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REF. DRG. NO.

SIGN & DATE

INVENTORY NO.

35620061775

DRAWING NO.

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SCHEME OF OUTDOOR CONTROL AND RELAY PANELS FOR 11KV LV VCB WITH DIFFERENTIAL PROTECTION OF APEPDCL VISHAKHAPATNAM

TABLE-1

WO	CUSTOMER PO.NO.	VCB Unit sl. Nos.	QTY	CT DETAILS	GOVT. SCHEME
97050A47601	CGM/P&MM/EPDCL/P4/VSP/CEMPT/-50/17-18/PM-4970/17, DT: 23.12.2017	8217228 to 8217276	49	11 kV O/D LV CT RATIO 600-300/1-1-0.5775 A ,CORE-I:15VA,5P10,CORE-II:5VA, 0.2S CORE-III: CL-PS,VK>=40I(RCT+RL), IM<=30MA at Vk/4	-
97056A47601	CGM/P&MM/EPDCL/P4/VSP/CEMPT/-50/17-18/EXTN.PM(1)-4970/17, DT: 22.01.2018	8217390 to 8217394	5	11 kV O/D LV CT RATIO 600-300/1-1-0.5775 A ,CORE-I:15VA,5P10,CORE-II:5VA, 0.2S CORE-III: CL-PS,VK>=40I(RCT+RL), IM<=30MA at Vk/4	IPDS

WO_NO : REFER TABLE-1

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED		DEPT. SWE	 BHARAT HEAVY ELECTRICALS LTD. BHOPAL
		CHECKED				CHECKED				CHECKED			
		APPROVED				APPROVED				APPROVED			

ZONE		ZONE		ZONE		DRN.	NAME NM	SIGN SD/-	DATE 16/02/18	NO. OF VAR	TITL OUTDOOR CONTROL & RELAY PANEL TITLE SHEET
						CKD.	MHN	SD/-	16/02/18		
						APPD.	MAK	SD/-	16/02/18		

OUTDOOR CRP FOR 11KV VCB APEPDCL VISHAKHAPATNAM				DRAWING NO. 35620061775		REV 00
SHT. NO. 01	NO OF SHEETS		16			

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INVENTORY NO.

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SHEET NO.	TITLE
1	TITLE SHEET
2	CONTENTS
3	3-LINE DIAGRAM-CT CONNECTIONS & AC SCHEME-NR RELAY
4	3-LINE DIAGRAM-CT CONNECTIONS
5	3-LINE DIAGRAM-CT CONNECTIONS
6	METERING CIRCUIT
7	240V AC SUPPLY DISTRIBUTION
8	24V DC SUPPLY DISTRIBUTION
9	TRIP CONDITIONS (86) & DC SCHEME-NR
10	PROTECTION CIRCUIT
11	LED INDICATIONS
12	CB CONTROL-CLOSE & TRIP COIL
13	CB CONTROL-CLOSE & TRIP COIL
14	ALARM CANCELLATION SCHEME
15	ALARM ANNUNCIATOR
16	CONTACT DISTRIBUTION & SWITCH DETAIL

NOTE : 1. CONTACTS OF MAIN NUMERICAL RELAY & TRIP RELAY IS REPRESENTATIVE ONLY , AVAILABLE CONTACTS FROM THE RESPECTIVE MANUFACTURER WILL BE UPDATED IN THE AS BUILT DRAWINGS.
2. TERMINAL NOS. MAY CHANGE AFTER FINALIZING OF MAKE OF EACH ITEM AND WILL BE REFLECTED IN AS BUILT DAWINGS.

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED		DEPT. SWE	 BHARAT HEAVY ELECTRICALS LTD. BHOPAL	OUTDOOR CRP FOR 11KV VCB APEPDCL VISHAKHAPATNAM									
		CHECKED				CHECKED				CODE 409													
		APPROVED				APPROVED																	
ZONE					ZONE					ZONE								DRN.	NAME NM	SIGN SD/-	DATE 16/02/18	NO. OF VAR	TITLES OUTDOOR CONTROL & RELAY PANEL CONTENTS
												CKD.	MHN	SD/-	16/02/18								
												APPD.	MAK	SD/-	16/02/18	SHT. NO. 02	NO OF SHEETS	16					

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REF. DRG. NO.

SIGN & DATE

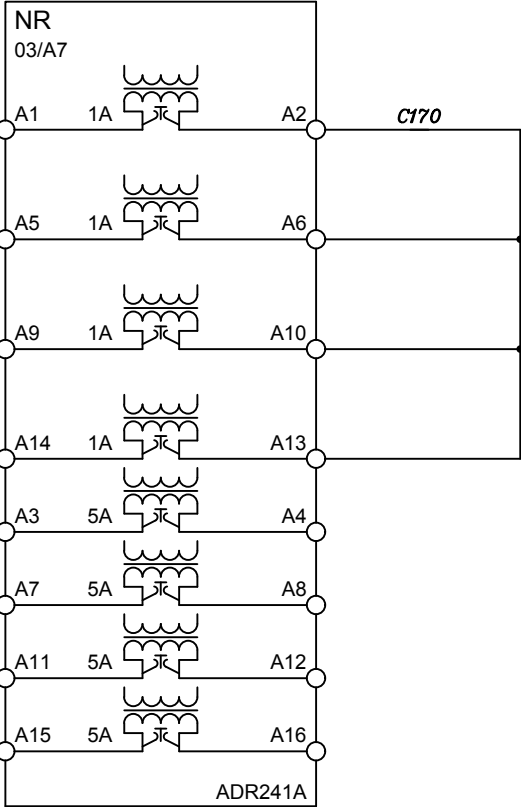
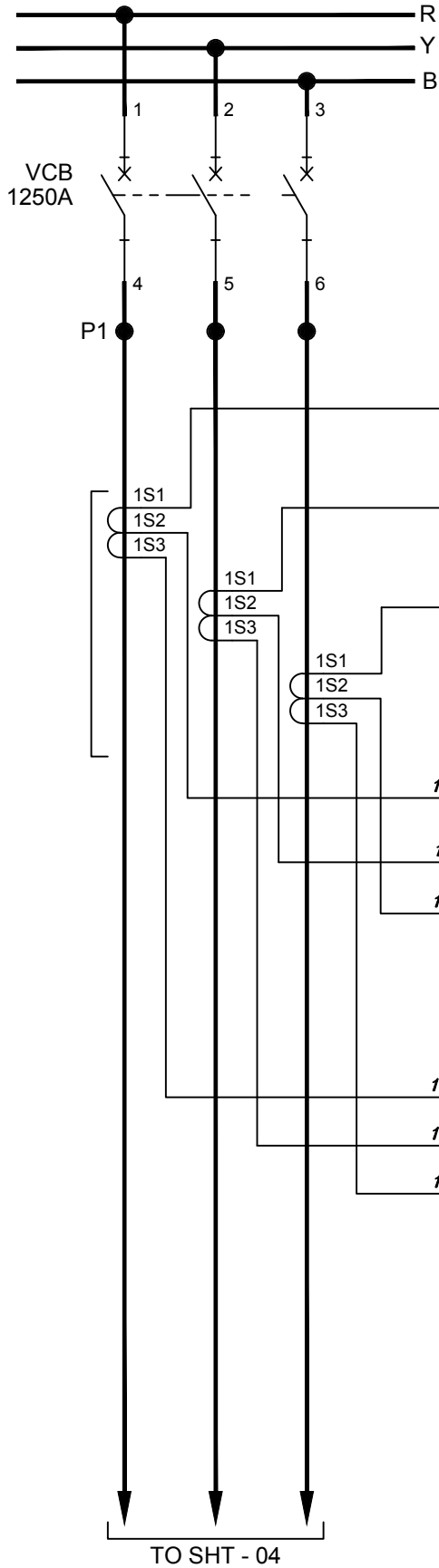
INVENTORY NO.

