



STAINLESS STEEL JUNCTION BOXES: APPLETON ASSE SERIES

ASSE Series Stainless Steel Enclosures

Increased Safety

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ASSE Series Stainless Steel Enclosures

Increased Safety

Zones 1 & 2 – 21 & 22
Gas (G) and Dust (D)

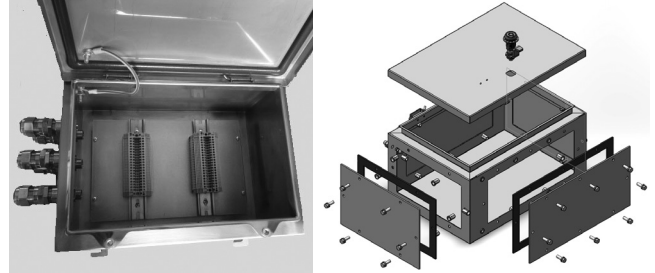
Highlights

Application

- Terminal junction box for electrical low voltage and instrumentation connections for use in hazardous areas
- Designed for use in Zone 1 or Zone 2 areas, where flammable gases or vapors are present either continuously or intermittently such as:
 - Petroleum
 - Chemical
 - Other industrial process facilities
- Ideal for wet or corrosive atmospheres.
- Designed for use in Zone 21 or Zone 22 areas, where flammable dusts are present either continuously or intermittently, such as:
 - Food processing
 - Dairy
 - Brewing
 - Pharmaceutical industry
 - Silos and other facilities

Features

- With the rating of IP66, it's applicable to the indoor and outdoor environments, such as sea and moist environments.
- Weld joint is smooth and continuous.
- Several sizes and specifications are available.
- Six depths are optional: 95mm, 150mm, 200mm, 300mm, 350mm and 400mm.
- The cabinet and cover are made of 304 or 316L stainless steel, and the thickness of 1.2mm, 1.5mm and 2.0mm can be provided according to customers' requirements.
- For enclosure size 220mm (H) x 180mm (W) and above the cover with hinges or Cam lock is available as optional.
- Cam lock is made of stainless steel with excellent corrosion resistance.
- For enclosure size 220mm (H) x 260mm (W) and above the cabinet with cable gland plates on the sides is available as an option.
- The cable gland plate is made of 3mm thickness 304 or 316L stainless steel and supplied with self-adhesive gasket in Silicon.
- The sealing strip is made of PUR materials without breakpoints, having superior IP rating (IP66), superb recovery and sealing performance. Silicon foaming gasket is optional.
- The double-headed earth studs made of stainless steel are provided to form integrated internal and external access, realizing reliable protection. Earth studs are located at the side of box for easy and quick connection.
- 4~6 quakeproof mounting brackets are welded on the back of box.
- Certified Increased Safety Terminals can be installed horizontally or vertically.
- Mounting plate in zinc plated steel or 304/316L is available as optional.



Materials

- Enclosure: 304 or 316L stainless steel, satin-finished after machining to ensure smooth surface
- Hardware: 304 or 316L stainless steel

Accessories

- Mounting plate
- Rail mounting
- Cam lock and key
- Inside pocket
- Refer to technical data to define permitted number of terminal blocks and cable entries acceptance

Options

- Removable gland plate: 3mm thickness 304 or 316L stainless steel.
- Mounting plate: Material could be zinc plated steel or 304/316L stainless steel.
- Cam lock (optional): Material is stainless steel and supplied with 1 key.
- Key to cam lock: Material is zinc plated steel.
- Nameplate.

