

Explosion Proof Junction Boxes

Application

Explosion Proof Junction Boxes are used where hazardous materials are handled or stored. These Enclosures may be used for:

- Monitoring & Signaling & Control Station
- Power Distribution Panels
- Terminals
- Splicing Wires
- Pull Boxes



Protection and Standards

- Execution:  II 2G Ex db IIC Gb T4~T6
- Ingress Protection: IP66
- Certificate No.: On Process
- Standards: EN 60079-0: 2012+A11:2013, EN 60079-1: 2014, EN 60529: 1992+A2:2013
ATEX Directive 2014/34/EU
- Ambient Temperature: -20° C ~ +55° C

Electrical Features

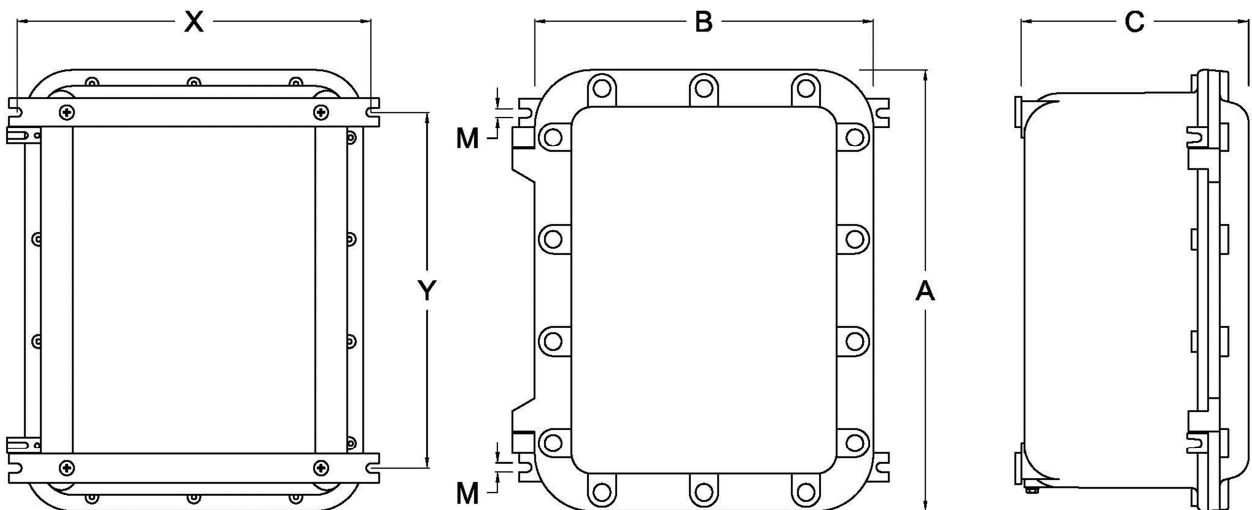
- Maximum Nominal Voltage: 1000 V
- Maximum Working Voltage: 750 V
- Dielectric Strength: 1000 V + 2 U (U= Working Voltage)
- Maximum Nominal Current: 800 A
- The nominal current is indicative for ambient temperature of installation up to +55°C
- Section of Terminals: from 1.5 mm² ~ 240 mm²
- All electrical equipment: MCCBs, MCBs, MCPs, fuses, contactors, indicators, selector switches, relays, transformers, module electronics and etc.

Mechanical Features

- Body and Cover: Copper-Free Aluminum Alloy
- Coating: Electrostatic Epoxy
- Cover Bolts: AISI 304 Stainless Steel, class A2/70
- O- Ring: Silicon
- Mounting Plate: Aluminum Sheet
- Earth Screws: M6/M8, AISI 304 Stainless Steel, class A2/70, on inside and outside of body

Reference Code and Dimension (mm):