35620061775

DRAWING NO.

REMOTE SIDE

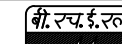
CT CORE-1



NR		
	CT	
C1	PSU	C3
B2	12/B3	B4
B3	13/B3	B5
B6	SPARE	B8
B7	SPARE	B9
	2CROC	SPARE
	2CROC	SPARE
C6	14/A2	C8
C9	09/B3	C11
C10	16/A3 TO SPARE	C12
C13	16/A3 TO SPARE	C15
C14	16/A4 TO SPARE	C16
B10	16/A5 TO SPARE	B11
B12		

NOTE:-

CT CONNECTIONS ARE SHOWN FOR HIGHER TAB

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	DEPT.	बी. एच. ई. लि. 	BHARAT HEAVY ELECTRICALS LTD.	OUTDOOR CRP FOR 11KV VCB APEPDCL VISHAKHAPATNAM				
		CHECKED			CHECKED			SWE								
		APPROVED			APPROVED			CODE 409								
ZONE			ZONE			ZONE			DRN.	NAME	SIGN	DATE	NO. OF VAR	TITLE	DRAWING NO.	REV
									CKD.	MHN	SD/-	16/02/18				
									APPD.	MAK	SD/-	16/02/18				
OUTDOOR CONTROL & RELAY PANEL 3-LINE DIAGRAM-CT CONNECTIONS & AC SCHEME-NR RELAY															35620061775	00
															SHT. NO. 03	NO OF SHEETS 16

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REF. DRG. NO.

SIGN & DATE

INVENTORY NO.

35620061775

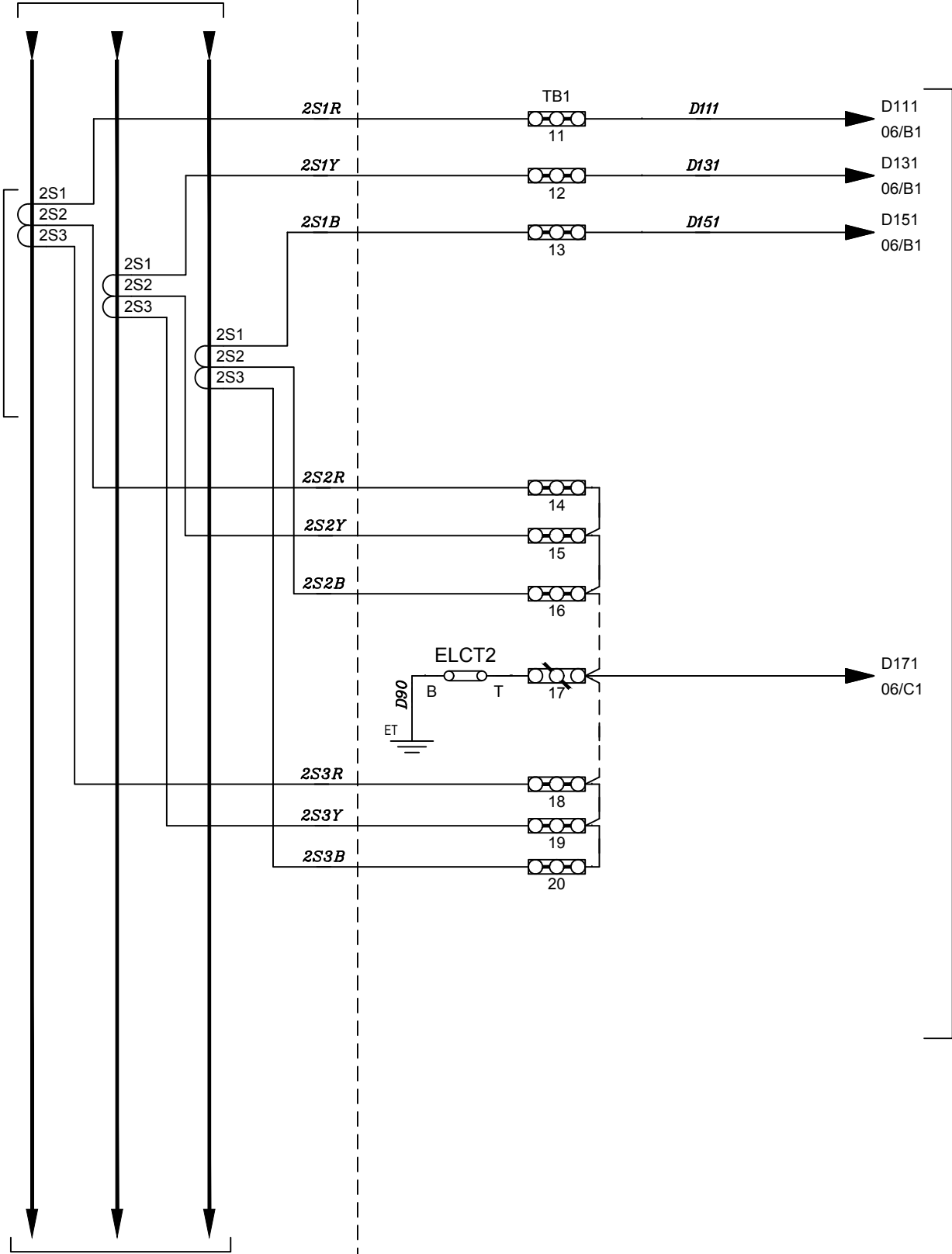
DRAWING NO.

REMOTE SIDE

CT CORE-2

FROM SHT- 03

TO SHT - 05



FOR METERING

NOTE:-
CT CONNECTIONS ARE SHOWN FOR HIGHER TAB

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED		DEPT. SWE		BHARAT HEAVY ELECTRICALS LTD.	BHOPAL	OUTDOOR CRP FOR 11KV VCB APEPDCL VISHAKHAPATNAM								
		CHECKED				CHECKED				CHECKED														
		APPROVED				APPROVED				APPROVED														
ZONE					ZONE					ZONE						DRN.	NAME NM	SIGN SD/-	DATE 16/02/18	NO. OF VAR	TITLE OUTDOOR CONTROL & RELAY PANEL 3-LINE DIAGRAM-CT CONNECTIONS	DRAWING NO. 35620061775		REV 00
															CKD.	MHN	SD/-	16/02/18	SHT. NO. 04			NO OF SHEETS	16	
															APPD.	MAK	SD/-	16/02/18						

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REF. DRG. NO.

