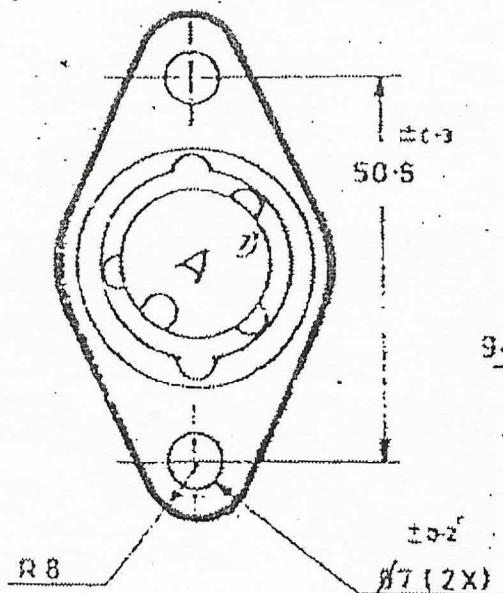
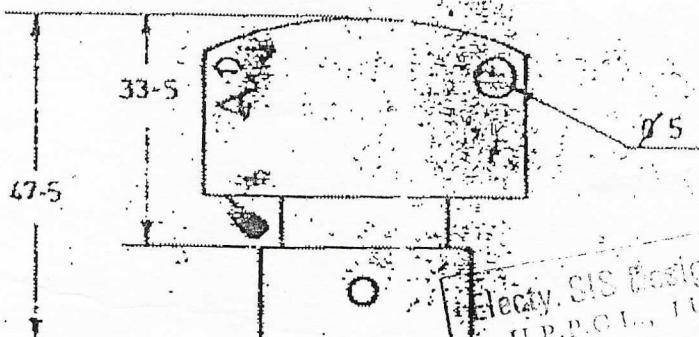


33KV AKOLA

33KV JACKBUS



LOCK



KEY

Electy. SIS Design Circle-II
U.P.P.C.L., LUCKNOW.

APPROVED

S.C.
D.G.M.

A.E.

LOCK TYPE AS PER DESIGN

| Prepared | Checked | Approved |
|-------------------------------------|--|---|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| without Sep. PL | <input type="checkbox"/> Sep. PL Same No | <input type="checkbox"/> Sep. PL Other No |
| Derived from IS 2167:0001-16 | Supersedes | Superseded by |
| Revision | | |

