### No.TS10012E

# Instruction Manual

SHIMADA ELECTRIC CO., LTD.

# Type) SXTB-04, 06

EExdICT6

With Terminal Block

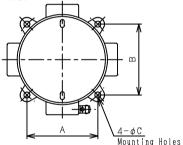
EE×d I C

Without Terminal Block

- 1) This product can be used in zones 1 and 2.
- 2)Operate in an ambient temperature range of -20°C to 40°C.
- 3) Handle with the power off and under the supervision of a responsible person.
- 4) Do not rebuild or repair the product, as explosion protection canont be secured.
- 5) Do not, under any circumstances, remove the cover when there is an electrical current flowing.
- 6) Do not scratch the internal wiring or external conductors.
- 7) Be sure to ground the product.
- 8) Do not use at levels higher than the rated voltage and current,
- 9) When opening and closing the cover, use the wrench provided with the product.
- 10) Do not injure screw.

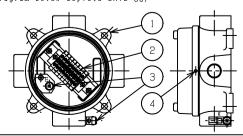
#### Methods for Installation and Cable Lead-In

1.Mounting Size



Туре	Α	В	C
SXTB-04	81	81	6
SXTB-06	106	106	9

- 2. Methods for cable and electric wire lead-in.
- 1) Remove the turning to opposite direction of clockwise rotation after loosing the H.S.S screw(M3) with is installed to cover.
- 2) Pulling cable and electric wire to junction box after installed cable gland.
- 3) Connect the grounding wire to earth terminal. Connect cable wire and electric wire to terminals. Don't contact to the conductior of adjoining terminals.
- 4) Install the cover turning to clockwise rotation.
  Finally, fix the H.S.S. screw(M3) which is installed to cover.
  (The diagram below depicts SXTB-O6)



- 1.Body
- 2.Terminal
- 3. Earth terminal
- 4.H.S.S.screw

No.TS10010E

# Instruction Manual

SHIMADA ELECTRIC CO., LTD.

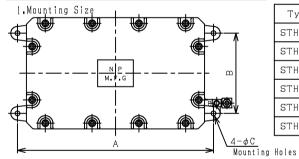
# Type) STH-1, 3, 5, 6, 7S, 7

EExdIBT6

| With Terminal Block | Without Terminal Block

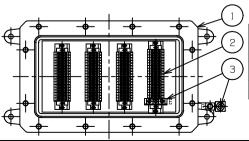
- 1) This product can be used in zones 1 and 2.
- 2) Operate in an ambient temperature range of  $-20^{\circ}$  to  $40^{\circ}$ .
- 3) Handle with the power off and under the supervision of a responsible person.
- 4) Do not rebuild or repair the product, as explosion protection canont be secured.
- 5) Do not, under any circumstances, remove the cover when there is an electrical current flowing.
- 6) Do not scratch the internal wiring or external conductors.
- 7) Be sure to ground the product.
- 8) Do not use at levels higher than the rated voltage and current.
- 9) When opening and closing the cover, use the wrench provided with the product.
- 10) Do not injure flange surface.

### Methods for Installation and Cable Lead-In



Туре	Α	В	С
STH-1	230	115	9
STH-3	330	160	Œ
STH-5	440	180	1 1
STH-6	440	220	1.1
STH-7S	580	220	13
STH-7	580	220	13

- 2.Methods for cable and electric wire lead-in.
- 1) Remove the socket head cap screws (SW. PW) from the cover and remove the cover.
- 2) Pulling cable and electric wire to junction box after installed cable gland.
- Connect the grounding wire to earth terminal.
   Connect cable wire and electric wire to terminals.
   Don't contact to the conduction of adjoining terminals.
- 4) Once the cable and electric wire have been connected, replace the cover, and tighten the socket head cap screws evenly. (The diagram below depicts STH-5)



#### Torque Tightening for Hexagon Head Bolts.

١	Туре	Type Size of screw	
'	STH-1,3	M8	10.4
)	STH-5, 6	M10	20.6
	STH-7S, 7	M12	36

- 1.Body
- 2.Terminal block
- 3. Earth terminal

### No.TS10013E

# Instruction Manual

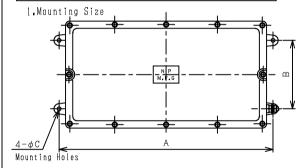
★ SHIMADA ELECTRIC CO., LTD.