SIGN & DATE

INVENTORY NO.

35620061775

DRAWING NO.

REMOTE SIDE

FROM SHT- 04

CT CORE-3

P2

FROM 33KV TRANSFORMER

2S1R

2S1Y

2S1B

2S2R

2S2Y

2S2B

2S3R

2S3Y

2S3B

ELCT3

ET

A90

TB1

28

29

30

TB1

21

22

23

24

25

26

27

B

T

A171

A171

A171

A171

A171

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X120:7

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DOWNSTREAM CT

TB1

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A211

A231

A251

A270

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NOTE:-

CT CONNECTIONS ARE SHOWN FOR HIGHER TAB

87T

X120:1	CT	X120:2	
X120:3		X120:4	05/B4
X120:5		X120:6	
	CT-2		05/D6
X100:1	PSU	X100:2	09/C2
X110:1		X110:2	09/C5
X110:3		X110:4	09/C5
	2_1OPTO025		09/C6
	2_1OPTO025		09/C6
	2_1OPTO025		09/C7
X100:5		X100:3	16/C1 TO SPARE
X100:4		X100:7	16/C2 TO SPARE
X100:6		X100:9	16/C2 TO SPARE
X100:8			
	2CCBBM		SPARE
X100:13		X100:14	09/B3
	2CROR		SPARE
	2CROR		SPARE
	2CCBBM		SPARE
	2CCBBM		SPARE
X110:21		X110:20	16/C4 TO SPARE
X110:22		X110:24	16/C3 TO SPARE
X110:23			

OUTDOOR CRP FOR 11KV VCB
APEPDCL VISHAKHAPATNAM

DRAWING NO.

35620061775

SHT. NO. 05

NO OF SHEETS

16

REV

00

DEPT.

SWE

CODE

409



BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

DRN.

NAME

SIGN

DATE

NO. OF

TITLE

OUTDOOR CONTROL & RELAY PANEL
3-LINE DIAGRAM-CT CONNECTIONS

CKD.

MHN

SD/-

16/02/18

VAR

APPD.

MAK

SD/-

16/02/18



REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	DEPT. SWE		BHARAT HEAVY ELECTRICALS LTD.	BHOPAL	OUTDOOR CRP FOR 11KV VCB APEPDCL VISHAKHAPATNAM					
		CHECKED			CHECKED			CODE 409										
		APPROVED			APPROVED													
ZONE			ZONE			ZONE			DRN.	NAME NM	SIGN SD/-	DATE 16/02/18	NO. OF VAR	TITLE OUTDOOR CONTROL & RELAY PANEL METERING CIRCUIT	DRAWING NO. 35620061775		REV 00	
									CKD.	MHN	SD/-	16/02/18			SHT. NO. 06	NO OF SHEETS 16		
									APPD.	MAK	SD/-	16/02/18						

DRAWING NO.

8[illegible]

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED		DEPT. SWE		BHARAT HEAVY ELECTRICALS LTD. BHOPAL	OUTDOOR CRP FOR 11KV VCB APEPDCL VISHAKHAPATNAM					
		CHECKED				CHECKED				CODE 409										
		APPROVED				APPROVED														
ZONE				ZONE				ZONE				DRN.	NAME NM	SIGN SD/-	DATE 16/02/18	NO. OF VAR	TITLE OUTDOOR CONTROL & RELAY PANEL 240V AC SUPPLY DISTRIBUTION	DRAWING NO. 35620061775		REV 00
												CKD.	MHN	SD/-	16/02/18					
												APPD.	MAK	SD/-	16/02/18			SHT. NO. 07		NO OF SHEETS 16

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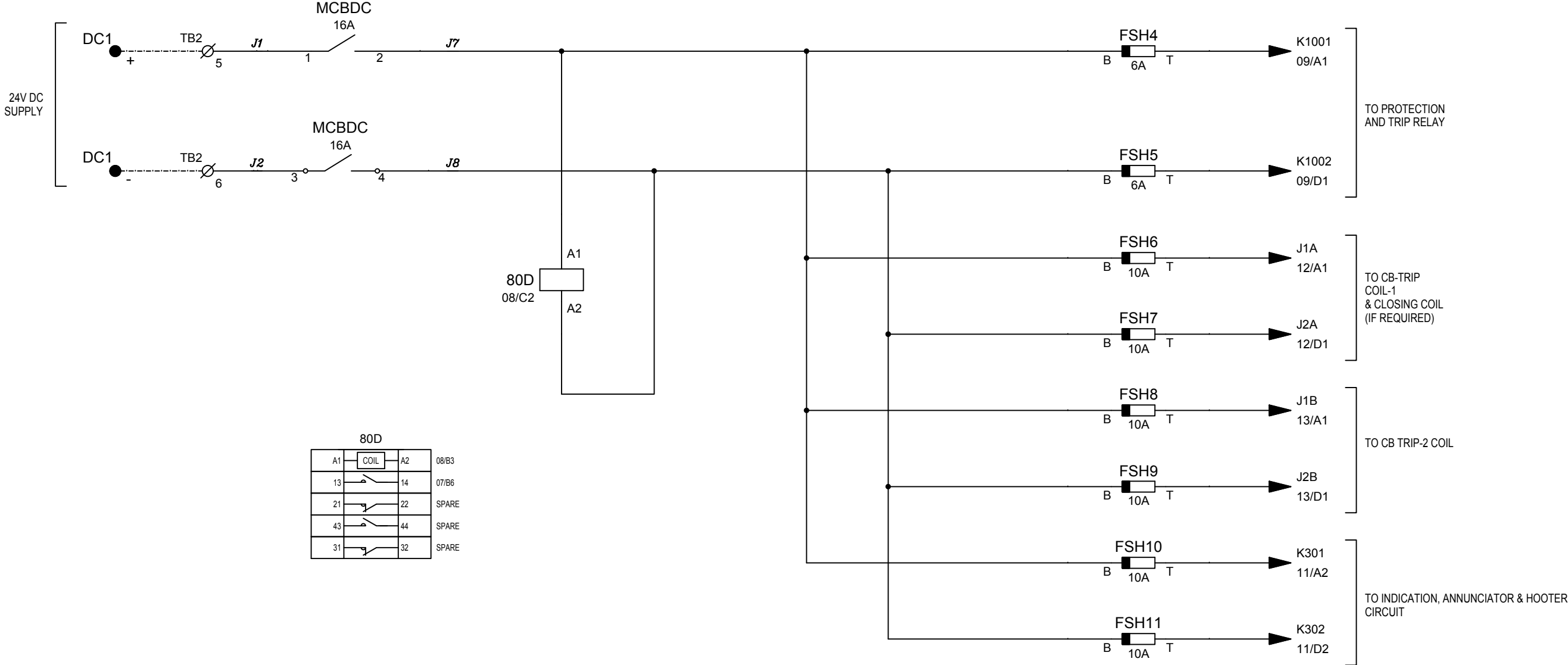
REF. DRG. NO.

SIGN & DATE

INVENTORY NO.

35620061775

DRAWING NO.