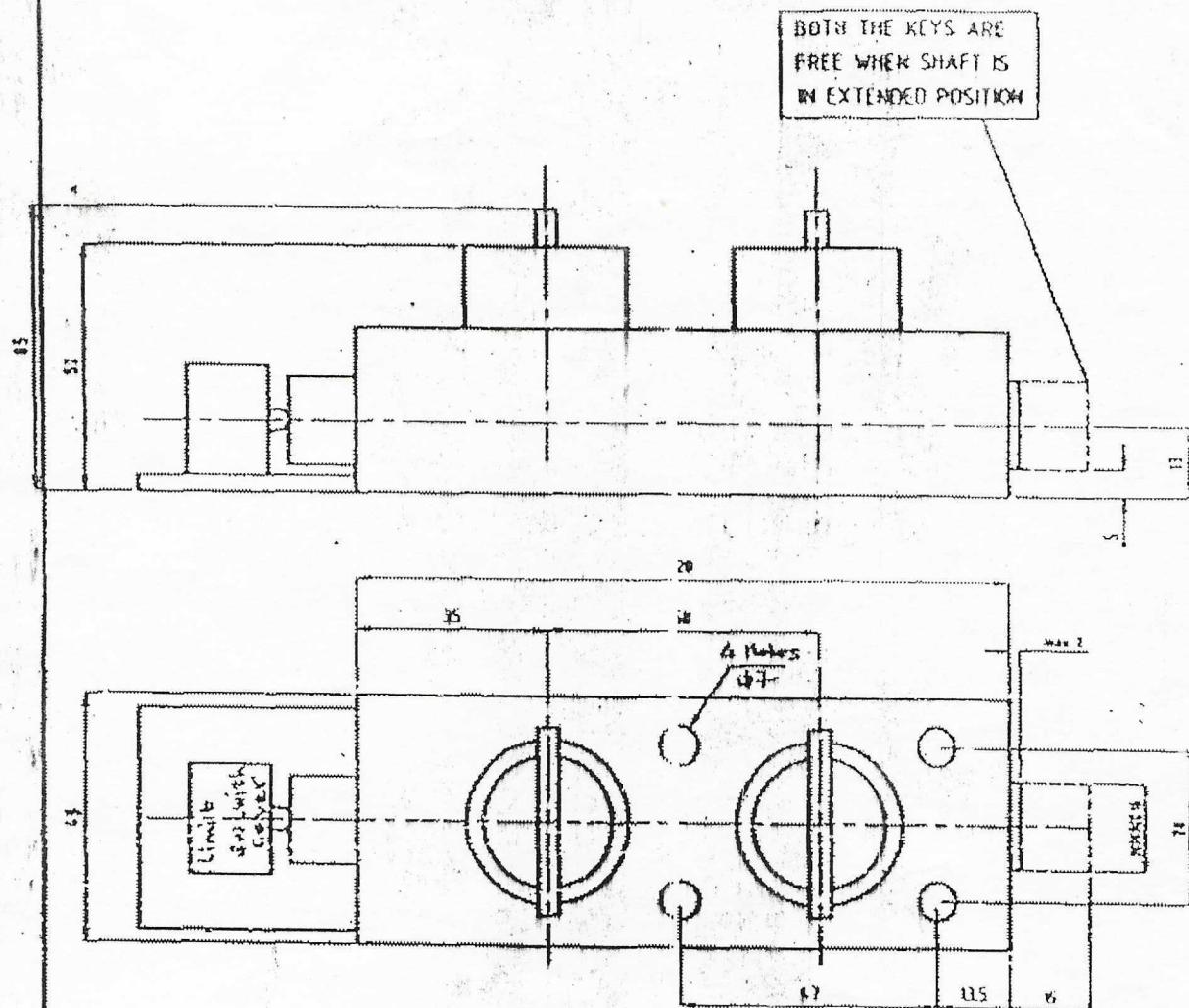
Title : ASTELL LOCK WITH TWO KEYS

FOR : VBF 36KV BREAKER

JOB REF. 9905628

Scale 1:10
NTS
Long
Sheet No. 2

IVYN402801-FY



- 1) CASTLE-LOCK SHALL BE WITH LIMITS-SWITCH CONTACTS (1N/O+1N/C)
AND LIMITS-SWITCH SHALL OPERATE WHEN SHAFT IS EXTENDED (KEYS ARE FREE)
 - 2) ENGRAVING ON THE LOCK & KEYS SHALL BE AS PER ENCLOSED DRAWING

CONDITION:

BOTH KEYS ARE FREE WHEN THE SHAFT IS EXTENDED (LOCKED POSITION)
BOTH KEYS ARE TRAPPED WHEN THE SHAFT IS RETRACTED (IN OPEN CONDITION)

| | | | | | | |
|------------------|------------------|---------|-------------------|----------|---------|-----------------------------------|
| Prepared | 2023/10 | Checked | 2023/10 | Approved | 2023/10 | |
| B&WV. | SD | | SD | | | Date |
| Without Sep. Pl. | Sep. Pl. Same No | | Sep. Pl. Other No | | | CASTLE LOCK ASSEMBLY for VBF36 |
| Derived from | Superseded by | | Superseded by | | | JOB REF NO. 9905628 |
| | | | Elect. SIS | ACTP | | 10/10/2023 |

reserve all rights in this document and in the
information contained therein. Reproduction, use or
distribution by third parties without express authority
is forbidden. AGB