# Type) ASTH-10, 20, 30, 60, 70, 90 [Caution]

EExeIT6 With Terminal Block
EExeI Without Terminal Block

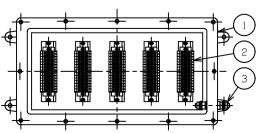
- 1) This product can be used in zones 1 and 2.
- 2) Operate in an ambient temperature range of -20°C to 40°C.
- 3) Handle with the power off and under the supervision of a responsible person.
- 4) Do not rebuild or repair the product, as explosion protection canont be secured,
- 5) Do not, under any circumstances, remove the cover when there is an electrical current flowing.
- 6) Do not scratch the internal wiring or external conductors.
- 7) Be sure to ground the product.
- 8) Do not use at levels higher than the rated voltage and current,
- 9) When opening and closing the cover, use the wrench provided with the product.
- 10) Do not injure flange surface.

#### Methods for Installation and Cable Lead-In



型式	Α	В	С
ASTH-10	270	120	9
ASTH-20	320	160	9
ASTH-30	390	160	9)
ASTH-60	500	160	9)
ASTH-70	400	265	9)
ASTH-90	460	320	18

- 2. Methods for cable and electric wire lead-in.
- 1) Remove the socket head cap screws (SW, PW) from the cover and remove the cover.
- 2) Pulling cable and electric wire to junction box after installed cable gland,
- Connect the grounding wire to earth terminal.
   Connect cable wire and electric wire to terminals.
   Don't contact to the conductior of adjoining terminals.
- 4) Once the cable and electric wire have been connected, replace the cover, and tighten the socket head cap screws evenly. (The diagram below depicts ASTH-60)



### Torque Tightening for Hexagon Head Bolts.

		Torque Tightening (N·m)
ASTH-10, 20, 30, 60, 70	M6	10.4
ASTH-90	M10	20.6

- 1.Bodv
- 2.Terminal block
- 3.Earth terminal

### No.TS10014E

# Instruction Manual

SHIMADA ELECTRIC CO., LTD.

Type) SXTB-1, 2, 2(C), 3, 3(C), 4, 4(C), 5, 5(C) | EExeIT6 | With Terminal Block

### Caution

EExeIT6 With Terminal Block
EExeI Without Terminal Block
EExiaICT6 With Terminal Block

- 1) This product can be used in zones 1 and 2.
- 2) Operate in an ambient temperature range of  $-20^{\circ}$  to  $40^{\circ}$ .
- 3) Handle with the power off and under the supervision of a responsible person.
- 4) Do not rebuild or repair the product, as explosion protection canont be secured.
- 5) Do not, under any circumstances, remove the cover when there is an electrical current flowing.
- 6) Do not scratch the internal wiring or external conductors.
- 7) Be sure to ground the product.
- 8) Do not use at levels higher than the rated voltage and current.
- 9) When opening and closing the cover, use the wrench provided with the product.

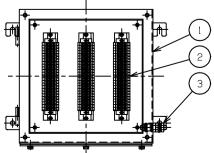
Methods for Installation and	Cable Lead-In
1.Mounting Size	
<b>₩</b> ;	<b>♥</b>
<b>4</b>	
- NIP M. F. G	· m
4-φC / A	
Mounting Holes	<del>&gt;</del>

Туре	Α	В	C
SXTB-1	160		10
SXTB-2	230	130	10
SXTB-2(C)	230	130	10
SXTB-3	330	210	10
SXTB-3(C)	330	210	10
SXTB-4	450	300	1 4
SXTB-4(C)	450	300	1 4
SXTB-5	550	350	1 4
SXTB-5(C)	550	350	1 4

- 2. Methods for cable and electric wire lead-in.
- 1) Remove the socket head cap screws (SW, PW) from the cover and remove the cover.
- 2) Pulling cable and electric wire to junction box after installed cable gland.
- 3) Connect the grounding wire to earth terminal.

  Connect cable wire and electric wire to terminals.

