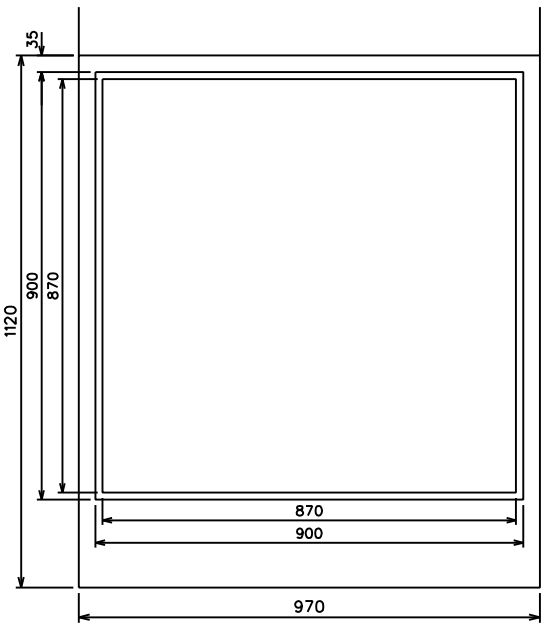
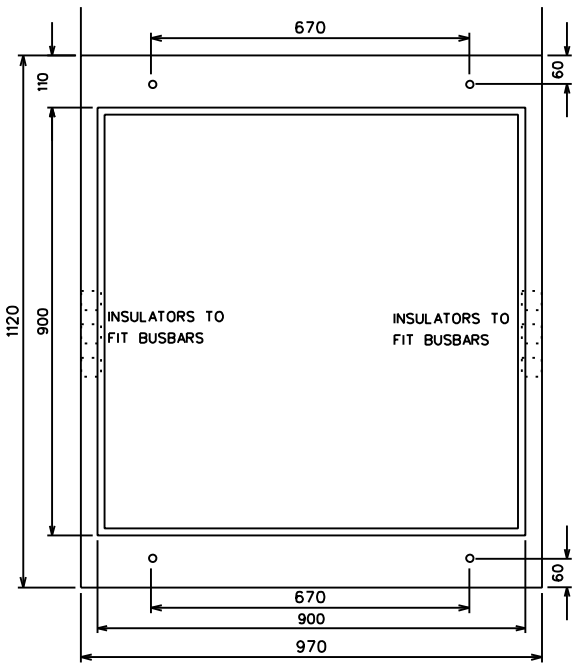
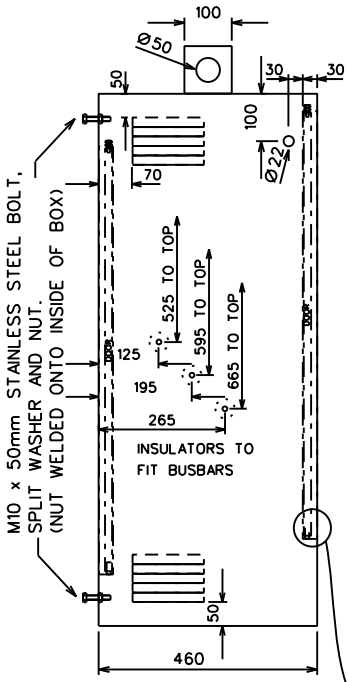


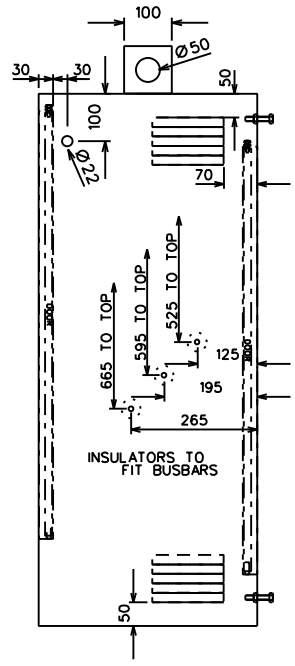
FRONT VIEW



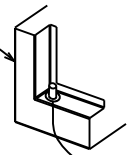
BACK VIEW



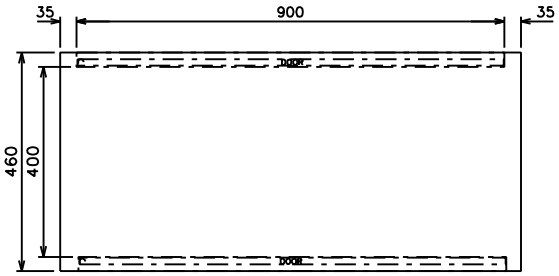
LEFT VIEW



RIGHT VIEW



HINGE: 20mm LONG STUD & WASHER WELDED ONTO FRAME FOR THE FITMENT OF THE DOOR



TOP VIEW

NOTES:

1. THE KIOSK SHALL BE MANUFACTURED FROM 3CR12 (1.5mm THICKNESS).
2. THE DOOR SURROUNDS SHALL BE RECESSED AND SHALL INCORPORATE A SPLASH PROOF 15mm LIP AROUND THE ENTIRE PERIMETER.
3. THE DOORS SHALL BE MOUNTED FLUSH TO THE SPLASH PROOF LIP.
4. BOTH DOORS SHALL BE HINGED ON THE LEFT SIDE OF THE KIOSK (AS SEEN FROM THE FRONT).
5. THE HINGES OF THE DOOR SHALL BE AT LEAST 8mm IN DIAMETER. THE TOP HINGE SHALL BE AN 8mm S/S NUT WELDED ONTO THE TOP OF THE DOOR SILL THROUGH WHICH A 20mm SET SCREW CAN BE SCREWED INTO THE HINGE HOLE OF THE DOOR.
6. VERMIN PROOF LOUVERS SHALL BE PROVIDED AS SHOWN IN THE DRAWINGS. THERE SHALL BE AT LEAST 5 LOUVRES IN EACH POSITION WITH AN EFFECTIVE WIDTH FOR EACH LOUVRE OF 150mm. THE GAPS IN THE LOUVRES SHALL BE BETWEEN 1mm - 2.5mm. A STAINLESS STEEL MESH SHALL BE SPOT WELDED ONTO THE BACK OF EACH LOUVRE - THE OPENINGS IN THE MESH SHALL BE SMALLER THAN 2mm.
7. 22mm HOLES SHALL BE PROVIDED WITH RUBBER / PLASTIC COVERS ON THE TOP OF BOTH SIDES OF THE KIOSK.
8. 40mm HIGH M10 FIBRE GLASS INSULATORS (INSERT TYPE) WITH A DIAMETER OF 40mm SHALL BE FITTED TO BOTH SIDES OF THE KIOSK TO SUPPORT AND FIT THE BUSBARS ONTO.
9. THE KIOSK SHALL BE POWDER COATED WITH LIGHT NAVY GREY POLYESTER POWDER (SABS COLOR CODE G35).

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
13	REMOVED 100kVA OPTION, SURGE ARRESTOR ON NEUTRAL	P.A.T.				
12	INNER PLATE LAYOUT CHANGED, ADDED LEVER LOCK BOX	P.A.T.	HPD G	HPD G	11/07/2014	
11	CHANGE ABB MCCB TYPE REFERENCES AND VOLTEX MCCB ADDED	P.A.T.	HPD G	HPD G	01/11/2011	
10	DOOR DESIGN CHANGED, MCBs & PHASE FAILURE BASE WIRING REMOVED	HPD G	HPD G	HPD G	05/02/2010	
9	VARIOUS AMMENDMENTS MADE	HPD G	HPD G	HPD G	14/12/2006	
8	INSULATOR DIMENSIONING SPECIFIED, BUSBARS CHANGED	HPD G	R K	PR G	01/11/2006	
7	TOTAL DESIGN CHANGE	HPD G	G M	PR G	01/08/2005	
6	INNERPLATE MCCB CUT-OUT, BASE, NEUTRAL BAR, WIRING CHANGED	HPD G	G M	PR G	01/06/2003	

Eskom Distribution

AUTH: PR GROENEWALD
DATE: 01/06/2003
CHKD: HPD GROENEWALD
DATE: 01/06/2003
DRAWN: HPD GROENEWALD P VERMAAK
DATE: 12/07/1996