1 2 3 4 5 6

BILL OF MATERIAL FOR ONE NO.36KV VACUUM CIRCUIT BREAKER

| REF | DESCRIPTION | MAKE | TYPE/PER VCB | REF | DESCRIPTION | MAKE | TYPE/PER VCB |
|--------|------------------------------|----------------|--------------|--------|---|-------------------|--------------|
| A1-11 | HRC FUSE CARTRIDGE 4A | GEPGJ | | F21 | DOUBLE CO.GLAND FOR 2CX2.5SDM | VINMECH/E0 | 4 |
| A1-12 | SHORING LINK | COOPER BUSSMAN | 1 | F22 | DOUBLE CO.GLAND FOR CX2.5SDM | VINMECH/E0 | 5 |
| A2-02 | TOGGLE SWITCHES,10A 240V AC | SWTRON/E0 | 2 | F24 | DOUBLE CO.GLAND FOR ECX2.5SDM | VINMECH/E0 | 3 |
| A2-03 | 3 PIN SOCKET,10A 240V AC | CROMPTON | 1 | F25 | DOUBLE CO.GLAND FOR 10CX2.5SDM | VINMECH/E0 | 1 |
| A3-01 | MCB SINGLE POLE & NEUTRAL 2A | EQVALENT | 1 | F01 | OUTDOOR CIRCUIT BREAKER WITH SPRING MECHANISM SUITABLE FOR 110V DC WITH CLOSING COILS | ABB | 1 |
| B10-01 | FOR MOTOR | MD5/ABB | 1 | F10-01 | SPACE HEATER,100W,240V AC | REPUTED | 1 |
