

Explosion-proof Terminal Box

KBH03- Series

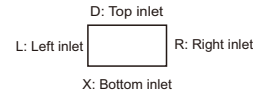
- II 2 G Ex eb IIC T6/T5 Gb
- II 1 G Ex ia IIC T6 Ga
- II 2 G Ex ib IIC T6 Gb
- II 2 D Ex tb IIIC T80/T95°C Db



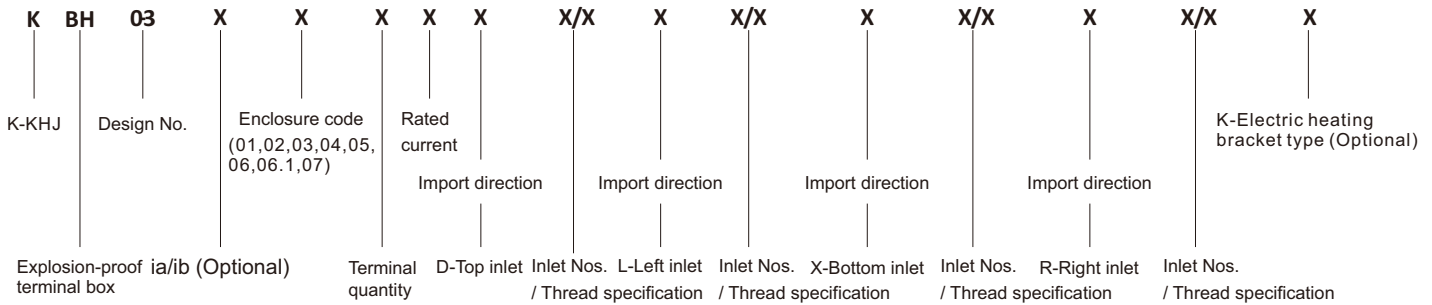
1. Application and Features

- Explosion protection
 - IECEx : IECEx SEV 22.0012X
 - ATEX : SEV 22 ATEX 0630 X
- Application in hazardous area
Zone 0, Zone 1 and Zone 2, Zone 21 and Zone 22
- This series of products have 4 types explosion protection (Ex eb, Ex ia, Ex ib and Ex tb IIIC), which can meet various requirements.
- GRP enclosure.
- There are 7 types of enclosure, easy to customize the current, terminals, size and direction of entry according to customer requirements.
- Stainless steel exposed fastener, anti dropping structure, easy installation and maintenance.

Electric heating bracket type (K)



2. Production Definition



Note: Please confirm the quantity, specification, and direction (position) of cable entry holes, if that is needed; No cable gland as default when delivery, which is supplied by users.

3. Technical Parameter

Ex marking	Gas	II 2 G Ex eb IIC T6/T5 Gb		Ex eb IIC T6/T5 Gb					
		II 1 G Ex ia IIC T6 Ga		Ex ia IIC T6 Ga					
		II 2 G Ex ib IIC T6 Gb		Ex ib IIC T6 Gb					
	Dust	II 2 D Ex tb IIIC T80/T95°C Db		Ex tb IIIC T80/T95°C Db					
Executive standards		IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC 60079-31 EN 60079-0, EN 60079-7, EN 60079-11, EN 60079-31							
Enclosure material		GRP (Polyester resin, glass fibre reinforced), anti-static							
Enclosure color		Black							
Brand of terminal		International brand							
Exposed fastener		Stainless steel							
Rated voltage	Ex e, Ex tb	Max 690V AC, 220V DC							
	Ex i, Ex tb	Max AC/DC36V							
Rated current	-	1.5mm ²	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	50mm ²
	Ex e, Ex tb	-	10A	16A	25A	40A	50A	100A	142A
	Ex i, Ex tb	5A	-	-	-	-	-	-	-
Degree of protection		IP66							
Ambient temperature	Ex e, Ex tb	-40°C~+40/55°C							
	Ex i, Ex tb	-40°C~+50/60/65°C							
Cable gland		KBM Series Explosion-proof Cable Glands is recommended.							

4.Selection Table(mm)

The maximum terminal cross-section is 35mm², and the maximum quantity of terminals that can be installed are shown in the table below.

Enclosure specification	Guideway×Terminal (specification and quantity)								Outlet direction	Cable gland quantity								Weight (kg)
	1.5 ²	2.5 ²	4 ²	6 ²	10 ²	16 ²	35 ²	50 ²		M16	M20	M25	M32	M40	M50	M63	—	
	UK2N	UK3N	UK5N	UK6N	UK10N	UK16N	UK35N	UK50N		—	G15	G20	G25	G32	G40	G50	G70	
	SAK15EN	SAK25EN	SAK4EN	SAK6EN	SAK10EN	SAK16EN	SAK35EN	SAK50EN		—	—	—	—	—	—	—	—	
01# 	1X12	1X12	1X10	1X8	—	—	—	—	D/X	3	3	2	1	1	—	—	1.2	
	—	—	—	—	—	—	—	—	L/R	2	2	2	1	1	—	—		
02# 	1X25	X25	1X20	1X15	—	—	—	—	D/X	7	5	3	3	2	1	—	1.5	
	—	—	—	—	—	—	—	—	L/R	2	2	2	1	1	—	—		
03# 	1X30	1X30	1X27	1X20	1X15	1X13	—	—	D/X	8	6	4	3	2	—	—	2.3	
	—	—	—	—	—	—	—	—	L/R	6	4	4	3	2	—	—		
04# 	1X49	1X49	1X41	1X31	1X24	1X20	—	—	D/X	12	10	8	4	3	3	—	3.3	
	2X39	2X40	2X31	2X18	—	—	—	—	L/R	7	5	3	3	2	2	—		
05# 	1X49	1X49	1X41	1X31	1X24	1X20	1X10	—	D/X	20	14	12	7	5	3	3	4.3	
	2X40	2X40	2X31	2X18	—	—	—	—	L/R	11	8	7	4	3	2	1		
06/06.1# 	1X102	1X51	1X43	1X32	1X26	1X21	1X17	1X8	D/X	20	14	12	7	5	3	3	6.1 /6.7	
	2X73	2X49	2X41	2X31	2X24	2X20	—	—	L/R	16	11	9	6	3	2	2		
07# 	1X102	1X102	1X86	1X64	1X52	1X42	1X34	1X16	D/X	32	22	18	12	6	4	4	11.3	
	2X102	2X98	2X82	2X62	2X48	2X40	—	—	L/R	20	14	12	7	5	3	3		

5.Outline and Installation(mm)