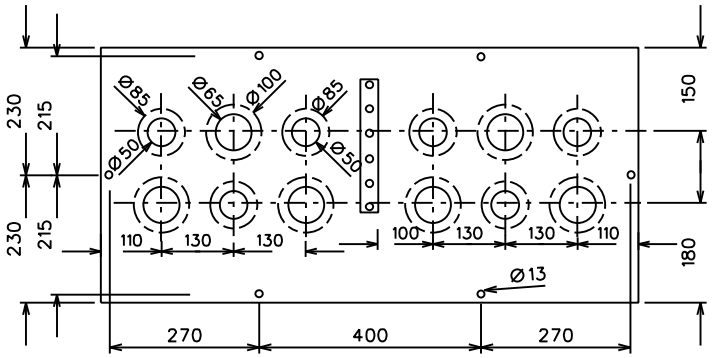
METER KIOSK
200 - 500kVA LPU
MANUFACTURING DETAILS
BOX

D-DT-1000

SET	SHEET	REVISION
10	1	13

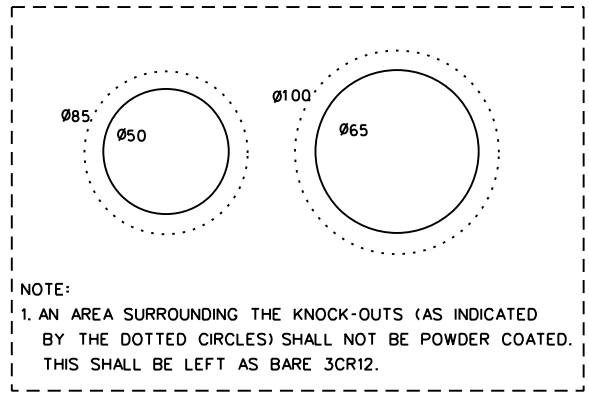
SIZE GROOTTE A3L

AS FROM BACK

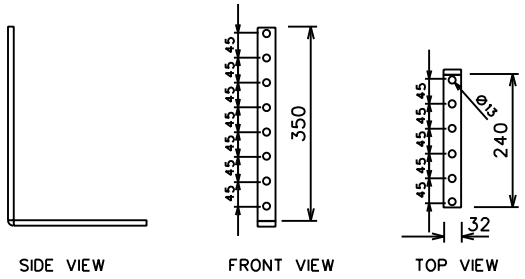


AS FROM FRONT

INSIDE VIEW SHOWING GLAND PLATE DETAILS



NOTE:
1. AN AREA SURROUNDING THE KNOCK-OUTS (AS INDICATED BY THE DOTTED CIRCLES) SHALL NOT BE POWDER COATED. THIS SHALL BE LEFT AS BARE 3CR12.



SIDE VIEW FRONT VIEW TOP VIEW

DETAILS OF NEUTRAL / EARTH BAR

NOTES:
1. ALL THE HOLES ON THE BOTTOM OF THE KIOSK SHALL BE FITTED WITH SQUARE KNOCK-OUTS WELDED ONTO ONE CORNER.
2. THE NEUTRAL / EARTH BAR SHALL BE A 32x10mm FLAT TINNED COPPER BAR SITUATED ON THE INNER PLATE AND BOTTOM OF THE KIOSK.
3. THE NEUTRAL / EARTH BAR SHALL BE FASTENED 50mm AWAY FROM THE INNER PLATE AND BOTTOM OF THE KIOSK.
4. ALL OF THE NEUTRAL / EARTH BAR'S HOLES SHALL BE FITTED WITH M12 35mm STAINLESS STEEL BOLTS, NUTS AND SPRING WASHERS.