| B10-02 | 2POLE,10A MCB FOR DC | MD5/ABB | 1 | B50-02 | NON-DISCONNECTING STUD TYPE TERMINAL BLOCKS. | ELMEX/VINNECH | 1 |
| B10-03 | 2POLE,6A MCB FOR AC | MD5/ABB | 1 | B10-04 | THERMOSTAT,SETTING 30-90 DEG. 15A,250V,50HZ | ILLUMINATING LAMP | CROMPTON/EQ |
| B10-13 | ANTI PUMPING RELAY, 110V DC | JYOTI/ABB/EQ | 1 | B10-12 | OPEN | EQUIVALENT | 1 |
| B10-14 | LOCAL-REMOTE SEL.SWITCH | SWTRON/E0 | 1 | B10-13 | TESTING BUSHES (BANANA PINS) | REPUTED | 4 |
| B10-15 | BREAKER CONTROL SWITCH | | 1 | B10-14 | RESISTORS 1K OHM, 10 WATTS | REPUTED | 1 |
| B10-16 | CASTELL LOCK WITH 2 KEYS & | PATLON/E0 | 1 | B10-05 | DOOR LIMIT SWITCH | KAYCEE/EQ | 1 |
| B10-21 | LIMIT SWITCH | | 1 | | | | 1 |

TOTAL NO OF OUTDOOR VCBS - 200 NOS.

- SPARES: --
1. TRIPPING COILS - 200 NOS
 2. CLOSING COILS - 200 NOS.

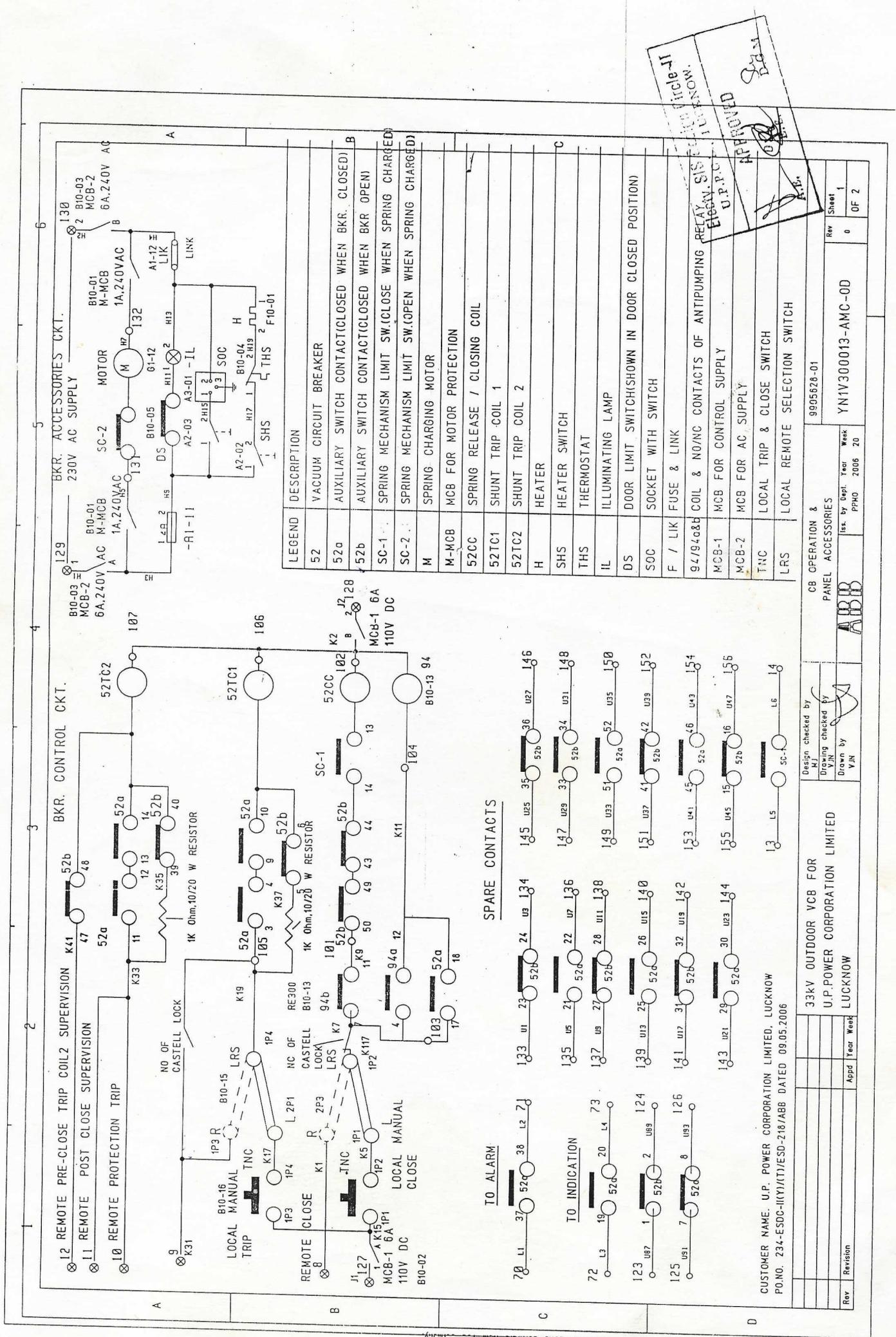
NOTE:
EO- EQUIVALENT
REPUTED- ANY REPUTED MAKE