80D					
A1	COIL	A2	08/B3		
13		14	07/B6		
21		22	SPARE		
43		44	SPARE		
31		32	SPARE		

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHECKED				CHECKED				CHECKED	
		APPROVED				APPROVED				APPROVED	

ZONE		ZONE		ZONE	
------	--	------	--	------	--

DEPT.	SWE
CODE	409



BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

OUTDOOR CRP FOR 11KV VCB
APEPDCL VISHAKHAPATNAM

DRN.	NAME	SIGN	DATE	NO. OF VAR	TITLE
CKD.	MHN	SD/-	16/02/18		
APPD.	MAK	SD/-	16/02/18		

OUTDOOR CONTROL & RELAY PANEL
24V DC SUPPLY DISTRIBUTION

DRAWING NO.

35620061775

REV

00

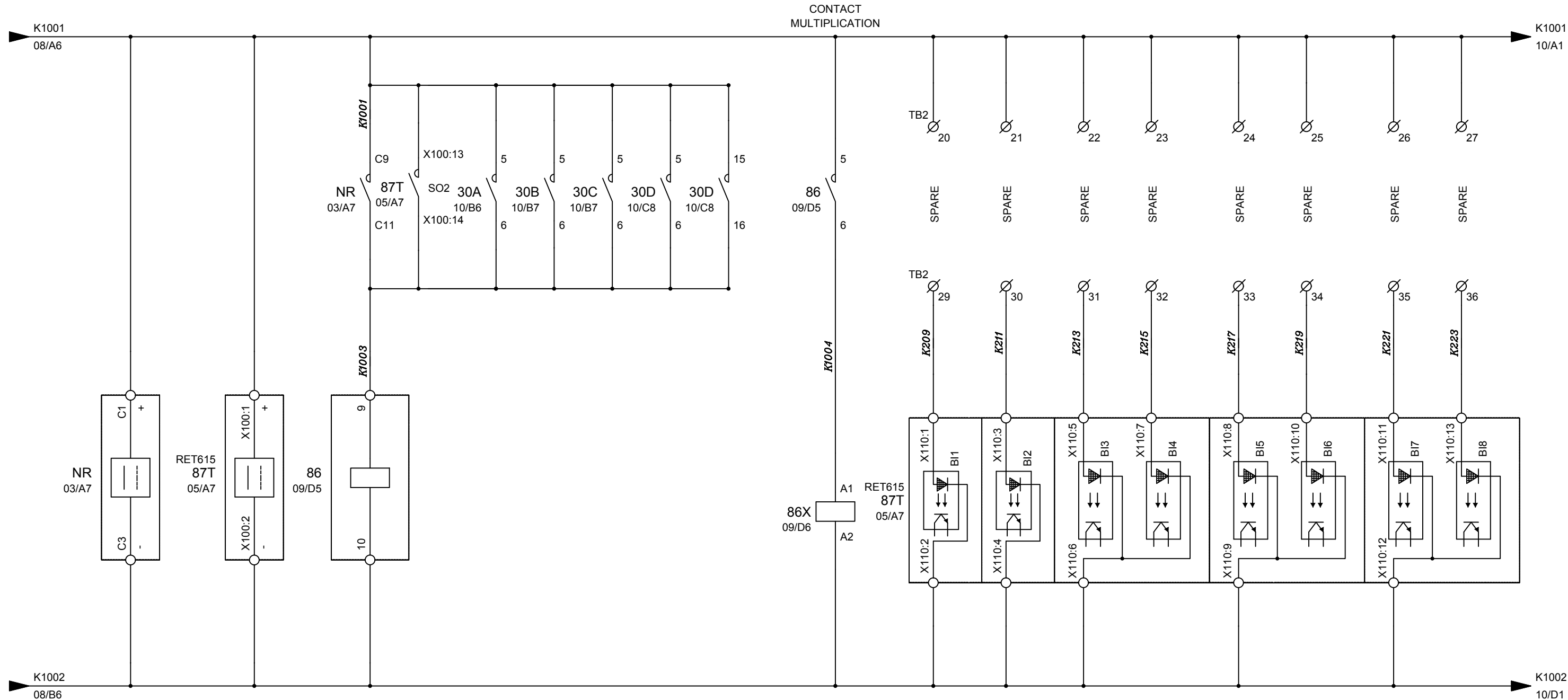
SHT. NO. 08

NO OF SHEETS

16

(ALL DIMENSIONS ARE IN mm)

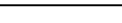
DRAWING NO. 35620061775



86			
9	COIL	10	09/C3
1		2	12/B4
3		4	11/B4
5		6	09/B4
11		12	12/A4
13		14	16/A1 TO SPARE

86X			
A1	COIL	A2	09/C4
13		14	13/B4
21		22	16/A2 TO SPARE
43		44	15/B2
31		32	16/A2 TO SPARE

INVENTORY NO.	SIGN & DATE	REF. DRG. NO.
---------------	-------------	---------------

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED		DEPT. SWE	 BHARAT HEAVY ELECTRICALS LTD. BHOPAL	OUTDOOR CRP FOR 11KV VCB APEPDCL VISHAKHAPATNAM						
		CHECKED				CHECKED				CODE 409										
		APPROVED				APPROVED														
ZONE				ZONE				ZONE				DRN.	NAME NM	SIGN SD/-	DATE 16/02/18	NO. OF VAR	TITLE OUTDOOR CONTROL & RELAY PANEL TRIP CONDITIONS (86) & DC SCHEME-NR	DRAWING NO. 35620061775		REV 00
												CKD.	MHN	SD/-	16/02/18			SHT. NO. 09	NO OF SHEETS	16
												APPD.	MAK	SD/-	16/02/18					

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REF. DRG. NO.