ATEX or IECEx Certification

- Gas (Zone 1 and Zone 2)
 - Conforming to directive 2014/34/EU: II 2G
 - Type of protection:
 - Ex eb IIC T5/T6 Gb
 - Ex eb ia IIC T5/T6 Gb
 - Ex ia IIC T5/T6 Ga
 - Temperature class: T6 to T5
- Dust (Zone 21 and Zone 22)
 - Conforming to directive 2014/34/EU: II 2D
 - Type of protection:
 - Ex tb IIIC T80°C/T95°C Db IP66
 - Surface temperature: T80°C to T95°C
- Ambient temperature: -35°C~+40°C/+55°C
- ATEX certificate: 2460 Baseefa 16 ATEX 0107X
- IECEx certificate: IECEx BAS 16.0123X
- Ingress protection: According to EN/IEC 60529: IP66
- Impact resistance (shock): IK10

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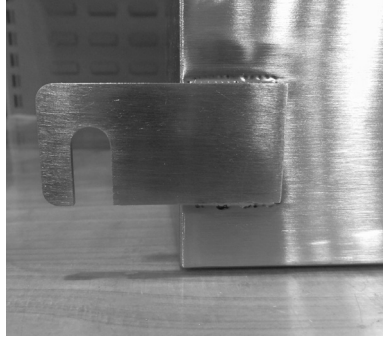
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Illustrated Features



Optional cam lock and key



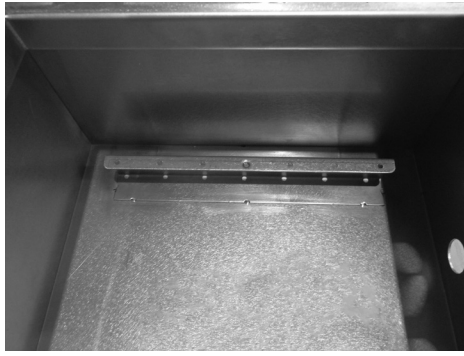
Mounting brackets welded on top, side or bottom positions



Earth/ground terminal from M6 to M10



Polyurethane poured-in-place door gasket



Support for DIN rail without mounting plate



Optional removable gland plate

Catalog Numbering Guide

ASSE	26	22	15	4	0	B
Series:	Box height (unit: mm):	Box width (unit: mm):	Box depth (unit: mm):	Material:	Cover type:	
ASSE=ASSE	12=120	12=120	95=95	4=SS 304	B=Only Bolt	
Series	18=180	18=180	15=150	6=SS 316L	H=Hinge + Bolt	
Increased	22=220	22=220	20=200		L=Cam Lock + Hinge	
Safety	26=260	26=260	25=250		Removable Gland Plate:	
Junction Box & Enclosure	37=370	37=370	30=300		0=None	
	56=560	56=560	35=350		1=1xBottom/Top	
	75=750	75=750	40=400		2=1xBottom+1xTop; or 1xLeft +1xRight	
	10=1000	80=800			3=1xLeft+1xRight+1xBottom/Top	
	12=1200	97=970			4=All 4 Sides	
					5=Others	

Note:
The hinge and cam lock type is provided for the box with specification of 220mm(H) x 180mm(W) or above for options.
The cable gland plate is provided for the box with specification of 220mm(H) x 260mm(W) or above for options.