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
13	REMOVED 100kVA OPTION, SURGE ARRESTOR ON NEUTRAL	P.S.T.				
12	INNER PLATE LAYOUT CHANGED, ADDED LEVER LOCK BOX	P.S.T.	HPD G	HPD G	01/11/2011	
11	CHANGE ABB MCCB TYPE REFERENCES AND VOLTEX MCCB ADDED	P.S.T.	HPD G	HPD G	01/11/2011	
10	DOOR DESIGN CHANGED, MCBs & PHASE FAILURE BASE WIRING REMOVED	HPD G	HPD G	HPD G	05/02/2010	
9	VARIOUS AMMENDMENTS MADE	HPD G	HPD G	HPD G	14/12/2006	
8	INSULATOR DIMENSIONING SPECIFIED, BUSBARS CHANGED	HPD G	R K	PR G	01/11/2006	
7	TOTAL DESIGN CHANGE	HPD G	G W	PR G	01/08/2005	
6	INNERPLATE MCCB CUT-OUT, BASE, NEUTRAL BAR, WIRING CHANGED	HPD G	G W	PR G	01/06/2003	

Eskom Distribution

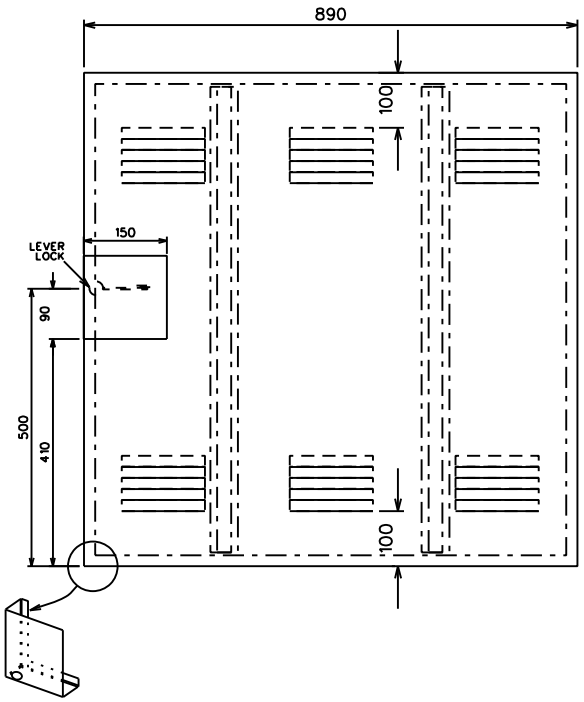
AUTH:	PR GROENEWALD
DATE:	01/06/2003
CHKD:	HPD GROENEWALD
DATE:	01/06/2003
DRAWN:	HPD GROENEWALD P VERMAAK
DATE:	12/07/1996

METER KIOSK
200 - 500kVA LPU
MANUFACTURING DETAILS
BOTTOM OF BOX

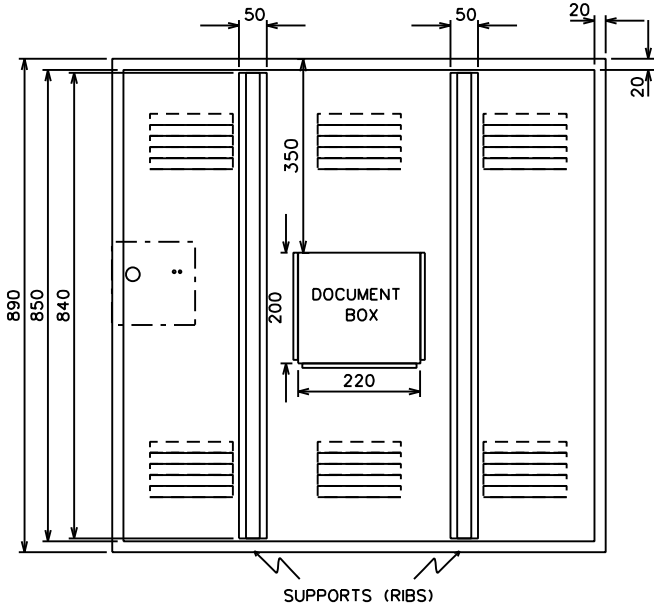
D-DT-1000

SET	SHEET	REVISION
10	2	13

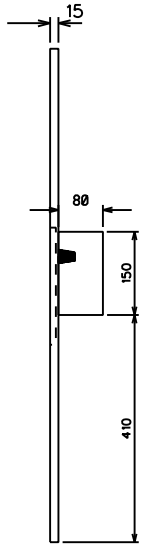
SIZE GROOTTE A3L



BACK DOOR



FRONT DOOR
(AS FROM INSIDE)