SIGN & DATE

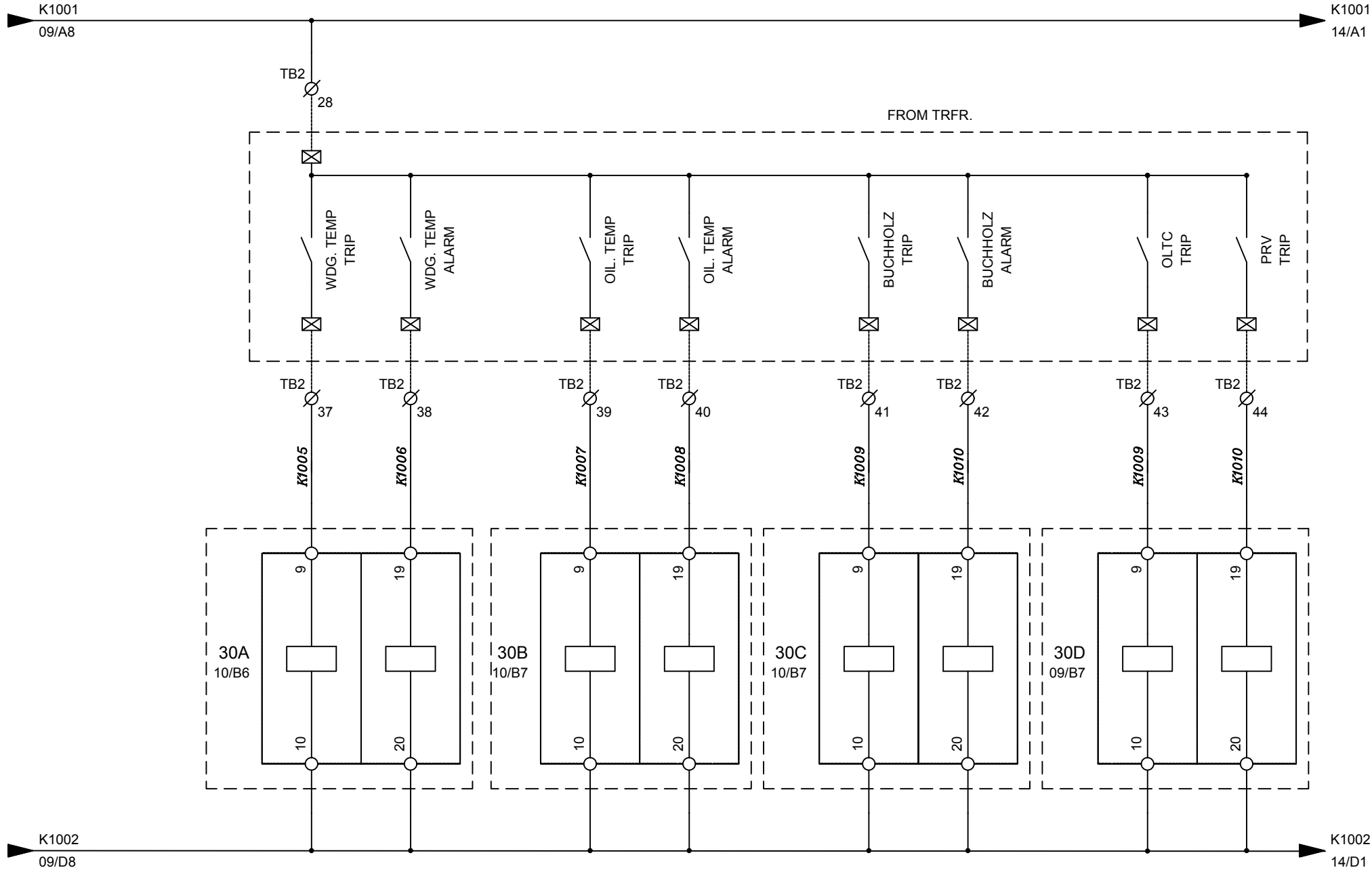
INVENTORY NO.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

35620061775

DRAWING NO.



30B			
9	COIL	10	10/C3
19	COIL	20	10/C4
1		2	SPARE
3		4	SPARE
5		6	09/B4
7		8	SPARE
11		12	SPARE
13		14	SPARE
15		16	15/C2
17		18	SPARE

30C			
9	COIL	10	10/C4
19	COIL	20	10/C5
1		2	SPARE
3		4	SPARE
5		6	09/B4
7		8	SPARE
11		12	SPARE
13		14	SPARE
15		16	15/C2
17		18	SPARE

30A			
9	COIL	10	10/C2
19	COIL	20	10/C3
1		2	SPARE
3		4	SPARE
5		6	09/B4
7		8	SPARE
11		12	SPARE
13		14	SPARE
15		16	15/B2
17		18	SPARE

30D			
9	COIL	10	10/C4
19	COIL	20	10/C5
1		2	SPARE
3		4	SPARE
5		6	09/B4
7		8	SPARE
11		12	SPARE
13		14	SPARE
15		16	08/B4
17		18	SPARE

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHECKED				CHECKED				CHECKED	
		APPROVED				APPROVED				APPROVED	

DEPT.	SWE
CODE	409



BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

OUTDOOR CRP FOR 11KV VCB
APEPDCL VISHAKHAPATNAM

OUTDOOR CONTROL & RELAY PANEL
PROTECTION CIRCUIT

DRAWING NO.

35620061775

SHT. NO. 10

NO OF SHEETS

16

REV
00

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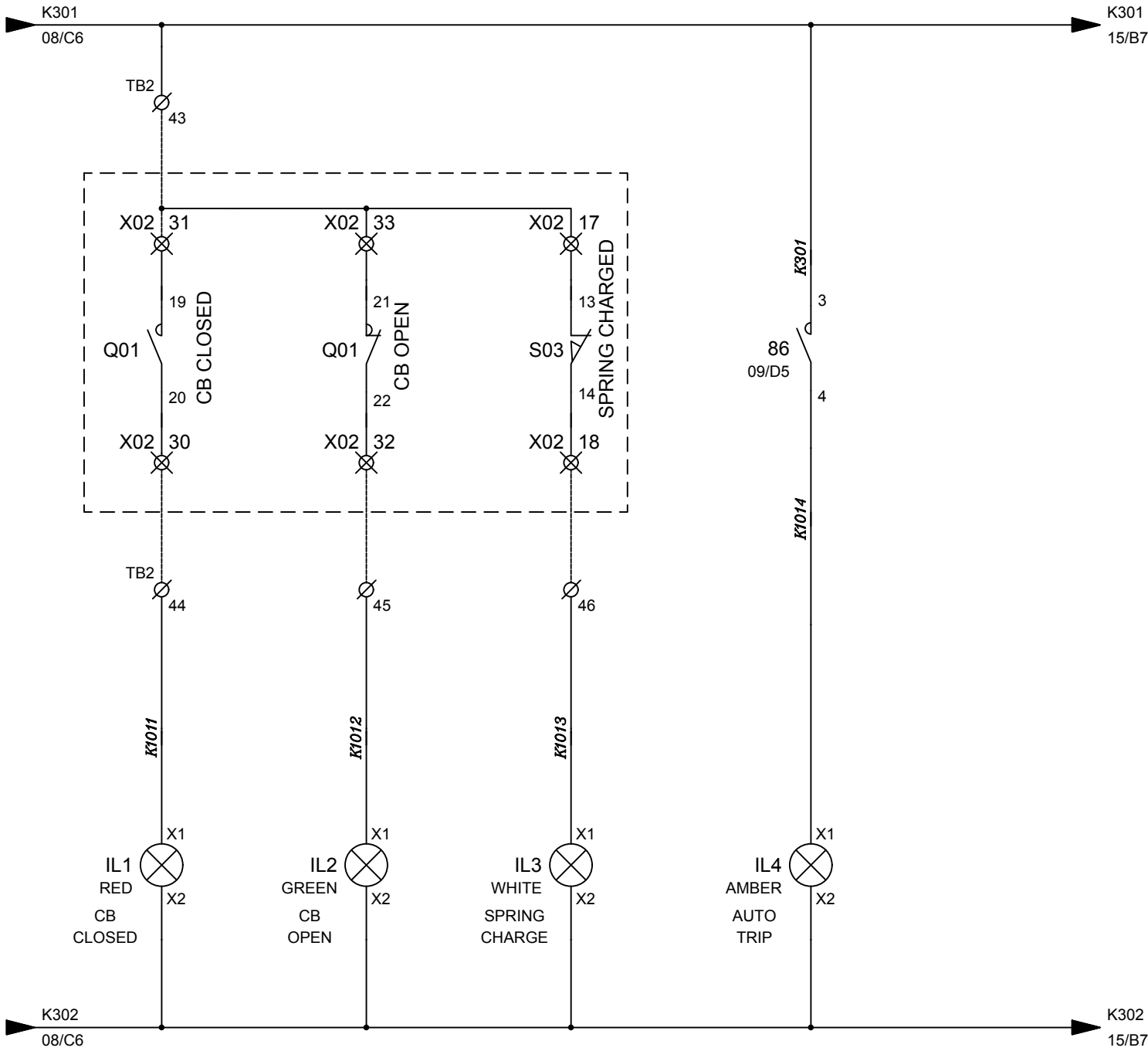
REF. DRG. NO.