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Enclosure Information

Catalog Number	Box Size (mm) (HxWxD)	Cover Type			Gland Plate	Material Thickness (mm)		
		Bolt	Hinge	Cam Lock		Cover	Cabinet	Gland Plate
ASSE121295xxx	120x120x95	√	-	-	-	≥1.2	≥1.2	-
ASSE181295xxx	180x120x95	√	-	-	-	≥1.2	≥1.2	-
ASSE181895xxx	180x180x95	√	-	-	-	≥1.2	≥1.2	-
ASSE221895xxx	220x180x95	√	√	√	-	≥1.2	≥1.2	-
ASSE221815xxx	220x180x150	√	√	√	-	≥1.2	≥1.2	-
ASSE222220xxx	220x220x200	√	√	√	-	≥1.2	≥1.2	-
ASSE222615xxx	220x260x150	√	√	√	√	≥1.2	≥1.2	≥3.0
ASSE262215xxx	260x220x150	√	√	√	√	≥1.2	≥1.2	≥3.0
ASSE223720xxx	220x370x200	√	√	√	√	≥1.2	≥1.2	≥3.0
ASSE263720xxx	260x370x200	√	√	√	√	≥1.2	≥1.2	≥3.0
ASSE372220xxx	370x220x200	√	√	√	√	≥1.2	≥1.2	≥3.0
ASSE372620xxx	370x260x200	√	√	√	√	≥1.2	≥1.2	≥3.0
ASSE373720xxx	370x370x200	√	√	√	√	≥1.2	≥1.2	≥3.0
ASSE375620xxx	370x560x200	√	√	√	√	≥1.5	≥1.2	≥3.0
ASSE377520xxx	370x750x200	√	√	√	√	≥1.5	≥1.2	≥3.0
ASSE563720xxx	560x370x200	√	√	√	√	≥1.5	≥1.2	≥3.0
ASSE565620xxx	560x560x200	√	√	√	√	≥1.5	≥1.2	≥3.0
ASSE567520xxx	560x750x200	√	√	√	√	≥1.5	≥1.2	≥3.0
ASSE753720xxx	750x370x200	√	√	√	√	≥1.5	≥1.2	≥3.0
ASSE755620xxx	750x560x200	√	√	√	√	≥1.5	≥1.2	≥3.0
ASSE755630xxx	750x560x300	√	√	√	√	≥1.5	≥1.2	≥3.0
ASSE108025xxx	1000x800x250	√	√	√	√	≥2.0	≥1.5	≥3.0
ASSE108030xxx	1000x800x300	√	√	√	√	≥2.0	≥1.5	≥3.0
ASSE108035xxx	1000x800x350	√	√	√	√	≥2.0	≥1.5	≥3.0
ASSE129730xxx	1200x970x300	√	√	√	√	≥2.0	≥1.5	≥3.0
ASSE129735xxx	1200x970x350	√	√	√	√	≥2.0	≥1.5	≥3.0
ASSE129740xxx	1200x970x400	√	√	√	√	≥2.0	≥1.5	≥3.0

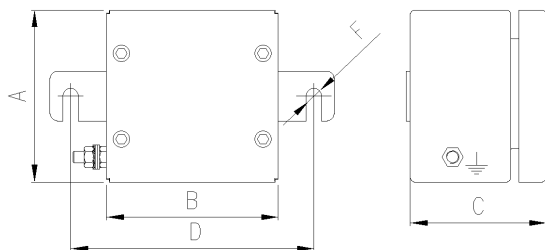
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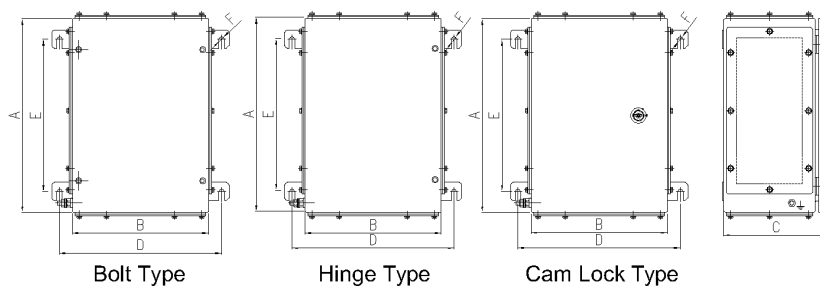
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Dimensions Information



Catalog Number	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	Bolt (qty)
ASSE121295xxx	120	120	95	170	2xØ11	4
ASSE181295xxx	180	120	95	170	2xØ11	4
ASSE181895xxx	180	180	95	230	2xØ11	4
ASSE182295xxx	180	220	95	270	2xØ11	4
ASSE182215xxx	180	220	150	270	2xØ11	4