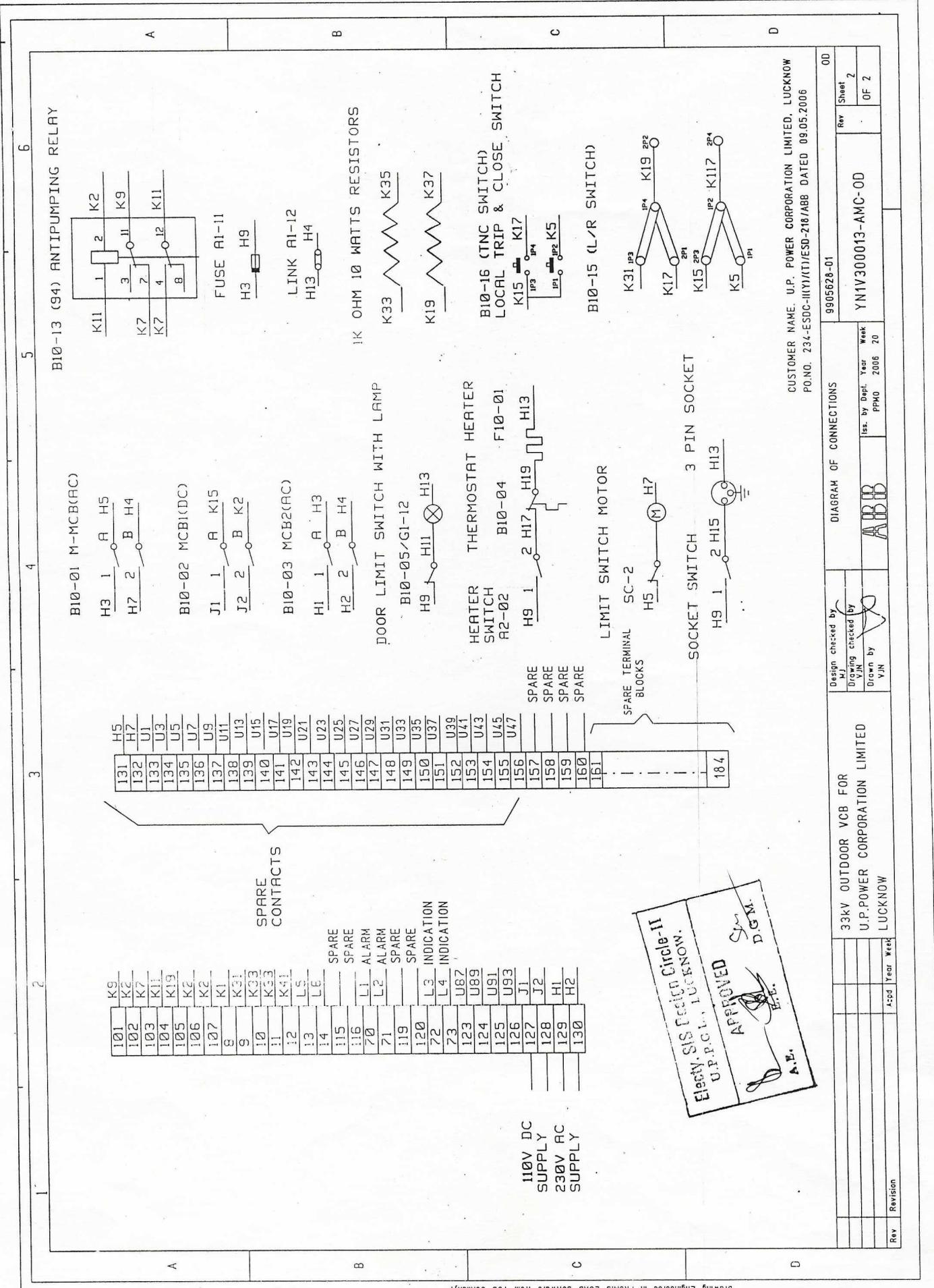


CUSTOMER NAME: U.P. POWER CORPORATION LIMITED, LUCKNOW
P.O.NO. 23-E.SDC-HH-111111-SD-213/ABB DATED 09.05.2006

| Rev | Revision | APPARATUS ALLOCATION CHART FOR | | | Alloc |
|-----|----------|--------------------------------|----------------------------|--|--------------------------------------|
| | | Design checked by M.J. | Drawing checked by V.N. | O/D CIRCUIT BREAKER Iss. by Dept. Year Week | |
| | | | | ABB | YN1V300011-AMC-ALLOC PPHO 2005 20 |

| | |
|---|--|
| Drawing Engineered in PROTHIS ECD Software from TCS Dynamix | Customer Name: U.P. POWER CORPORATION LIMITED, LUCKNOW |
| Ref No: 23-E.SDC-HH-111111-SD-213/ABB DATED 09.05.2006 | Alloc |
| Approved by: | Signature |
| Date: | Year |
| Revised by: | Week |