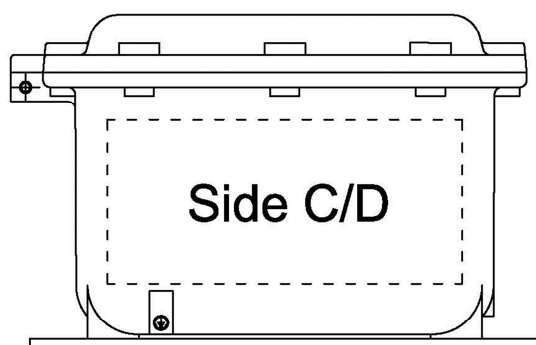
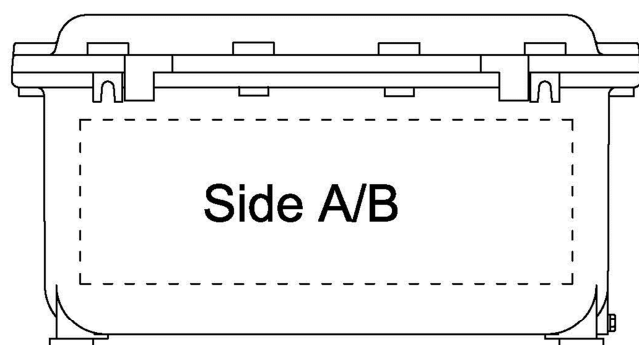
Ref. Code	Dimensions (mm)					
	Outside			Bracket Mounting		
	A	B	C	X	Y	M
FJB-1	325	182	160	210	250	9
FJB-2	390	290	228	320	315	11
FJB-3	460	360	239	390	360	11
FJB-4	560	412	243	440	465	11
FJB-5	642	442	276	470	545	11



Number and Size of Terminal (mm ²)															
REF. Code	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
FJB-1	2x52	2x42	34	26	20	16	14	12	4	4	-	-	-	-	-
FJB-2	3x70	3x56	3x46	3x42	3x28	2x22	2x20	18	14	12	10	6	6	5	5
FJB-3	3x82	3x64	3x54	3x40	3x32	3x26	3x24	2x20	16	14	12	8	8	6	6
FJB-4	3x106	3x86	3x70	3x52	3x42	3x36	3x32	2x26	22	20	18	14	14	12	12
FJB-5	3x128	3x102	3x85	3x64	3x50	3x42	3x38	2x32	26	24	20	16	16	14	14

Size & Thread Reference									
Size	1	2	3	4	5	6	7	8	9
NPT ANSI B1.20.1	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	3.1/2"
ISO Metric	20x1.5	25x1.5	32x1.5	40x1.5	50x1.5	63x1.5	75x1.5	90x1.5	100x1.5

Drilling of The Body																				
REF. Code	MAX. Quantity Per hole Type (Side A/B)										MAX. Quantity Per hole Type (Side C/D)									
	AREA	1	2	3	4	5	6	7	8	9	AREA	1	2	3	4	5	6	7	8	9
FJB-1	220x65	12	9	4	3	2	1	-	-	-	80x65	5	3	2	1	1	1	-	-	-
FJB-2	290x125	21	18	11	8	5	3	2	2	2	190x125	15	12	8	6	3	2	1	1	1
FJB-3	325x130	24	21	12	10	6	4	3	2	2	225x130	18	15	9	6	4	2	2	1	1
FJB-4	440x130	33	27	17	12	10	5	4	3	3	290x130	21	18	11	8	7	3	3	2	2
FJB-5	510x160	52	40	20	17	12	9	6	4	3	310x160	32	24	12	11	8	4	3	2	2



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Application

Increased Safety Junction Boxes are used where hazardous materials are handled or stored. These Enclosures may be used for:

- Terminals
- Splicing Wires
- Pull Boxes
- Control Station



Protection and Standards

- Execution:  II 2G Ex ed IIC T5, T6
- Ingress Protection: IP66
- Certificate No.: ECM 16 ATEX-B 356 X
- Standards: EN 60079-0: 2012, EN 60079-7: 2015, IEC 60529: 2013
ATEX Directive 2014/34/EU
- Ambient Temperature: -20° C ~ +55° C