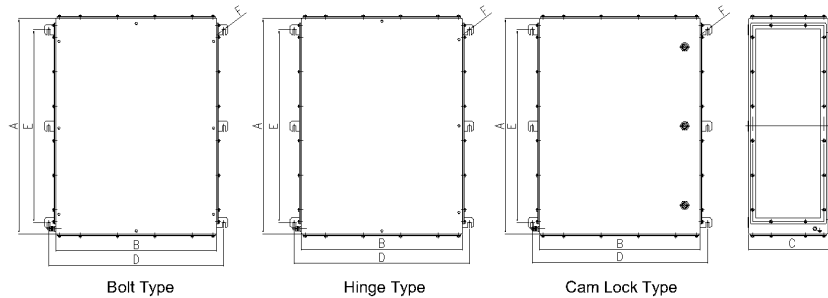


Catalog Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Fixer on the Cover		
							Bolt	Hinge	Cam Lock
ASSE221895xxx	220	180	95	230	140	4xØ11	4	2	1
ASSE221815xxx	220	180	95	230	140	4xØ11	4	2	1
ASSE222615xxx	220	260	95	310	140	4xØ11	4	2	1
ASSE222620xxx	220	260	95	310	140	4xØ11	4	2	1
ASSE262215xxx	260	220	150	270	180	4xØ11	4	2	1
ASSE262220xxx	260	220	200	270	180	4xØ11	4	2	1
ASSE262615xxx	260	260	150	310	180	4xØ11	4	2	1
ASSE262620xxx	260	260	200	310	180	4xØ11	4	2	1
ASSE372220xxx	370	220	200	270	290	4xØ11	4	2	1
ASSE372620xxx	370	260	200	310	290	4xØ11	4	2	1
ASSE373720xxx	370	370	200	420	290	4xØ11	4	2	1
ASSE563720xxx	560	370	200	420	480	4xØ11	6	3	2
ASSE563730xxx	560	370	300	420	480	4xØ11	6	3	2
ASSE565620xxx	560	560	200	610	480	4xØ11	6	3	2
ASSE565630xxx	560	560	300	610	480	4xØ11	6	3	2

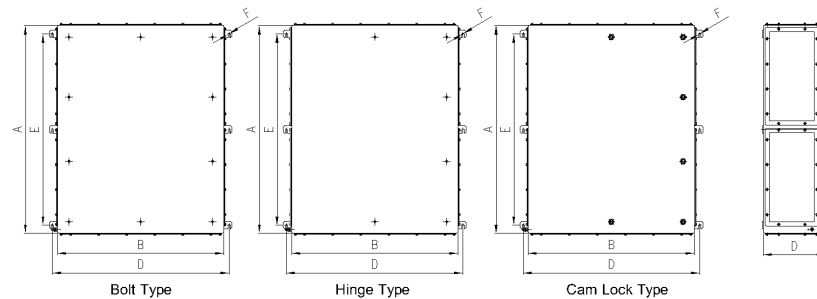
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Catalog Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Fixer on the Cover		
							Bolt	Hinge	Cam Lock
ASSE377520xxx	370	750	200	800	670	6xØ11	6	5	3
ASSE377530xxx	370	750	300	800	670	6xØ11	6	5	3
ASSE567520xxx	560	750	200	800	670	6xØ11	8	6	3
ASSE567530xxx	560	750	300	800	670	6xØ11	8	6	3
ASSE753720xxx	750	370	200	420	290	6xØ11	6	3	3
ASSE753730xxx	750	370	300	420	290	6xØ11	6	3	3
ASSE755620xxx	750	560	200	610	480	6xØ11	8	5	3
ASSE755630xxx	750	560	300	610	480	6xØ11	8	5	3



Catalog Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Fixer on the Cover		
							Bolt	Hinge	Cam Lock
ASSE108020xxx	1000	800	250	850	920	6xØ11	6	5	6
ASSE108030xxx	1000	800	300	850	920	6xØ11	6	5	6
ASSE108035xxx	1000	800	350	850	920	6xØ11	8	6	6
ASSE129730xxx	1200	970	300	1020	1120	6xØ11	6	3	8
ASSE129735xxx	1200	970	350	1020	1120	6xØ11	8	5	8
ASSE129740xxx	1200	970	400	1020	1120	6xØ11	8	5	8