We reserve all rights in this documents and in the information contained therein. Reproduction, use or disclosure to third parties without express authority is strictly forbidden. ABB.

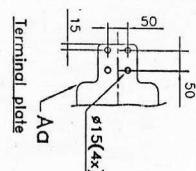
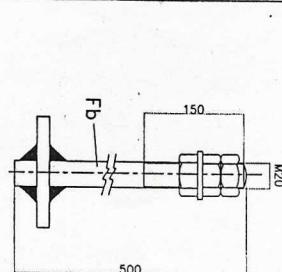
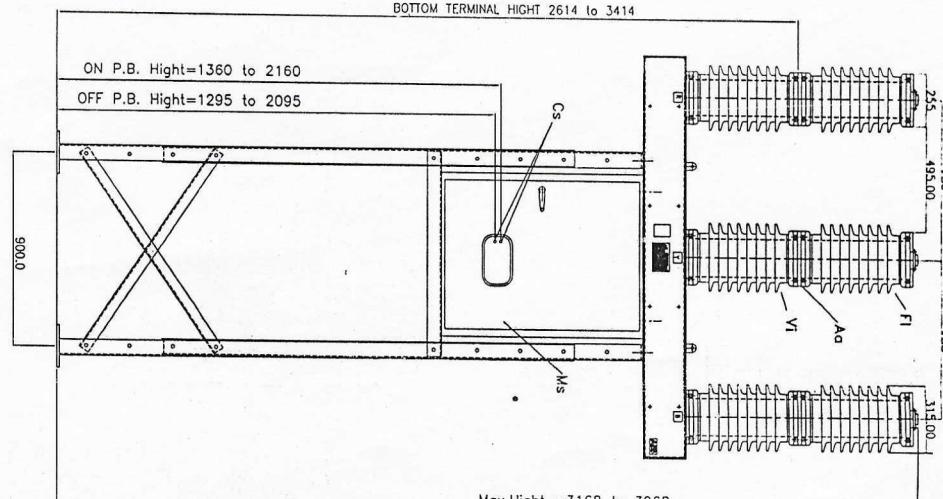
1

1VYN401189-P

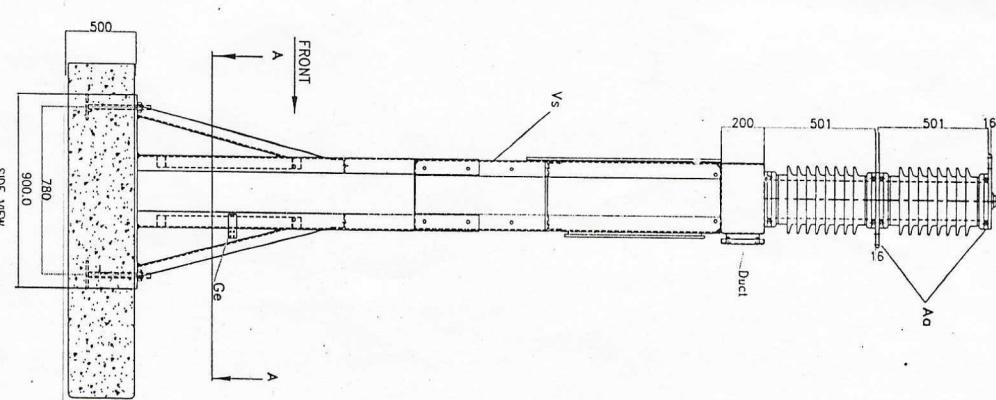
Ao Terminals(A,alloy)
Cs Position indicator ON-OFF,Mech Counter
Fl Interrupting chamber
Fb Foundation bolt(M20)
Ge Earthing point(Galvanising Buss.)
Ms Control cubicle with spring drive
Vi Supporting insulator column
Vs Supporting structure(Galvanised steel structure)
VCTs CT Supporting structure(Galvanised steel structure)
Total weight 900Kgs approx.
Creepage distance of bushing insulator 900 mm (Minimum)
Paint shade for control cabinet: 631 of IS 5 (Light Grey)
Rated voltage: 36kV
Colour of insulator: Brown
Dynomatic load 20KN approx.