SIGN & DATE

INVENTORY NO.

35620061775

DRAWING NO.



REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHECKED				CHECKED	
		APPROVED				APPROVED	

ZONE		ZONE		ZONE	

REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHECKED				CHECKED	
		APPROVED				APPROVED	

ZONE		ZONE		ZONE	

DEPT.	SWE
CODE	409



BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

DRN.	NAME	SIGN	DATE	NO. OF VAR
CKD.	MHN	SD/-	16/02/18	
APPD.	MAK	SD/-	16/02/18	

TITLE
OUTDOOR CONTROL & RELAY PANEL
LED INDICATIONS

OUTDOOR CRP FOR 11KV VCB
APEPDCL VISHAKHAPATNAM

DRAWING NO.
35620061775

SHT. NO. 11

NO OF SHEETS 16

REV
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REF. DRG. NO.

SIGN & DATE

INVENTORY NO.

35620061775

DRAWING NO.

J1A
08/B6

CS
CLOSE
NEUTRAL
TRIP

B
2

CS
CLOSE
NEUTRAL
TRIP

A
1

86
09/D5

86
09/D5

NR
03/A7

TRIP CKT CHECK
1-3 1-4
PBT1

(0-300 OHM)
R1

IL7
X1 X2
AMBER
TRIP CKT-1 HEALTHY

(0-300 OHM)
R2

J2A
08/B6

=F+VCB

(X02-01) (+24V DC)

(X02-11) REMOTE CLOSE

(X02-10) REMOTE TRIP-1 (MANUAL)

(X02-9) PROTN. TRIP

(X02-7) POST CLOSE SUPERVISION

(X02-12) PRE CLOSE SUPERVISION

(X02-02) (-24V DC)

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHECKED				CHECKED				CHECKED	
		APPROVED				APPROVED				APPROVED	

ZONE		ZONE		ZONE		DRN.	NAME NM	SIGN SD/-	DATE 16/02/18	NO. OF VAR	TITLE OUTDOOR CONTROL & RELAY PANEL CB CONTROL-CLOSE & TRIP COIL	DRAWING NO. 35620061775		REV 00
						CKD.	MHN	SD/-	16/02/18			SHT. NO. 12	NO OF SHEETS	16
						APPD.	MAK	SD/-	16/02/18					

DEPT.
SWE
CODE
409



BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

OUTDOOR CRP FOR 33KV VCB
APEPDCL VISHAKHAPATNAM

DRAWING NO.

35620061775

REV
00

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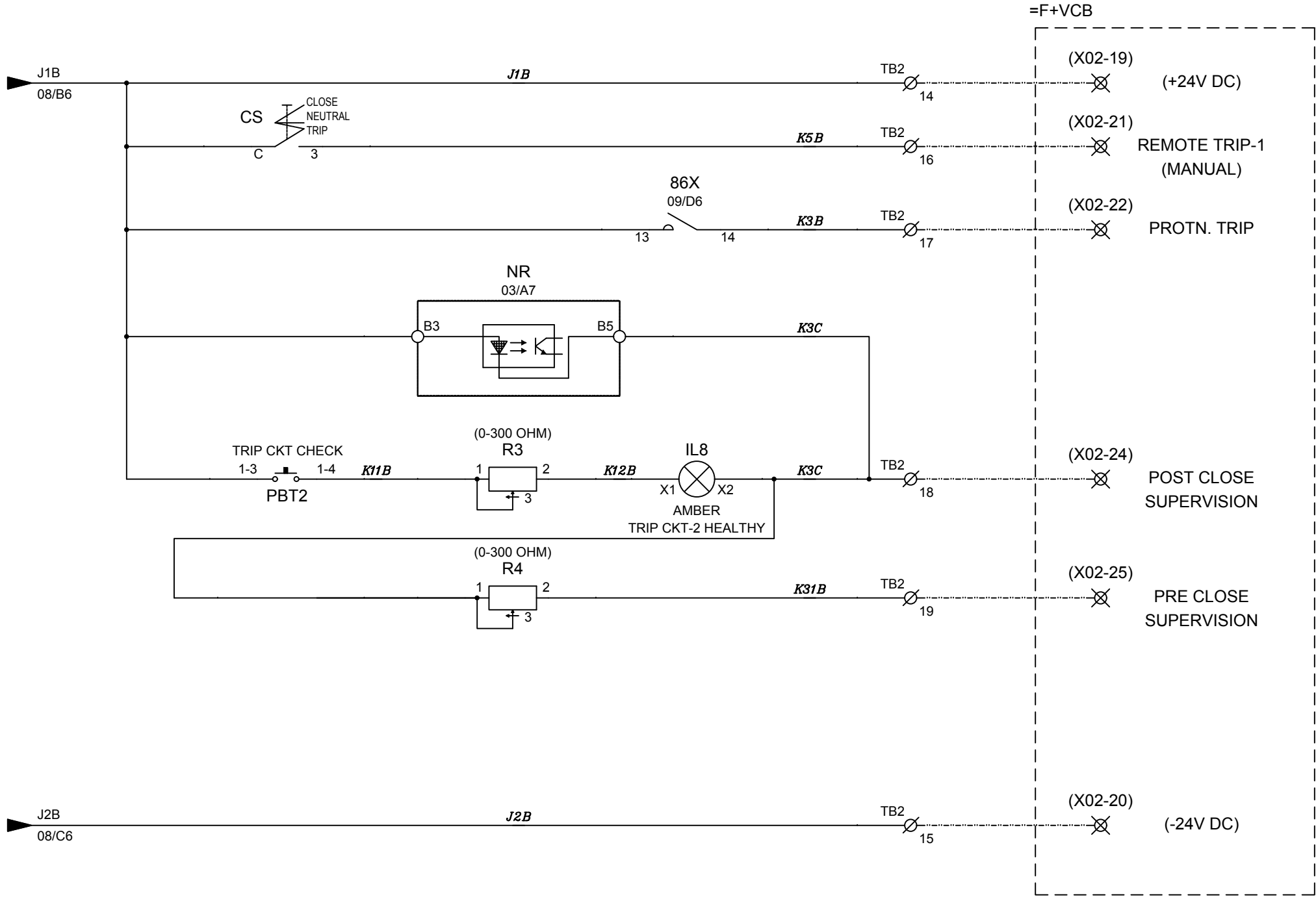
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SIGN & DATE

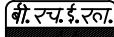
INVENTORY NO.

