

Enclosure: Junction Box with Terminals (Stainless Steel), JBE3 Series

Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22



Application

JBE3 junction boxes are designed for use in instrumentation, control, and distribution panels. They are suitable for housing Ex e increased safety equipment or Ex i intrinsically safe terminal blocks in hazardous areas, including Zones 1, 2, 21, and 22.

Specification

Housing material : Stainless steel, SS 304 or SS 316
1.2 mm thickness
Sealing gasket : Neoprene (CR)
Bolts : Stainless steel, SS 304 or SS 316

Electrical Rating

Rated voltage : up to 750 V (non-intrinsic safe circuit)
up to 375 V (intrinsic safe circuit)
Rated current : up to 240 A
(depending on type of terminal used)

Technical Data

Hazardous Area	Gas		Dust
Zones	0	1 & 2	21 & 22
Equipment Group/Category	II 1G	II 2G	II 2D
Symbol of Protection	Ex ia IIC T6/T5 Ga	Ex eb IIC T6/T5 Gb	Ex tb IIIC T80°C/ T95°C Db
Conformity to Standards	EN IEC 60079-0, EN IEC 60079-7, EN 60079-11, EN IEC 60079-31		
Ambient Temperature	-40°C to +65°C		
Index of Protection	IP66		
Entry Threads	NPT or Metric threads		
Mounting	Wall mount		
Rated Voltage	Max. 750 V AC, 50/60 Hz		

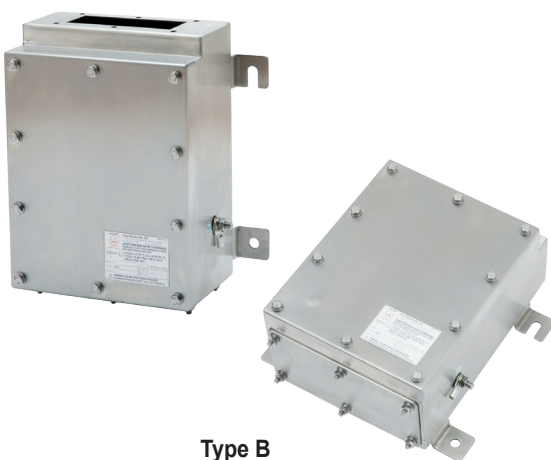
Catalogue Number Logic

JBE3	Type	Housing material	Size
Series	A Type A B Type B *	4 Stainless steel, SS 304 6 Stainless steel, SS 316	(see catalogue number table)

* Compatible with Control Box DCT1D only.



Type A



Type B

Entry	Entry plate drill hole
M20x1.5	Ø21.5 mm
M25x1.5	Ø27.0 mm
M32x1.5	Ø33.5 mm
M40x1.5	Ø42.5 mm
M50x1.5	Ø50.5 mm

Cat. No.	Maximum entries thread size (Bottom)				
	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5
JBE3□□-141410	2	2	—	—	—
JBE3□□-181812	3	2	2	1	—
JBE3□□-182512	3	2	2	1	—
JBE3□□-202512	3	3	2	2	—
JBE3□□-202016	6	5	2	2	1
JBE3□□-352016	12	9	4	3	2
JBE3□□-202515	6	5	2	2	1
JBE3□□-282015	9	7	3	2	2
JBE3□□-202516	6	5	2	2	1
JBE3□□-402016	14	11	4	4	3
JBE3□□-202520	9	5	3	3	1
JBE3□□-282520	14	7	5	4	2
JBE3□□-302516	6	4	2	2	1
JBE3□□-402516	14	11	4	4	3
JBE3□□-302515	10	4	3	3	2
JBE3□□-352511	6	5	4	3	—
JBE3□□-352521	18	14	7	6	3
JBE3□□-353016	12	9	4	3	3
JBE3□□-404020	21	11	8	7	3
JBE3□□-504020	27	14	11	9	4
JBE3□□-503516	18	14	6	5	4
JBE3□□-504019	27	14	11	5	4
JBE3□□-505018	27	14	11	5	4
JBE3□□-655018	36	19	15	6	5
JBE3□□-505021	27	21	11	9	4
JBE3□□-705021	39	30	16	13	5
JBE3□□-608020	33	26	13	11	5
JBE3□□-906020	51	41	21	17	7