Max.Hight = 3168 to 3968

BOTTOM TERMINAL HIGHT 2614 to 3414



Foundation Plinth details



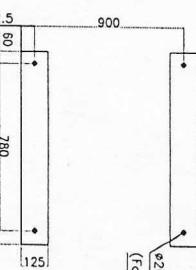
FRONT VIEW

Foundation Plinth details

Customer Name: U.P. Power Corporation Limited

PO.NO.234-ESDC-II(Y)/(T)/ESD-218/ABB Dated 09.05.2006

| Preferred V/N | Checked V/N | Approved MJ | Title GENERAL ARRANGEMENT DRG | Scale D |
|----------------|----------------|-----------------|-----------------------------------|------------|
| Without Sep PL | Sep PL Same No | Sep PL Other No | FOR 33KV OUTDOOR VCB | |
| Derived from | Supersedes | Superseded by | TYPE VBF36 FOR UPPCL, LUCKNOW, UP | |
| Revision | | | JOB NO.9905628 | Told Sq. 1 |
| | | | | Sheet 1 |



SIDE VIEW

Φ20-4 holes For C.B. mig

Electrical S.I.S Design Circle-II
U.P.C.I., LUCKNOW.

APPROVED

E.E.

D.G.M. Detail for Earthing

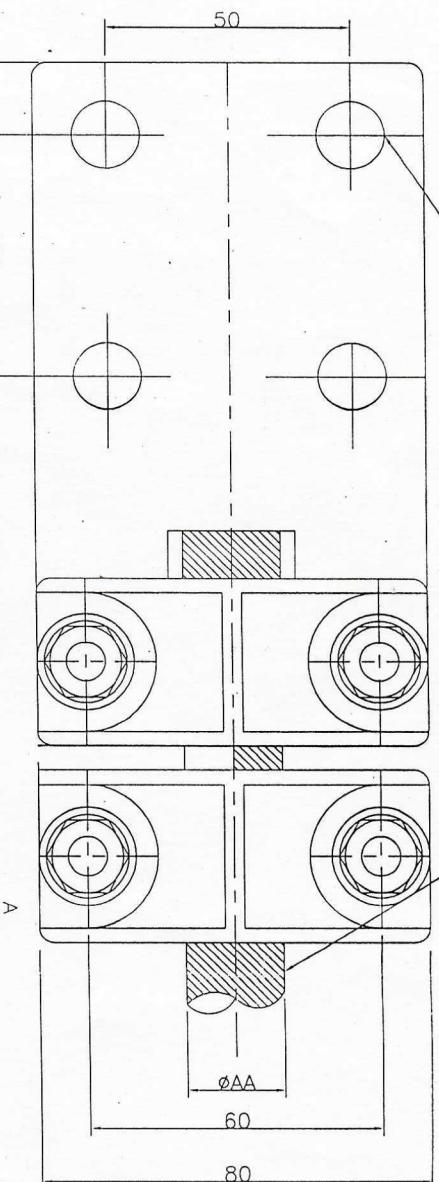
1VYN402889-F

PART LIST

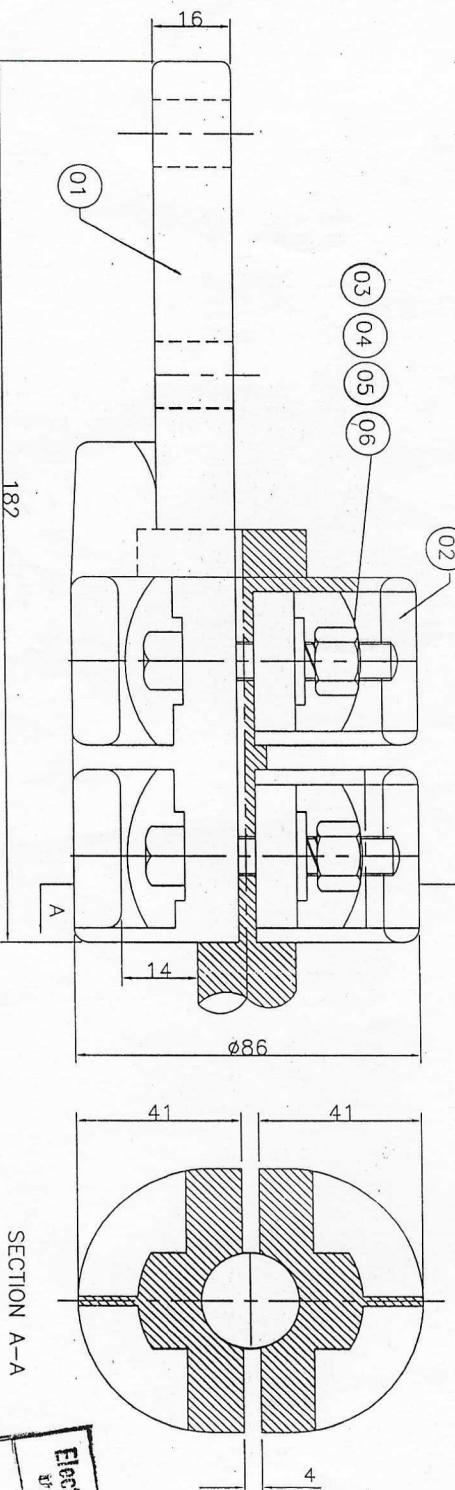
| SR.NO | DESCRIPTION | QTY | MATERIAL |
|-------|------------------|-----|------------------|
| 1 | CLAMP BODY | 1 | ALU. ALLOY |
| 2 | CAP | 2 | ALU. ALLOY |
| 3 | M10 HEX HD BOLT | 4 | M.S.HOT DIP GAL. |
| 4 | M10 HEX.NUT | 4 | M.S.HOT DIP GAL. |
| 5 | Ø10 PLAIN WASHER | 4 | M.S.HOT DIP GAL. |
| 6 | SPRING WASHER | 4 | SP. STEEL GAL. |

4 HOLES Ø14

A.C.S.R CONDUCTOR



- NOTE: 1) ALL NUTS, BOLTS, PLAIN WASHER WILL BE HOT DIP GALVANISED, SPRING WASHERS WILL BE ELECTRO GALVANISED.
 2) BOLT TIGHTENING TORQUE M10 - 35NM & M12 - 48NM
 3) CONTINUOUS CURRENT RATING - 1600 Amps.
 4) APPROX. WEIGHT - 1.200 Kg.
 5) NOMINAL SYSTEM VOLTAGE - 33kV
 6) SHORT TIME CURRENT RATING - 26.3 kA - 3Sec.



SECTION A-A

TOLERANCE: 0 TO 50 - 5%

| | |
|-------------------------------|--------|
| Electric SIS Design Circle-II | |
| E.P.P.C., LUCKNOW. | |
| APPROVED | S. |
| A.E. | D.S.M. |

