

TL-EX-FH-BH03-Series Explosion-proof Terminal Box

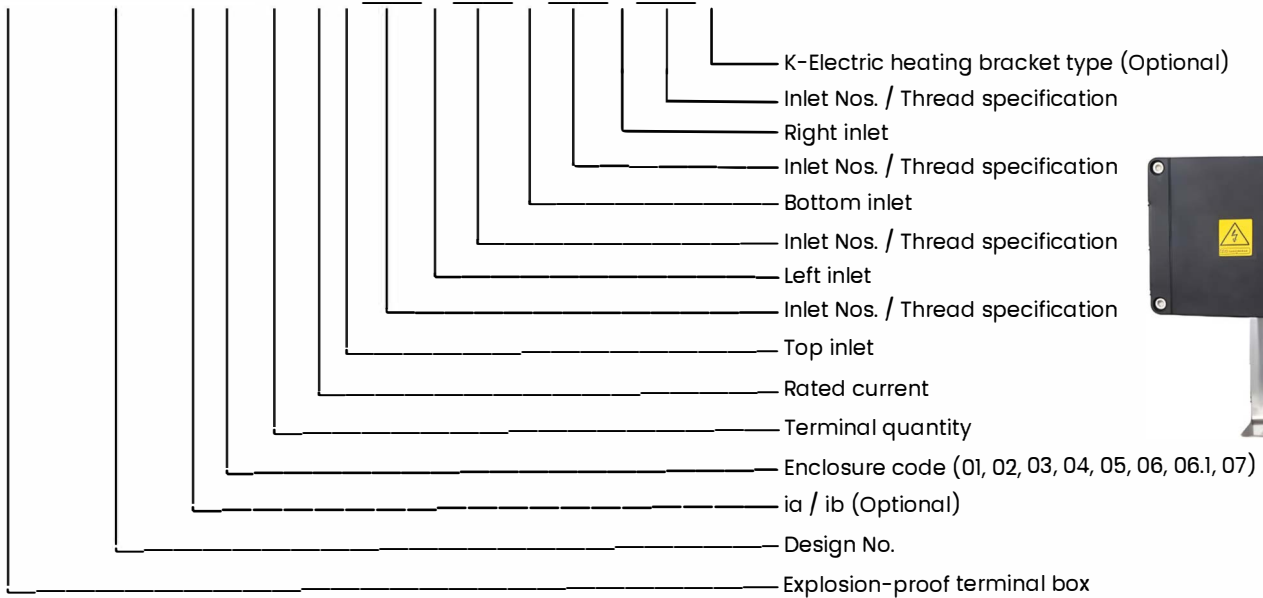
1 Application and Features

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



2 Nomenclature

TL-EX-FH- BH03 - □□ / □ / □□□ / □□□□ / □□ X □ / □ R □□□□



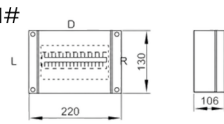
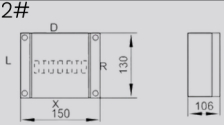
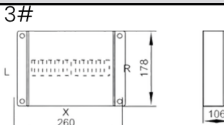
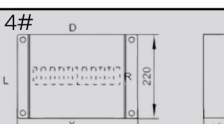
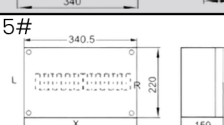
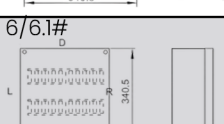

3 Technical Parameter

Ex marking	Gas	⊕ II 2 G Ex eb IIC T6/T5 Gb	Ex eb IIC T6/T5 Gb						
		⊕ II 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						
Conformity to standards		IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 EN 60079-0, EN60079-1, EN60079-7, EN60079-31							
Enclosure material		GRP (Polyester resin, glass fibre reinforced), anti-static							
Enclosure color		Black							
Brand of terminal		International brand							
Exposed fastener		Stainless steel							
Degree of protection		IP66							
Rated voltage	Ex e, Ex tb	Max 690V AC, 220V DC							
	Ex i, Ex tb	Max AC/DC 36V							
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	-	-	-	-	-	-	-
Ambient temperature	Ex e, Ex tb	-40°C ~ +40/55°C							
	Ex i, Ex tb	-40°C ~ +50/60/65°C							

TL-EX-FH-BH03-Series Explosion-proof Terminal Box

4 Selection Table (Dimension in mm)

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

Enclosure specifications	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										
1# 	1x12	1x12	1x10	1x8	--	--	--	--	D/X	3	3	2	1	1	--	--	1.2	
									L/R	--	2	2	1	1	1	--		
2# 	1x25	x25	1x20	1x15	--	--	--	--	D/X	7	5	3	3	2	1	--	1.5	
									L/R	--	4	3	3	2	1	--		
3# 	1x30	1x30	1x27	1x20	1x15	1x13	--	--	D/X	8	6	4	3	2	--	--	2.3	
									L/R	--	5	4	3	3	2	--		
4# 	1x49	1x49	1x41	1x31	1x24	1x20	--	--	D/X	12	10	8	4	3	3	--	3.3	
	2x39	2x40	2x31	2x18	--	--	--	--	L/R	--	8	7	4	3	3	--		
5# 	1x49	1x49	1x41	1x31	1x24	1x20	1x10	--	D/X	20	14	12	7	5	3	3	4.3	
	2x40	2x40	2x31	2x18	--	--	--	--	L/R	--	12	9	7	4	3	2		
6/6.1# 	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	--	12	9	7	4	3	2		
7# 	1x102	1x102	1x86	1x64	1x52	1x42	1x34	1x16	D/X	32	22	18	12	6	4	4	1.3	
	2x102	2x98	2x82	2x62	2x48	2x40	--	--	L/R	--	18	12	12	6	6	4		

5 Outline and Installation Dimension (Dimensions in mm)