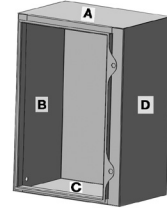
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Cable Entry Arrangement

Note: The information is only for reference.
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Catalog Number	M20		M25		M32		M40		M50		M63	
	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D
ASSE121295x0B	2	1	1	1	-	-	-	-	-	-	-	-
ASSE181295x0B	2	3	1	3	1	2	1	2	-	-	-	-
ASSE181895x0B	3	3	3	3	3	2	2	2	-	-	-	-
ASSE221895x0x	3	8	3	5	3	3	2	3	-	-	-	-
ASSE222220x0x	15	15	11	11	6	6	5	5	2	2	2	2
ASSE222615x0x	18	15	14	11	8	6	6	5	2	2	2	2
ASSE222615x4x	9	8	6	5	3	3	3	2	-	-	-	-
ASSE223720x0x	39	23	27	16	18	9	12	8	8	4	6	3
ASSE223720x4x	23	14	15	9	9	6	8	4	3	2	3	1
ASSE262215x0x	15	18	11	14	6	8	5	6	2	2	2	2
ASSE262215x4x	8	8	5	5	3	3	2	2	-	-	-	-
ASSE263720x0x	39	30	27	20	18	11	12	9	8	6	6	4
ASSE263720x4x	23	18	15	11	9	6	8	5	3	2	3	23
ASSE372220x0x	23	39	16	27	9	18	8	12	4	8	3	6
ASSE372220x4x	14	23	9	15	6	9	4	8	2	3	1	3
ASSE372620x0x	30	39	20	27	11	18	9	12	6	8	4	6
ASSE372620x4x	18	23	11	15	6	9	5	8	2	3	2	3
ASSE373720x0x	39	39	27	27	18	18	12	12	8	8	6	6
ASSE373720x4x	25	23	18	15	11	9	7	8	4	3	3	3
ASSE375620x0x	70	39	42	27	28	18	20	12	12	8	9	6
ASSE375620x4x	46	23	32	15	17	9	11	8	6	3	5	3
ASSE375630x0x	94	65	75	48	46	30	33	20	18	11	14	9
ASSE375630x4x	75	40	57	28	33	18	24	13	15	6	11	5
ASSE377520x0x	81	39	53	27	40	18	27	12	15	8	11	8
ASSE377520x4x	60	23	41	15	24	9	19	8	9	3	7	3
ASSE377530x0x	120	65	95	48	64	30	42	20	25	11	18	9
ASSE377530x4x	102	40	70	28	44	18	32	13	20	6	14	5
ASSE563720x0x	39	56	27	42	18	28	12	20	8	12	6	9
ASSE563720x4x	25	38	18	29	11	15	7	12	4	6	3	5
ASSE563730x0x	65	94	48	75	30	46	20	33	11	18	9	14
ASSE563730x4x	50	60	32	52	20	28	16	20	9	12	5	8

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Catalog Number	M20		M25		M32		M40		M50		M63	
	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D
ASSE565620x0x	65	56	42	42	28	28	20	20	12	12	9	9
ASSE565620x4x	46	38	32	29	17	15	11	12	6	6	5	5
ASSE565630x0x	94	94	75	75	46	46	33	33	18	18	14	14
ASSE565630x4x	75	70	57	52	33	28	24	20	15	12	11	8
ASSE567520x0x	81	56	53	42	40	28	27	20	15	12	11	9
ASSE567520x4x	60	38	41	29	24	15	19	12	9	6	7	5
ASSE567530x0x	120	94	95	75	64	46	42	33	25	18	18	14
ASSE567530x4x	102	70	70	52	44	28	32	20	20	12	14	8
ASSE753720x0x	39	81	27	53	18	40	12	27	8	15	6	11
ASSE753720x4x	25	53	18	36	11	21	7	18	4	8	3	7
ASSE753730x0x	65	120	48	95	30	64	20	42	11	25	9	18
ASSE753730x4x	50	95	32	72	20	46	16	28	9	18	5	12
ASSE755620x0x	65	81	42	53	28	40	20	27	12	15	9	11
ASSE755620x4x	46	53	32	36	17	21	11	17	6	8	5	7
ASSE755630x0x	94	120	75	95	46	64	33	42	18	25	14	18
ASSE755630x4x	81	95	57	72	33	42	24	28	15	18	11	14