  Don't contact to the conduction of adjoining terminals.
- 4)Once the cable and electric wire have been connected, replace the cover, and tighten the socket head cap screws evenly. (The diagram below depicts SXTH-3(C))



#### Torque Tightening for Hexagon Head Bolts.

Туре	Size of screw	Torque Tightening (N•m)
SXTB-1 SXTB-2, 2(C) SXTB-3, 3(C) SXTB-4, 4(C) SXTB-5, 5(C)	M6	10.4

- 1.Body
- 2.Terminal
- 3.Ground terminal

No.TSINN39E

## OPERATING INSTRUCTIONS SXTB-NN SERIES JUNCTION BOX/ENCLOSURE (1/2)

#### JUNCTION BOX

CERTIFICATION : LCIE 12ATEX3075X (ATEX) ; IECEx LCIE 12.0028X(IECEx)

EX PROTECTION TYPE ; 12GD ExelC T6 or T5 Gb/ExtbIC T85C or T100C Db(ATEX)

: ExelC T6 or T5 Gb/ExtbIC T80C or T95C Db(IECEx)

; IP66 (IEC60529)

#### ENCLOURE

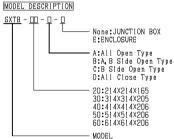
CERTIFICATION ; LCIE 12ATEX3073U(ATEX)

; IECEx LCIE 12.0022U(IECEx)

Ex PROTECTION TYPE ; 12GD ExelC Gb/ExtblC Db(ATEX)

: Exe [C Gb/Extb [C Db(IECEx)

: IP66 (IEC60529)



Material :Stainless Steel (SUS304/SUS316/SUS316L)

Painting Color :Plain

Ambient Temperature: -20°C~+40°C (T6, 80°C) Chloroprene Rubber

:-20C~+55C(T5, 95C)Chloroprene Rubber

:-50°~+40° (T6, 80°) Sillicon Rubber

:-50°C~+55°C (T5. 95°C) Sillicon Rubber

Relative Humidity :45%~85%RH

Altitude :1000m or less

#### Caution

1) This product can be used in zones 1.2 and Zone21.22.

2) Please refer to the specification in the ambient temperature range.

3) Handle with the power off and under the supervision of a responsible person.

4) Do not rebuild or repair the product, as explosion protection canont be secured.

5) Do not, under any circumstances, remove the cover when there is an electrical current flowing,

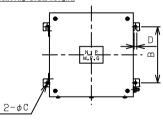
6) Do not scratch the internal wiring or external conductors.

7) Be sure to ground the product.

8) Do not use at levels higher than the rated voltage and current.

9) When opening and closing the cover, use the wrench provided with the product,

#### Mounting size/Weight



TYPE	A	В	С	D	Weight (kg)
SXTB-20-A~D	230	130	10	10	3.5
SXTB-30-A~D	330	180	10	10	6
SXTB-40-A~D	450	210	14	14	9.5
SXTB-50-A~D	550	260	14	14	16
SXTB-60-A~D	650	360	14	14	21.5

#### Methods for cable and electric wire lead-in

1) Remove the socket head cap screws (SW, PW) from the cover and remove the cover.

2) Pulling cable and electric wire to junction box after installed cable gland.

3) Connect the grounding wire to earth terminal.

Connect cable wire and electric wire to terminals.

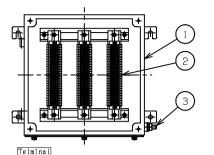
Don't contact to the conduction of adjoining terminals.

4) Once the cable and electric wire have been connected, replace the cover, and tighten the socket head cap screws evenly.

SHIMADA ELECTRIC CO. LTD.

#### No.TS10039E

# OPERATING INSTRUCTIONS SXTB-NN SERIES JUNCTION BOX/ENCLOSURE (2/2)



#### Torque Tightening for Hexagon Head Bolts

TYPE	Size of screw	Torque Tightening (N·m)
SXTB-20-A~D SXTB-30-A~D SXTB-40-A~D SXTB-50-A~D SXTB-60-A~D	M6	10•4

1.Body

2.Terminal

3. Ground terminal

#### SXTB-20-A~D

Rated Voltage	550V					
Rated Current	11A	16A	20A	38A	42A	90A
Number of terminal (Max)	30P	20P	15P	8P	5P	3P
Conformity Wiring	0.5~ 2.5sq	0.5~ 4sq	0.5~ 6sq	2.5~ 10sq	4~ 16sq	16~ 50sq

#### SXTB-30-A~D

Rated Voltage	550V					
Rated Current	84	10A	164	20A	30A	60A
Number of terminal (Max)	55P	45P	30P	35P	10P	7P
Conformity Wiring	0.5~ 2.5sq	0.5~ 4sq	0.5~ 6sq	2.5~ 10sq	4~ 16sq	16~ 50sq