Electrical Features

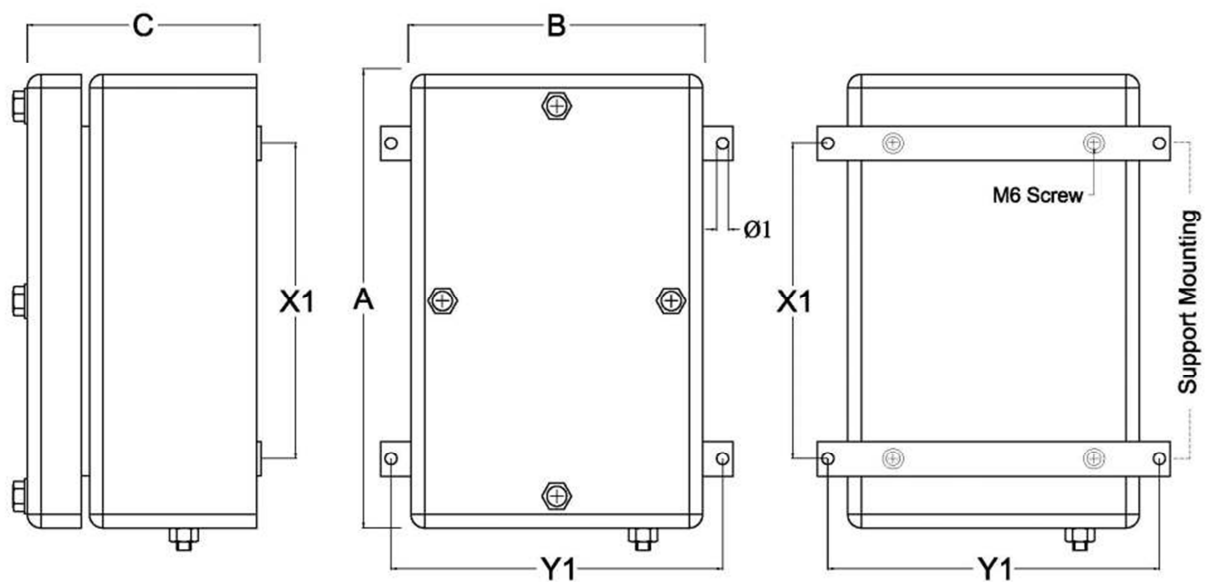
- Maximum Nominal Voltage: 1000 V
- Maximum Working Voltage: 750 V
- Dielectric Strength: 1000 V + 2 U (U= Working Voltage)
- Maximum Nominal Current: 400 A
The nominal current is indicative for ambient temperature of installation up to +55°C
- Section of Terminals: from 1.5 mm² ~ 240 mm²

Mechanical Features

- Body and Cover: AISI 316L Stainless Steel
- Coating: Electrostatic Epoxy
- Cover Bolts: AISI 304 Stainless Steel, class A2/70
- Bracket: AISI 304 Stainless Steel
- O- Ring: Silicon
- Mounting Plate: Aluminum Sheet
- Earth Screws: M6 / M8, AISI 304 Stainless Steel, class A2/70, on inside and outside of body

Reference Code and Dimension (mm)

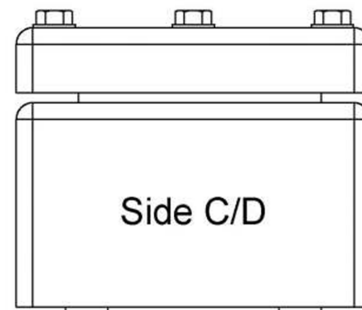
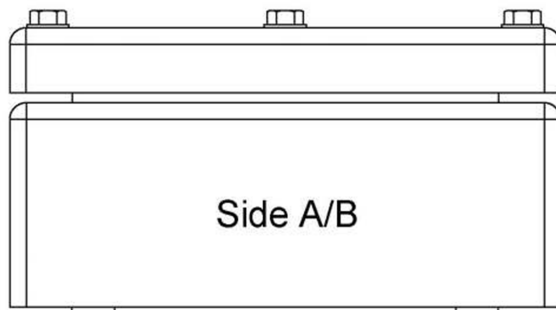
Ref. Code	Dimensions (mm)						Thickness
	Outside			Bracket Mounting			
	A	B	C	X1	Y1	Ø1	
ISJB-0SS	141	112	87	90	150	10	1.5
ISJB-1SS	168	108	85	110	150	10	1.5
ISJB-2SS	200	200	120	140	240	10	1.5
ISJB-3SS	305	228	112	230	270	10	1.5
ISJB-4SS	405	252	155	320	290	10	2
ISJB-5SS	505	365	202	430	415	10	2
ISJB-6SS	600	400	210	470	460	10	2