Terminal Blocks Arrangement

Note: The information is only for reference.
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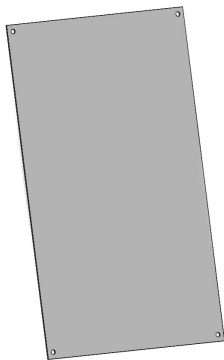
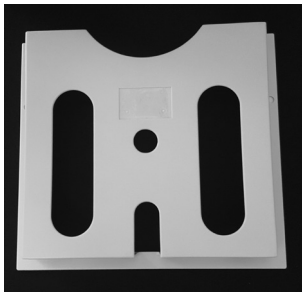
Enclosure Size	Max wattage/current (T6 at 40°C)		Capacity of Terminals (mm ²)								
	Wattage (W)	%	2.5	4	6	10	16	35	50	70	95
120x120x95	8.64	57.60	10	8	6	5	-	-	-	-	-
120x180x95	11.65	56.78	21	17	13	10	-	-	-	-	-
180x180x95	15.49	55.75	21	17	13	10	-	-	-	-	-
260x220x150	30.13	51.97	52	40	32	26	22	16	-	-	-
370x220x150	39.68	49.63	57	47	36	29	24	18	-	-	-
370x220x200	46.63	47.98	57	47	36	29	24	18	-	-	-
370x260x200	52.00	46.74	110	92	72	56	46	34	-	-	-
370x370x200	66.84	43.47	165	138	108	84	69	51	-	-	-
560x370x200	92.64	38.31	270	225	174	138	114	87	50	44	34
560x370x300	114.96	34.37	270	225	174	138	114	87	50	44	34
560x560x200	127.37	32.39	360	300	232	184	152	112	75	66	51
560x560x300	154.57	28.55	360	300	232	184	152	112	75	66	51
750x370x200	118.65	33.76	381	318	246	195	162	120	88	78	50
750x370x300	145.78	29.72	381	318	246	195	162	120	88	78	50
750x560x200	162.48	27.57	508	424	328	260	216	160	140	124	72
750x560x300	194.67	24.14	508	424	328	260	216	160	140	124	72

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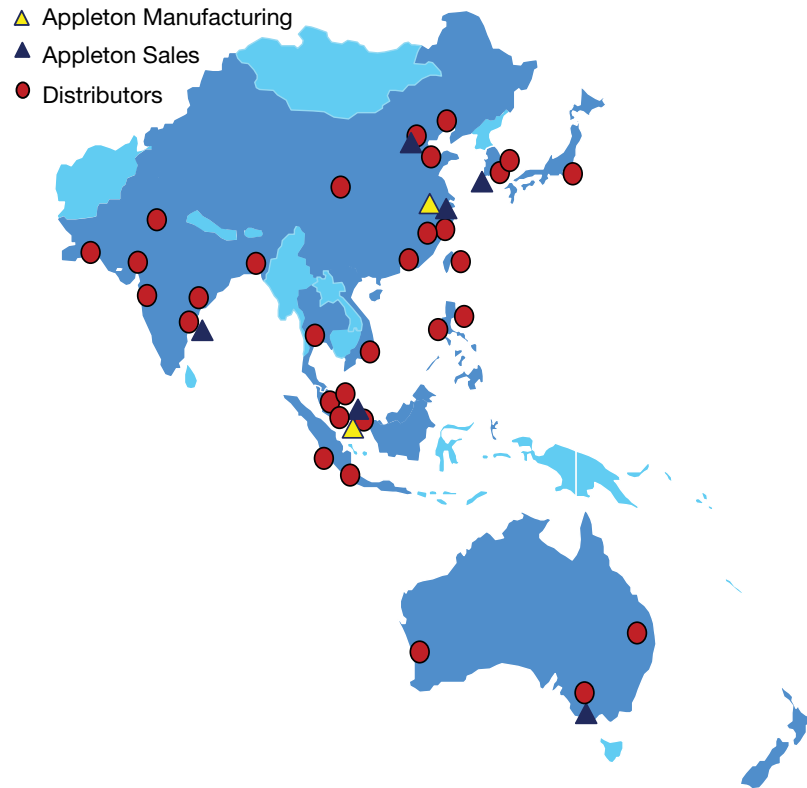
Mounting Accessories