#### SXTB-40-A~D

Rated Voltage		550V					
Rated Current	5A	5A 8A 12A 16A 20A					
Number of terminal (Max)	120P	105P	90P	72P	55P	24P	
Conformity Wiring	0.5~ 2.5sq	0.5~ 4sq	0.5~ 6sq	2.5~ 10sq	4~ 16sq	16∼ 50sq	

#### SXTB-50-A~D

Rated Voltage		550V						
Rated Current	5A	5A 7A 8A 13A 20A						
Number of terminal (Max)	180P	160P	140P	84P	40P	26P		
Conformity Wiring	0.5~ 2.5sq	0.5~ 4sq	0.5~ 6sq	2.5~ 10sq	4~ 16sq	16~ 50sq		

#### SXTB-60-A~D

Rated Voltage		550V					
Rated Current	5A	7A	88	13A	20A	40A	
Number of terminal (Max)	275P	250P	200P	136P	80P	50P	
Conformity Wiring	0.5~ 2.5sq	0.5~ 4sq	0.5~ 6sq	2.5~ 10sq	4~ 16sq	16~ 50sq	

SHIMADA ELECTRIC CO. LTD.

#### No.TS10014-2E

# Instruction Manual

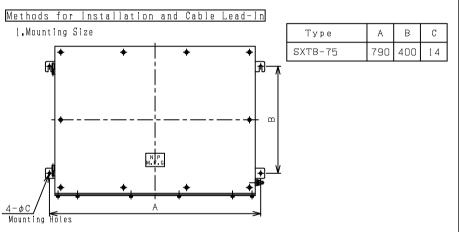
S SHIMADA ELECTRIC CO., LTD,

# Type)SXTB-75

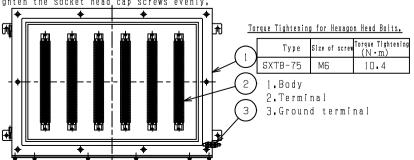
## Caution

EExeIT6 With Terminal Block
EExiaIT6 With Terminal Block

- 1) This product can be used in zones 1 and 2.
- 2) Operate in an ambient temperature range of -20% to 40%.
- 3) Handle with the power off and under the supervision of a responsible person.
- 4) Do not rebuild or repair the product, as explosion protection canont be secured,
- 5) Do not, under any circumstances, remove the cover when there is an electrical current flowing.
- 6) Do not scratch the internal wiring or external conductors.
- 7) Be sure to ground the product.
- 8) Do not use at levels higher than the rated voltage and current.
- 9) When opening and closing the cover, use the wrench provided with the product.



- 2. Methods for cable and electric wire lead-in.
- 1) Remove the socket head cap screws (SW. PW) from the cover and remove the cover.
- 2) Pulling cable and electric wire to junction box after installed cable gland.
- Connect the grounding wire to earth terminal.
   Connect cable wire and electric wire to terminals.
   Don't contact to the conductior of adjoining terminals.
- 4) Once the cable and electric wire have been connected, replace the cover, and tighten the socket head cap screws evenly.



No.TSINO4NE

## OPERATING INSTRUCTIONS SXTB-NNN SERIES JUNCTION BOX/ENCLOSURE (1/2)

#### JUNCTION BOX

CERTIFICATION : LCIE 13ATEX3002X (ATEX) ; IECEx LCIE 12.0035X(IECEx)

EX PROTECTION TYPE ; 12GD ExellC T6 or T5 Gb/ExtblC T80°C or T95°C Db (ATEX)

: ExelC T6 or T5 Gb/ExtbIC T80C or T95C Db(IECEx)

; IP66 (IEC60529)

#### ENCLOURE

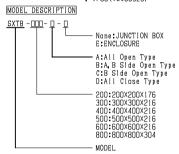
CERTIFICATION ; LCIE 13ATEX3001U(ATEX)

; IECEx LCIE 12.0034U(IECEx)

Ex PROTECTION TYPE ; 12GD ExelC Gb/ExtblC Db(ATEX)

: Exe [C Gb/Extb [C Db(IECEx)

: IP66 (IEC60529)



Material :Stainless Steel (SUS304/SUS316/SUS316L)

Painting Color :Plain

Ambient Temperature: -200~+400 (T6, 800) Chloroprene Rubber

:-20°~+55° (T5, 95°) Chloroprene Rubber

:-50°C~+40°C (T6, 80°C) Sillicon Rubber

:-50C~+55C(T5,95C)Sillicon Rubber

Relative Humidity :45%~85%RH

Altitude :1000m or less

#### Caution

1) This product can be used in zones 1.2 and Zone21.22.

