

Explosion Proof Junction Boxes

Application

Flame 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

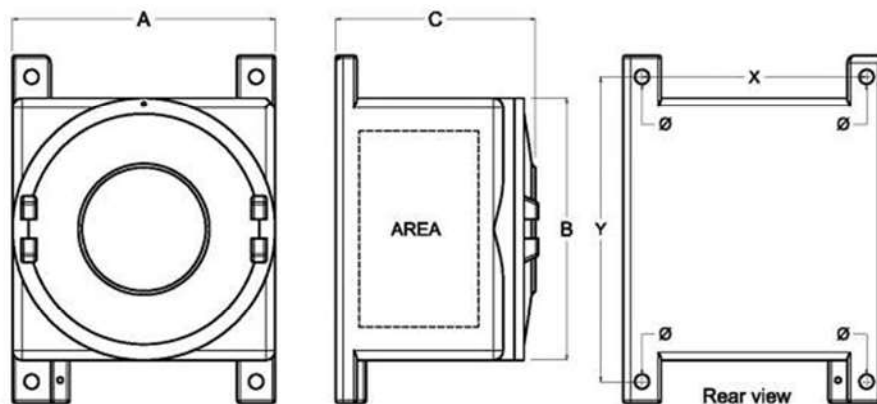
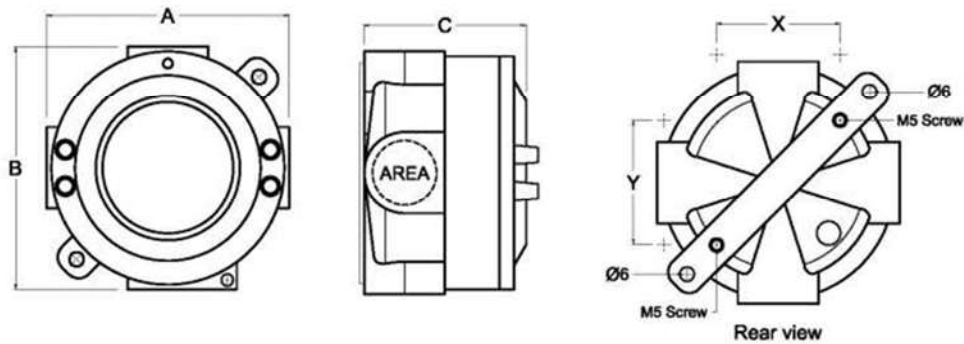
- Maximum Nominal Voltage: 1000 V
- Maximum Working Voltage: 750 V
- Dielectric Strength: 1000 V + 2 U (U= Working Voltage)
- Maximum Nominal Current: 800 A
- The nominal current is indicative for ambient temperature of installation up to +55°C
- Section of Terminals: from 1.5 mm² ~ 240 mm²
- All electrical 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	Ø
ECJB-00	102	102	67	52	52	5
ECJB-01	156	156	100	84	84	5
ECJB-10	130	130	136	107	156	9
ECJB-15	180	180	176	157	205	9
ECJB-20	230	230	171	203	257	11
ECJB-30	276	276	213	236	321	11
ECJB-40	430	430	260	390	485	13



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
ECJB-00	10	8	6	-	-	-	-	-	-	-	-	-	-	-	-
ECJB-01	22	16	14	12	8	-	-	-	-	-	-	-	-	-	-
ECJB-10	18	14	12	9	7	-	-	-	-	-	-	-	-	-	-
ECJB-15	26	20	17	12	10	8	7	6	-	-	-	-	-	-	-
ECJB-20	2x32	2x26	2x22	2x16	2x12	2x11	10	8	-	-	-	-	-	-	-
ECJB-30	2x46	2x36	2x30	2x22	2x18	2x14	2x12	10	9	8	-	-	-	-	-
ECJB-40	2x62	2x50	2x42	2x32	2x26	2x20	2x18	16	12	11	10	8	8	6	6

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 (One Side)									
	AREA	1	2	3	4	5	6	7	8	9
ECJB-00	Ø34	1	1	1	-	-	-	-	-	-
ECJB-01	Ø60	1	1	1	1	1	1	-	-	-
ECJB-10	90x70	4	3	2	1	1	-	-	-	-
ECJB-15	140x95	8	6	4	3	2	1	-	-	-
ECJB-20	190x90	10	8	6	3	2	2	1	-	-
ECJB-30	230x130	18	15	8	6	5	3	2	1	1
ECJB-40	380x130	30	24	14	10	9	5	3	3	2