Mounting Plate (Zinc Plated Steel)	Enclosure Dimensions (mm)	Mounting Dimensions (mm)	Standard Thickness (mm)	Catalog Number
	120x120	100x60	1.5	SH0200001-1
	120x180	160x60	1.5	SH0200001-2
	180x180	160x130	1.5	SH0200001-3
	260x220	200x160	1.5	SH0200001-4
	370x220	310x160	1.5	SH0200001-5
	370x260	310x200	1.5	SH0200001-6
	370x370	310x310	1.5	SH0200001-7
	560x370	500x310	2.0	SH0200001-8
	560x560	500x500	2.0	SH0200001-9
	750x370	690x500	2.0	SH0200001-10
	750x560	690x500	2.0	SH0200001-11
	Screw on the cover Material: Stainless steel			SH01700017
	Self-adhesive pocket for drawings External dimensions: 265x235mm Internal dimensions: 230x220x30mm			SH02200011
	External dimensions: 235x175mm Internal dimensions: 230x145x20mm			SH02200013
	Stainless steel cam lock with key			SH01700097

ASSE Series Stainless Steel Enclosures

Increased Safety

Appleton Group's Presence in Asia Pacific



APPLETON™

Appleton Group's Manufacturing in Asia Pacific

China

Location: Songjiang, Shanghai

Products: Lighting fixtures (LED, Fluorescent, HID, Weather Proof), Enclosures & Controls (Junction Boxes, Local Control Stations) in SS and GRP, Accessories

Certification: ISO 9001:2008, ATEX, IECEx



Singapore

Location: Ang Mo Kio, Singapore

Products: Exd/ Exde Enclosures (Panel Boards, Control Stations, Distribution Boards, Junction Boxes), Exe Enclosures (Junction Boxes, Local Control Stations) in SS and GRP, Switch Racks

Certification: UL, ATEX, IECEx



Emerson brings integrated manufacturing solutions to diverse industries worldwide. Our comprehensive product line, extensive experience, world-class engineering and global presence enable us to implement solutions that give our customers the competitive edge. Appleton is our premium line of lighting and electrical products for hazardous and industrial locations.

For over 150 years, our electrical product brands have been providing a rich tradition of long-term, practical, high quality solutions with applications ranging from the construction and safe operation of petrochemical and process plants to providing quality power that precisely controls automotive robotic production.

Engineers, distributors, contractors, electricians and site maintenance professionals around the world trust Emerson brands to make electrical installations safer, more productive and more reliable.

Global Head Quarters

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The Appleton Group business unit of Emerson is organized into three focused groups that provide distributors and end users expert knowledge and excellent service.

Electrical Construction Materials

This group is made up of the Appleton and O-Z/Gedney brands. They manufacture a broad range of electrical products including conduit and cable fittings, plugs and receptacles, enclosures and controls, conduit bodies and industrial and hazardous lighting. Whether the application is hazardous industrial or commercial, the electrical construction materials group has the products to meet your needs.

Power Quality Solutions

The SolaHD brand offers the broadest power quality line, including uninterruptible power supplies, power conditioners, voltage regulators, shielded transformers, surge protection devices and power supplies.

Heating Cable Systems

This group is made up of the EasyHeat and Nelson brands. They offer a broad range of electrical heating cable products for residential, commercial and industrial applications.

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