35620061775

DRAWING NO.



REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHECKED				CHECKED				CHECKED	
		APPROVED				APPROVED				APPROVED	
ZONE				ZONE				ZONE			

DEPT. SWE			BHARAT HEAVY ELECTRICALS LTD.			
CODE 409			BHOPAL			
DRN.	NAME NM	SIGN SD/-	DATE 16/02/18	NO. OF VAR	TITLE OUTDOOR CO CB CONTRO	
CKD.	MHN	SD/-	16/02/18			
APPD.	MAK	SD/-	16/02/18			

OUTDOOR CRP FOR 11KV VCB APEPDCL VISHAKHAPATNAM									
OUTDOOR CONTROL & RELAY PANEL CB CONTROL-CLOSE & TRIP COIL									
DRAWING NO.		35620061775		REV		00			
SHT. NO. 13		NO OF SHEETS		16					

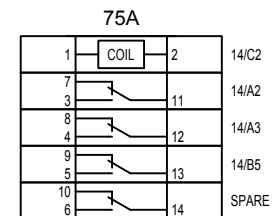
DRAWING NO.

8

E

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INVENTORY NO.



REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	DEPT. SWE	 BHARAT HEAVY ELECTRICALS LTD. BHOPAL	OUTDOOR CRP FOR 11KV VCB APEPDCL VISHAKHAPATNAM							
		CHECKED			CHECKED			CODE 409										
		APPROVED			APPROVED													
ZONE			ZONE			ZONE			DRN.	NAME NM	SIGN SD/-	DATE 16/02/18	NO. OF VAR	TITLE OUTDOOR CONTROL & RELAY PANEL ALARM CANCELLATION SCHEME	DRAWING NO. 35620061775		REV 00	
									CKD.	MHN	SD/-	16/02/18			SHT. NO. 14		NO OF SHEETS	16
									APPD.	MAK	SD/-	16/02/18						

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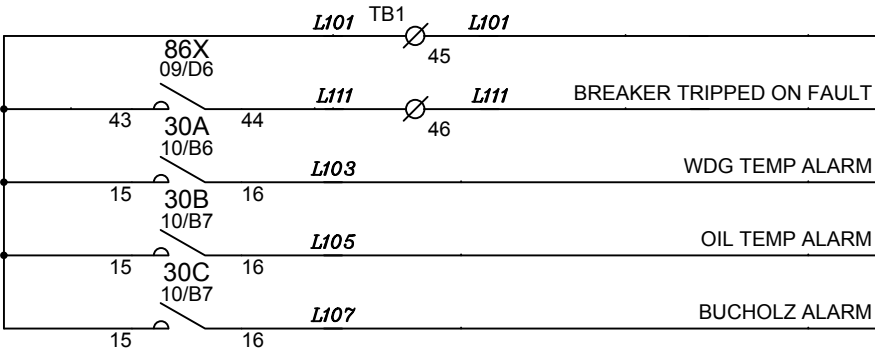
REF. DRG. NO.

SIGN & DATE

INVENTORY NO.

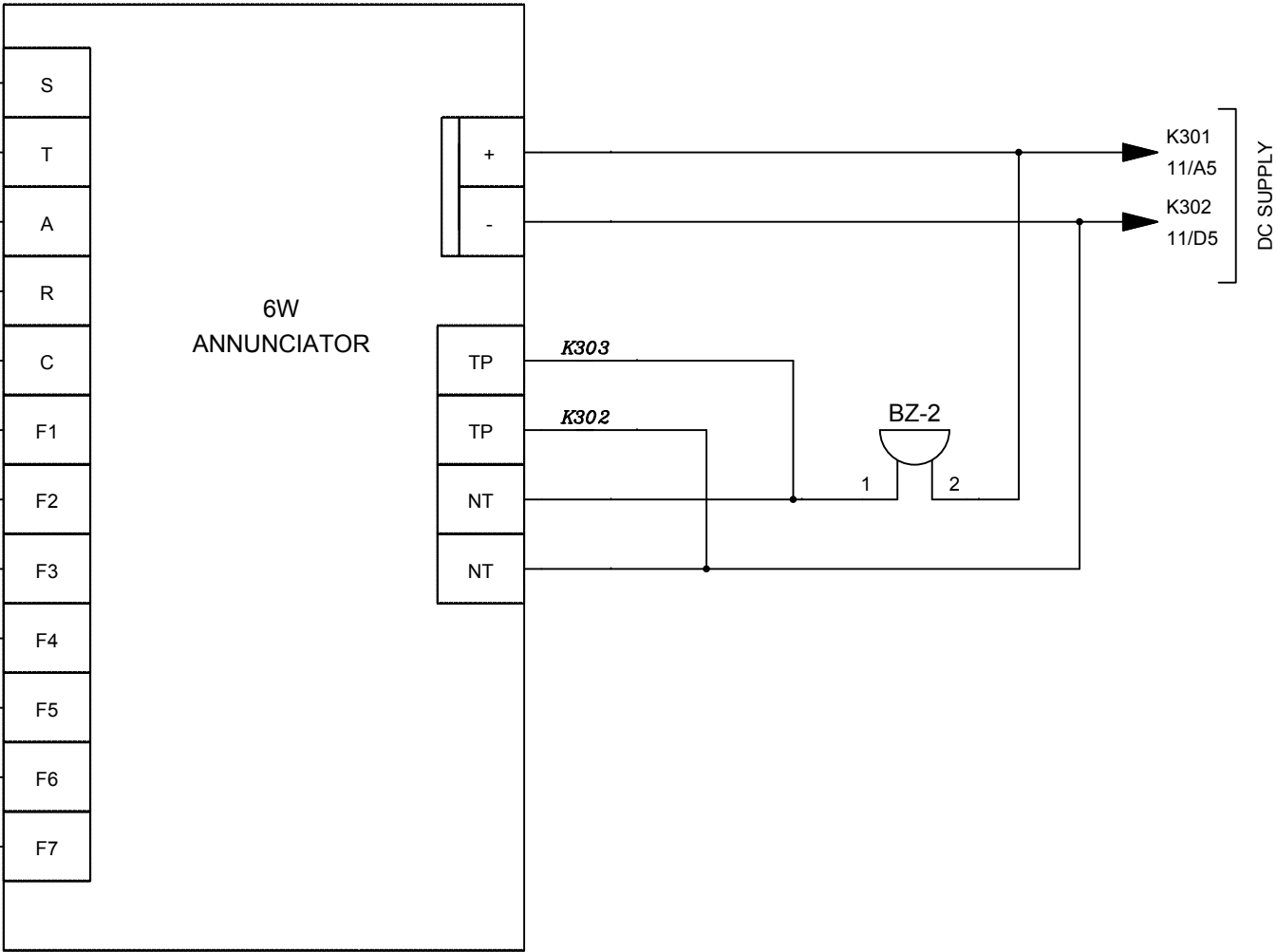
35620061775

DRAWING NO.