Number and Size of Terminal (mm ²)															
REF.CODE	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
ISJB-0SS	18	14	12	8	6										
ISJB-1SS	30	24	20	15	12	5	4								
ISJB-2SS	2x38	2x30	2x25	18	15	12	10	9							
ISJB-3SS	2x64	2x50	2x42	2x30	2x24	2x20	2x18	15	12						
ISJB-4SS	2x84	2x68	2x56	2x42	2x34	2x28	2x25	20	18	15	14	6	6	5	5
ISJB-5SS	3x112	2x90	2x74	2x55	2x44	2x36	2x32	27	22	20	18	9	9	8	8
ISJB-6SS	3x135	3x108	3x90	3x66	3x54	2x45	2x40	2x32	27	24	21	17	17	15	15

Size & Thread Reference									
Size	1	2	3	4	5	6	7	8	9
ISO7/1-ISO228 (NPT)	1/2"	3/4"	1"	1.1/4"	1.1/2"	2'	2.1/2"	3"	3.1/2"
ISO 965	20x1.5	25x1.5	32x1.5	40x1.5	50x1.5	63x1.5	75x1.5	90x1.5	100x1.5

Drilling of The Body																				
REF.CODE	MAX. Quantity Per Holes Type (Side A/ B)										MAX. Quantity Per Holes Type (Side C/D)									
	AREA	1	2	3	4	5	6	7	8	9	AREA	1	2	3	4	5	6	7	8	9
ISJB-0SS	55x100	3	2	1	1						55x70	2	1	1						
ISJB-1SS	55x130	4	3	2	1						55x70	2	1	1						
ISJB-2SS	75x145	7	6	3	2	1					75x145	7	6	3	2	1				
ISJB-3SS	65x255	12	8	3	2	1					65x180	8	6	2	1	1				
ISJB-4SS	115x355	28	22	12	10	5	3	3	2	2	115x200	16	12	8	6	3	2	2	1	1
ISJB-5SS	165x460	44	36	21	12	10	7	5	2	2	165x320	28	24	15	8	6	5	3	2	2
ISJB-6SS	170x560	56	48	30	16	12	9	7	4	4	170x360	36	28	16	10	8	5	3	2	2