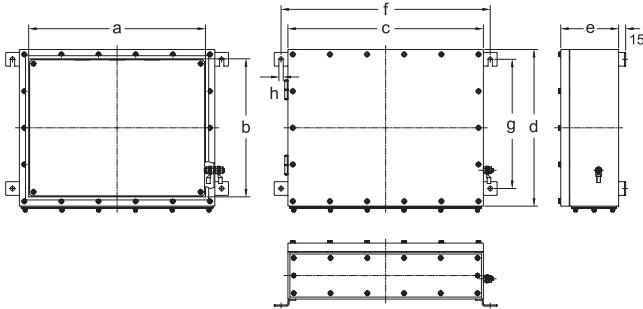
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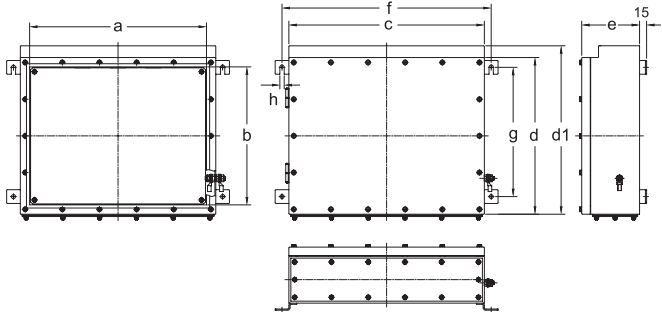
Zone 1 & 2 – 21 & 22

Dimensions

Junction box with terminals, Type A



Junction box with terminals, Type B



Cat. No.	Dimensions in mm							
	Internal		External			Mounting		
	a	b	c	d	e	f	g	h
JBE3A□-141410	90	90	140	140	107	175	75	11
JBE3A□-181812	130	130	180	180	125	215	115	11
JBE3A□-182512	130	200	180	250	125	215	185	11
JBE3A□-202512	150	200	200	250	125	235	185	11
JBE3A□-202016	150	150	200	200	164	235	135	11
JBE3A□-352016	300	150	350	200	164	385	135	11
JBE3A□-202515	150	200	200	250	155	235	185	11
JBE3A□-282015	230	150	280	200	155	315	135	11
JBE3A□-202516	150	200	200	250	164	235	185	11
JBE3A□-402016	350	150	400	200	164	435	135	11
JBE3A□-202520	150	200	200	250	206	235	185	11
JBE3A□-282520	230	200	280	250	206	315	185	11
JBE3A□-302516	150	200	200	250	166	235	185	11
JBE3A□-402516	350	200	400	250	166	435	185	11
JBE3A□-302515	250	200	300	250	151	335	185	11
JBE3A□-352511	300	200	350	250	113	385	185	11
JBE3A□-352521	300	200	350	250	211	385	185	11
JBE3A□-353016	300	250	350	300	161	385	235	11
JBE3A□-404020	350	350	400	400	202	435	335	11
JBE3A□-504020	450	350	500	400	202	535	335	11
JBE3A□-503516	450	300	500	350	160	535	285	11
JBE3A□-504019	450	350	500	400	194	535	335	11
JBE3A□-505018	450	450	500	500	184	535	435	11
JBE3A□-655018	600	450	650	500	184	685	435	11
JBE3A□-505021	450	450	500	500	212	535	435	11
JBE3A□-705021	650	450	700	500	212	735	435	11
JBE3A□-608020	550	750	600	800	207	635	735	11
JBE3A□-906020	850	550	900	600	207	935	535	11

Cat. No.	Dimensions in mm								
	Internal		External				Mounting		
	a	b	c	d	d1	e	f	g	h
JBE3B□-141410	90	90	140	140	162	107	175	75	11
JBE3B□-181812	130	130	180	180	202	125	215	115	11
JBE3B□-182512	130	200	180	250	272	125	215	185	11
JBE3B□-202512	150	200	200	250	272	125	235	185	11
JBE3B□-202016	150	150	200	200	222	164	235	135	11
JBE3B□-352016	300	150	350	200	222	164	385	135	11
JBE3B□-202515	150	200	200	250	272	155	235	185	11
JBE3B□-282015	230	150	280	200	222	155	315	135	11
JBE3B□-202516	150	200	200	250	269	164	235	185	11
JBE3B□-402016	350	150	400	200	219	164	435	135	11
JBE3B□-202520	150	200	200	250	280	206	235	185	11
JBE3B□-282520	230	200	280	250	280	206	315	185	11
JBE3B□-302516	150	200	200	250	280	166	235	185	11
JBE3B□-402516	350	200	400	250	280	166	435	185	11
JBE3B□-302515	250	200	300	250	280	151	335	185	11
JBE3B□-352511	300	200	350	250	280	113	385	185	11
JBE3B□-352521	300	200	350	250	280	211	385	185	11
JBE3B□-353016	300	250	350	300	330	161	385	235	11
JBE3B□-404020	350	350	400	400	429	202	435	335	11
JBE3B□-504020	450	350	500	400	429	202	535	335	11
JBE3B□-503516	450	300	500	350	377	160	535	285	11
JBE3B□-504019	450	350	500	400	434	194	535	335	11
JBE3B□-505018	450	450	500	500	537	184	535	435	11
JBE3B□-655018	600	450	650	500	537	184	685	435	11
JBE3B□-505021	450	450	500	500	534	212	535	435	11
JBE3B□-705021	650	450	700	500	534	212	735	435	11
JBE3B□-608020	550	750	600	800	848	207	635	735	11
JBE3B□-906020	850	550	900	600	648	207	935	535	11