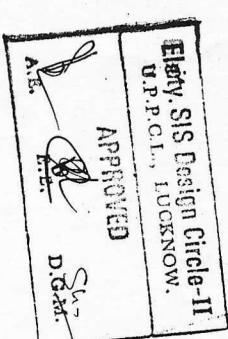
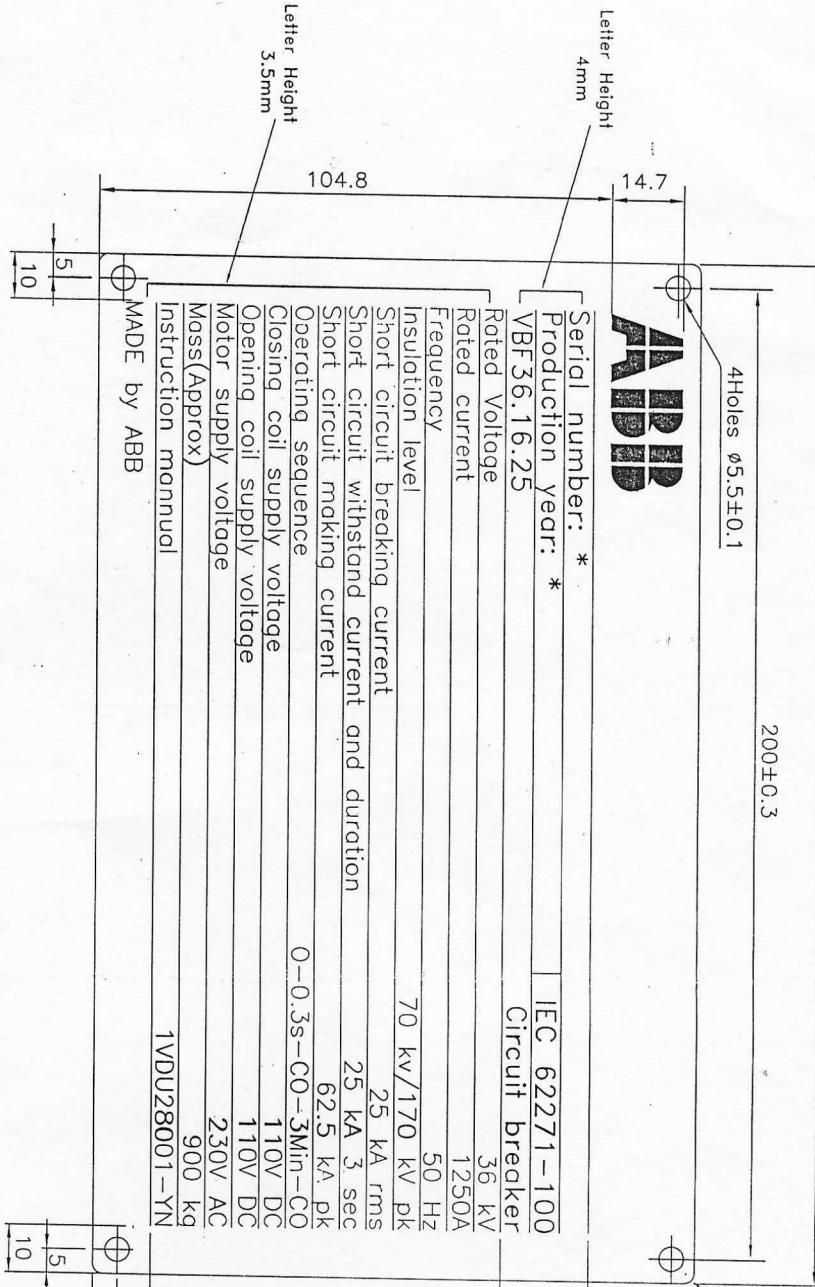
We reserve all rights in this documents and in the information contained therein. Reproduction, use or disclosure to third parties without express authority is strictly forbidden. ABB.

| A.C.S.R / TYPE | SIZE ØAA | SUB.NO. | A.C.S.R. | SIZE ØAA | SUB.NO. |
|----------------|----------|---------|----------|----------|---------|
| -DOG- | 14.15- | A | DRAKE | 28.15- | F |
| WOLF | 18.13- | B | ZEBRA | 28.62- | G |
| PANTHER | 20.98 | C | DEER | 29.89- | H |
| 400MM- AAAC | 25.97- | D | GAME | 30.45- | J |
| KUNDAH | 26.30- | E | MOOSE | 31.77 | K |

TOLERANCE: 0 TO 50MM - 5%
 50 TO 100MM - 4%
 ABOVE 100MM - 3%

| | | | |
|--------------|----------|---------------|----------------------|
| W.B | Approved | P.D.D | Title |
| W.B. | Approved | P.D.D | TERMINAL CONNECTOR |
| W.B. | Approved | P.D.D | FOR VBF 36KV BREAKER |
| Derived from | Sup. by | Superseded by | UPPCL-LUCKNOW |
| EEU-64WT | | | JOB. NO. 9905628 |
| Printed on | | | Total Sh. 1 |
| Printed on | | | Sheet 1 |

We reserve all rights in this documents and in the information contained therein. Reproduction, use or disclosure to third parties without express authority is strictly forbidden. ABB.



Customer Name: U.P.Power Corporation Limited
P.O.No.234-ESDC-II(Y)/(T)/ESD-218/ABB Dated 09.05.2006

| Article No. | Dimensions | Material, type, etc | Name of item |
|----------------------|--------------------------------------|---------------------|--------------|
| S.S. Sheet t=0.7 mm. | Steel 07Cr18Ni9 as per IS:6611-72 | | |

- * To be filled up by planning Dept.
- *** To be taken from order specification.
- Text, line to be photoetched (Etching depth 0.2 min.) or laser engraved on natural back ground.(Black colour)
- ABB logo on natural background (Red colour-RAL3020)
- Blank text is to be engraved at ABB.
- General tolerance as per IN 2002 1030