ANNUNCIATOR WINDOW DETAILS

F1 BREAKER TRIPPED ON FAULT	T	F5 SPARE
F2 WDG TEMP ALARM	NT	F6 SPARE
F3 OIL TEMP ALARM	NT	F7 SPARE
F4 BUCHOLZ ALARM	NT	



REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHECKED				CHECKED				CHECKED	
		APPROVED				APPROVED				APPROVED	

ZONE		ZONE		ZONE	

DEPT.	SWE		BHARAT HEAVY ELECTRICALS LTD. BHOPAL
CODE	409		

DRN.	NAME	SIGN	DATE	NO. OF	TITLE OUTDOOR CONTROL & RELAY PANEL ALARM ANNUNCIATOR
CKD.	NM	SD/-	16/02/18	VAR	
APPD.	MHN	SD/-	16/02/18		

OUTDOOR CRP FOR 11KV VCB APEPDCL VISHAKHAPATNAM			
DRAWING NO. 35620061775		REV 00	
SHT. NO. 15	NO OF SHEETS	16	

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REF. DRG. NO.

SIGN & DATE

INVENTORY NO.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

35620061775
DRAWING NO.

A

B

C

D

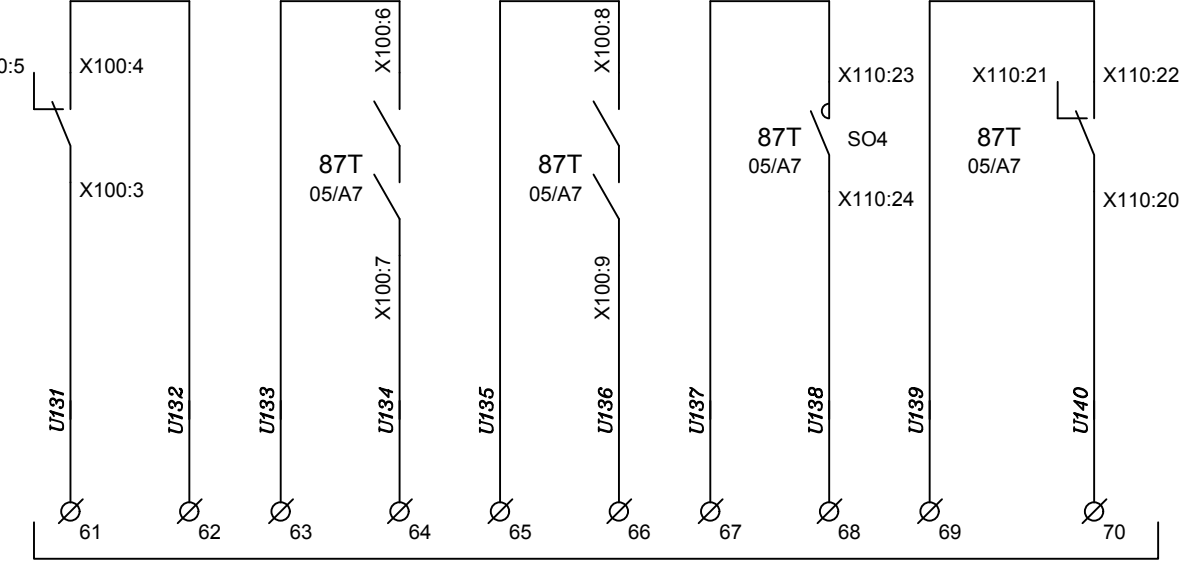
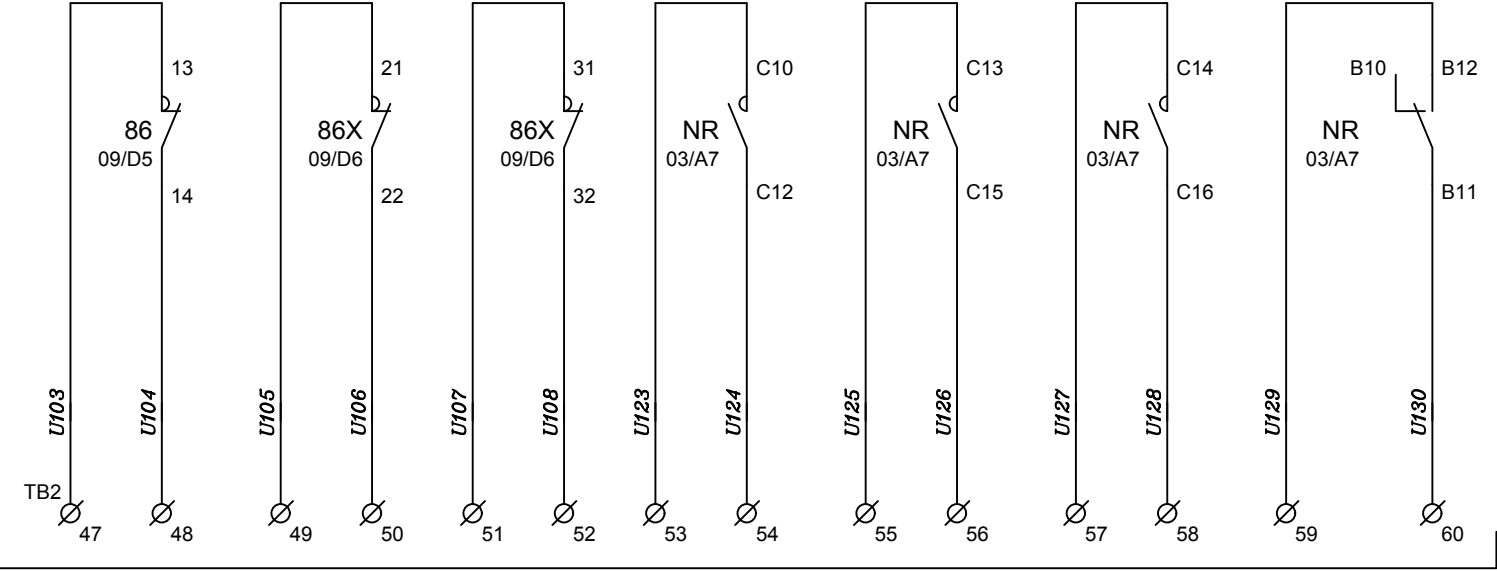
E

A

B

C

D



REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED		DEPT. SWE
		CHECKED				CHECKED				CHECKED		
		APPROVED				APPROVED				APPROVED		

ZONE		ZONE		ZONE		DRN.	NAME NM	SIGN SD/-	DATE 16/02/18	NO. OF VAR	TITLE OUTDOOR CONTROL & RELAY PANEL CONTACT DISTRIBUTION & SWITCH DETAIL	DRAWING NO. 35620061775		REV 00
						CKD.	MHN	SD/-	16/02/18			SHT. NO. 16	NO OF SHEETS	16
						APPD.	MAK	SD/-	16/02/18					



BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

OUTDOOR CRP FOR 11KV VCB
APEPDCL VISHAKHAPATNAM

OUTDOOR CONTROL & RELAY PANEL
CONTACT DISTRIBUTION &
SWITCH DETAIL

DRAWING NO.
35620061775
SHT. NO. 16
NO OF SHEETS
16