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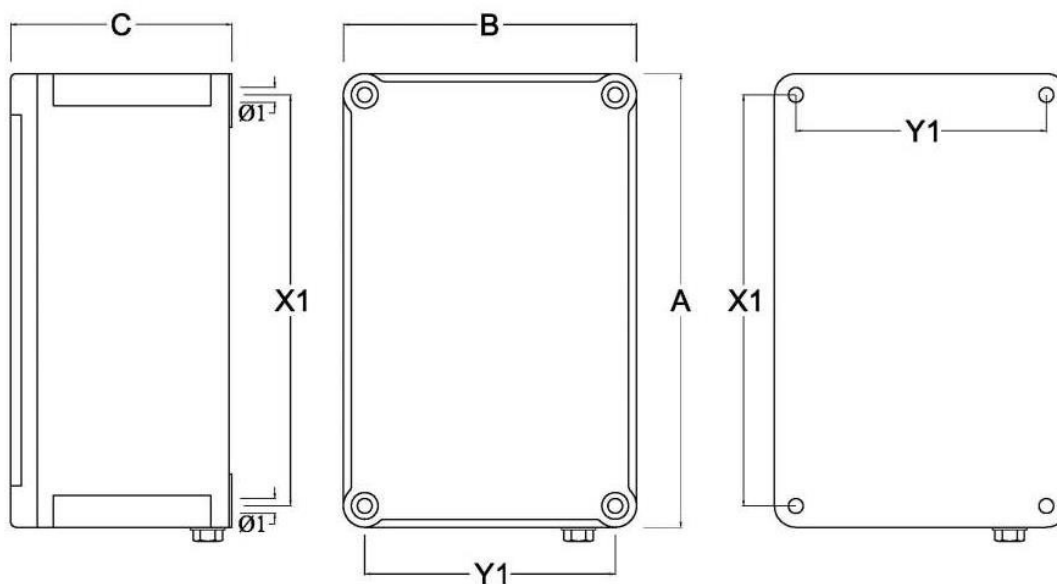
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- Section of Terminals: from 1.5 mm² ~ 240 mm²

Mechanical Features

- Body and Cover: Aluminum Alloy
- Coating: Electrostatic Epoxy
- Cover Bolts: AISI 304 Stainless Steel, class A2/70
- O- Ring: Silicon
- Mounting Plate: Galvanized Steel Sheet/ Aluminum Sheet
- Earth Screws: M6/M8, AISI 304 Stainless Steel, class A2/70, on inside and outside of body

Reference Code and Dimension (mm)

Ref. Code	Dimensions (mm)						
	Outside			Bracket Mounting			Thickness
	A	B	C	X1	Y1	Ø1	
ISJB-0AL	141	112	87	125	94	7	4
ISJB-1AL	168	108	85	154	94	7	4
ISJB-2AL	200	200	120	180	180	7	4
ISJB-3AL	305	228	112	285	210	7	4
ISJB-4AL	405	252	155	375	220	8	6
ISJB-5AL	505	365	202	475	335	8	10
ISJB-6AL	600	400	210	570	370	8	10



Number and Size of Terminal (mm ²)															
REF.CODE	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
ISJB-0AL	18	14	12	8	6										
ISJB-1AL	30	24	20	15	12	5	4								
ISJB-2AL	2x38	2x30	2x25	18	15	12	10	9							
ISJB-3AL	2x64	2x50	2x42	2x30	2x24	2x20	2x18	15	12						
ISJB-4AL	2x84	2x68	2x56	2x42	2x34	2x28	2x25	20	18	15	14	6	6	5	5
ISJB-5AL	3x112	2x90	2x74	2x55	2x44	2x36	2x32	27	22	20	18	9	9	8	8
ISJB-6AL	3x135	3x108	3x90	3x66	3x54	2x45	2x40	2x32	27	24	21	17	17	15	15

Size & Thread Reference									
Size	1	2	3	4	5	6	7	8	9
ISO7/1-ISO228 (NPT)	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	3.1/2"
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Drilling of The Body																				
REF.CODE	MAX. Quantity Per hole Type (Side A/B)										MAX. Quantity Per hole Type (Side C/D)									
	AREA	1	2	3	4	5	6	7	8	9	AREA	1	2	3	4	5	6	7	8	9
ISJB-0AL	55x100	3	2	1	1						55x70	2	1	1						
ISJB-1AL	55x130	4	3	2	1						55x70	2	1	1						
ISJB-2AL	75x145	7	6	3	2	1					75x145	7	6	3	2	1				
ISJB-3AL	65x255	12	8	3	2	1					65x180	8	6	2	1	1				
ISJB-4AL	115x355	28	22	12	10	5	3	3	2	2	115x200	16	12	8	6	3	2	2	1	1
ISJB-5AL	165x460	44	36	21	12	10	7	5	2	2	165x320	28	24	15	8	6	5	3	2	2
ISJB-6AL	170x560	56	48	30	16	12	9	7	4	4	170x360	36	28	16	10	8	5	3	2	2

