosure dimensions, mm											
(Height x Width x Depth)	400*300*205	400*400*155	400*400*205	400*500*155	400*500*205	400*600*155	400*600*205	400*600*245	500*400*155	500*400*205	
Enclosure fixing centres, mm											
(Vertical x Horizontal)	264*356	264*456	264*456	264*556	264*556	264*656	264*656	264*656	350*456	350*456	
Number of chosen gland plates	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	
Material thickness, mm											
Body	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	
Lid	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	
Weight in kg (empty enclosure)	7.3	7.8	9	9.4	10.6	10.9	12.3	13.4	10.3	11.8	
Terminal mounting rail											
Rail fixing centres, mm vertical	320	320	320	320	320	320	320	320	420	420	
Overall rail length, mm	350	350	350	350	350	350	350	350	450	450	
Available glanding area, mm without GP											
Top & Bottom	297X173	397X123	397X173	497X123	497X173	597X123	597X173	597X213	397X123	397X173	
Left & Right	397X173	397X123	397X173	397X123	397X173	397X123	397X173	397X213	497X123	497X173	
Maximun entries with GP											
Top & Bottom	254X122	354X72	354X122	454X72	454X122	554X72	554X122	554X162	354X72	354X122	
M16	50	45	75	57	95	69	115	161	45	75	
M20	21	20	30	26	39	32	48	64	20	30	
M25	18	16	24	22	33	26	39	52	16	24	
M32	10	6	12	8	16	10	20	30	6	18	
M40	4	5	5	7	7	8	8	16	5	5	
M50	3	4	4	6	6	7	7	14	4	4	
M63	3	4	4	5	5	6	6	12	4	4	
Left & Right	254X122	254X72	254X122	254X72	254X122	254X72	254X122	254X162	354X72	354X122	
M16	50	30	50	30	50	30	50	56	45	75	
M20	21	14	21	14	21	14	21	24	20	30	
M25	18	12	18	12	18	12	18	20	16	24	
M32	10	5	10	5	10	5	10	12	6	18	
M40	4	4	4	4	4	4	4	6	5	5	
M50	3	3	3	3	3	3	3	6	4	4	
M63	3	3	3	3	3	3	3	4	4	4	
Terminal content											
2.5mm ² (6mm width)	2*56	3*56	3*56	3*56	3*56	3*56	3*56	3*56	3*72	3*72	
4mm ² (6.5mm width)	2*52	3*52	3*52	3*52	3*52	3*52	3*52	3*52	3*68	3*68	
6mm ² (8mm width)	2*42	3*42	3*42	3*42	3*42	3*42	3*42	3*42	3*54	3*54	
10mm ² (10mm width)	2*34	3*34	3*34	3*34	3*34	3*34	3*34	3*34	3*44	3*44	

Note: The type and the terminal quantity is just for your references, please contact engineers for more information.

Extended definition of part No.



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	CTB504027	CTB505015	CTB505020	CTB604015	CTB604020	CTB605015	CTB605020	CTB605027	CTB606015	CTB606020	CTB706027	CTB807027	CTBX08027
	500*400*275	500*500*155	500*500*205	600*400*155	600*400*205	600*500*155	600*500*205	600*500*275	600*600*155	600*600*205	700*600*275	800*700*275	1000*800*275
	350*456	350*556	350*556	435*456	435*456	435*556	435*556	435*556	435*656	435*656	466*656	534*756	666*856
	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4	0, 1, 2, 3, 4
	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2
	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2	1.5, 2
	13.7	10.6	11.9	10.3	11.6	12.3	13.7	15.8	15.4	17.1	22	26.3	37.6
	420	420	420	520	520	520	520	520	520	520	620	720	920
	450	450	450	550	550	550	550	550	550	550	650	750	950
	397X243	497X123	497X173	397X123	397X173	497X123	497X173	497X243	597X123	597X173	597X243	697X243	797X243
	497X243	497X123	497X173	597X123	597X173	597X123	597X173	597X243	597X123	597X173	697X243	797X243	997X243
	354X192	454X72	454X122	354X72	354X122	454X72	454X122	454X192	554X72	554X122	502X192	602X192	754X192
	120	57	95	45	75	57	95	152	69	115	184	200	248
	50	26	39	20	30	26	39	65	32	48	80	85	105
	32	22	33	16	24	22	33	44	26	39	52	56	72
	18	8	16	6	12	8	16	24	10	20	30	33	42
	15	7	7	5	5	7	7	21	8	8	24	27	36
	8	6	6	4	4	6	6	12	7	7	14	16	20
	8	5	5	4	4	5	5	10	6	6	12	12	16
	354X192	354X72	354X122	454X72	454X122	454X72	454X122	454X192	454X72	454X122	554X192	654X192	802X192
	120	45	75	57	95	57	95	152	57	95	184	216	264
	50	20	30	26	39	26	39	65	26	39	80	90	115
	32	16	24	22	33	22	33	44	22	33	52	60	76
	18	6	18	8	16	8	16	24	8	16	30	36	45
	15	5	5	7	7	7	7	21	7	7	24	30	36
	8	4	4	6	6	6	6	12	6	6	14	16	20
	8	4	4	5	5	5	5	10	5	5	12	14	16
	3*72	3*72	3*72	3*88	3*88	3*88	3*88	3*88	3*88	3*88	3*104	3*120	4*150
	3*68	3*68	3*68	3*84	3*84	3*84	3*84	3*84	3*84	3*84	3*100	3*116	4*140
	3*54	3*54	3*54	3*66	3*66	3*66	3*66	3*66	3*66	3*66	3*78	3*90	4*110
	3*44	3*44	3*44	3*54	3*54	3*54	3*54	3*54	3*54	3*54	3*64	3*74	4*90

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