2) Please refer to the specification in the ambient temperature range.

3) Handle with the power off and under the supervision of a responsible person.

4) Do not rebuild or repair the product, as explosion protection canont be secured.

5) Do not, under any circumstances, remove the cover when there is an electrical current flowing,

6) Do not scratch the internal wiring or external conductors.

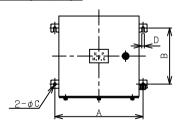
7) Be sure to ground the product.

8) Do not use at levels higher than the rated voltage and current.

9) When opening and closing the cover, use the hexagon socket screw key provided

with the provided with the product.

#### Mounting size/Weight



TYPE	A	В	C	D	Weight (kg)
SXTB-200-A~D	250	150	12	12	5.5
SXTB-300-A~D	350	250	12	12	9.5
SXTB-400-A~D	450	350	12	12	14
SXTB-500-A~D	550	450	12	12	18
SXTB-600-A~D	650	500	14	14	27.5
SXTB-800-A~D	850	750	14	14	52

#### Methods for cable and electric wire lead-in

1) Remove the special fastener from the cover and remove the cover.

2) Pulling cable and electric wire to junction box after installed cable gland.

3) Connect the grounding wire to earth terminal.

Connect cable wire and electric wire to terminals.

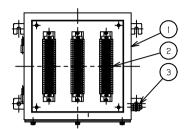
Don't contact to the conduction of adjoining terminals.

4) Once the cable and electric wire have been connected, replace the cover,

SHIMADA ELECTRIC CO. LTD.

#### No.TSINO4NE

## OPERATING INSTRUCTIONS SXTB-NN SERIES JUNCTION BOX/ENCLOSURE (2/2)



#### Remove the special fastener tool.

TYPE	Hexagon Socket Screw Key
SXTB-200-A~D SXTB-300-A~D SXTB-400-A~D SXTB-500-A~D SXTB-600-A~D SXTB-800-A~D	8

1.Body

2.Terminal

3. Ground terminal

### Telminal SXTB-200-A~D

Rated Voltage			
Rated Current	11A	164	วก

Rated Voltage		550V							
Rated Current	11A	16A	20A	38A	42A	90A			
Number of terminal (Max)	30P	20P	15P	8P	5P	3P			
Conformity Wiring	0.5~ 2.5sq	0.5~ 4sq	0.5~ 6sq	2.5~ 10sq	4~ 16sq	16~ 50s			

#### SXTB-300-A~D

Rated Voltage		550V						
Rated Current	84	10A	164	20A	30A	A09		
Number of terminal (Max)	55P	45P	30P	35P	10P	7P		
Conformity Wiring	0.5~ 2.5sq	0.5~ 4sq	0.5~ 6sq	2.5~ 10sq	4~ 16sq	16~ 50sq		

#### SXTB-400-A~D

Rated Voltage		550V					
Rated Current	5A	88	12A	16A	20A	50A	
Number of terminal (Max)	120P	105P	90P	72P	43P	18P	
Conformity Wiring	0.5~ 2.5sq	0.5~ 4sq	0.5~ 6sq	2.5~ 10sq	4~ 16sq	16~ 50sq	

#### SXTB-500-A~D

Rated Voltage		550V					
Rated Current	5A	5A 7A 8A 13A 20A					
Number of terminal (Max)	180P	140P	140P	84P	40P	26P	
Conformity Wiring	0.5~ 2.5sq	0.5~ 4sq	0.5~ 6sq	2.5~ 10sq	4~ 16sq	16~ 50sq	

#### SXTB-600-A~D

Rated Voltage		550V					
Rated Current	5A	5A 7A 8A 13A 20A					
Number of terminal (Max)	275P	250P	200P	136P	80P	50P	
Conformity Wiring	0.5~ 2.5sq	0.5~ 4sq	0.5~ 6sq	2.5~ 10sq	4~ 16sq	16~ 50sq	

#### SXTB-800-A~D

Rated Voltage		550V						
Rated Current	5A	5A 7A 8A 13A 15A						
Number of terminal (Max)	400P	300P	300P	200P	160P	60P		
Conformity Wiring	0.5~ 2.5sq	0.5~ 4sq	0.5~ 6sq	2.5~ 10sq	4~ 16sq	16~ 50sq		

SHIMADA ELECTRIC CO. LTD.