LEFT VIEW

NOTES:

1. THE DOORS SHALL BE FITTED WITH STAINLESS STEEL 3-WAY LEVER LOCKS (HORIZONTAL FITMENT). ALL PARTS OF THE LEVER LOCK SHALL BE STAINLESS STEEL. THE HOLES IN THE LEVER LOCK FOR THE PADLOCK SHALL HAVE A DIAMETER OF AT LEAST 12mm.
2. A PROTECTIVE BOX SHALL BE FITTED OVER THE LEVER LOCK. THE BOX SHALL BE OPEN ON THE BOTTOM. THE BOX SHALL HAVE 5 x 20mm SLOTTED HOLES OVER THE ENTIRE SURFACE AREA (TOP AND SIDES) SPACED NOT MORE THAN 10mm APART.
3. THE HINGES OF THE DOOR SHALL BE AT LEAST 8mm IN DIAMETER. THE TOP HINGE SHALL BE AN 8mm S/S NUT WELDED ONTO THE TOP OF THE DOOR SILL THROUGH WHICH A 20mm SET SCREW CAN BE SCREWED INTO THE HINGE HOLE OF THE DOOR.
4. THE FRONT DOOR SHALL BE HINGED ON THE LEFT SIDE (AS SEEN FROM THE FRONT)
5. THE BACK DOOR SHALL BE HINGED ON THE RIGHT SIDE (AS SEEN FROM THE BACK)
6. A RUBBER SEAL SHALL BE FITTED AROUND THE ENTIRE INSIDE PERIMETER OF THE DOOR TO ENSURE TIGHT SEALING AGAINST THE CHANNEL OF THE BOX.
7. VERMIN PROOF LOUVRES SHALL BE PROVIDED AS SHOWN IN THE DRAWINGS. THERE SHALL BE AT LEAST 5 LOUVRES IN EACH POSITION WITH AN EFFECTIVE WIDTH OF 150mm FOR EACH LOUVRE. THE GAPS IN THE LOUVRES SHALL BE BETWEEN 2mm- 5mm. A STAINLESS STEEL MESH WITH OPENINGS SMALLER THAN 2mm SHALL BE SPOT WELDED ONTO THE BACK OF ALL LOUVRES.
8. A STURDY DOOR STAY OF NON-FERROUS METAL SHALL BE FITTED TO EACH DOOR.
9. A DOCUMENT BOX (20mm DEPTH) WITH A TOP OPENING SHALL BE FITTED TO THE BACK OF THE FRONT DOOR.
10. TWO RIBS (SUPPORTS) SHALL BE WELDED ONTO THE BACK OF EACH DOOR TO ENHANCE THE RIGIDITY OF THE DOOR.
11. FOUR 5mm DIAMETER WATER DRAIN HOLES SHALL BE PROVIDED ON THE BOTTOM SILL OF THE DOOR.
12. A STANDARD DANGER SIGN (SABS 1186) SHALL BE FITTED ON THE FRONT OF BOTH DOORS.

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
13	REMOVED 100kVA OPTION, SURGE ARRESTOR ON NEUTRAL	P.A.T.				
12	INNER PLATE LAYOUT CHANGED, ADDED LEVER LOCK BOX	P.A.T.	MPD G	MPD G	11/07/2014	
11	CHANGE ABB MCCB TYPE REFERENCES AND VOLTEX MCCB ADDED	P.A.T.	MPD G	MPD G	05/02/2010	
10	CHANGED DOOR DESIGN, MCBs & PHASE FAILURE BASE WIRING REMOVED	MPD G	MPD G	MPD G	05/02/2010	
9	VARIOUS AMENDMENTS MADE	MPD G	MPD G	MPD G	14/12/2006	
8	INSULATOR DIMENSIONING SPECIFIED, BUSBARS CHANGED	MPD G	R K	PR G	01/11/2006	
7	TOTAL DESIGN CHANGE	MPD G	G M	PR G	01/08/2005	
6	INNERPLATE MCCB CUT-OUT, BASE, NEUTRAL BAR, WIRING CHANGED	MPD G	G M	PR G	01/06/2003	

Eskom Distribution

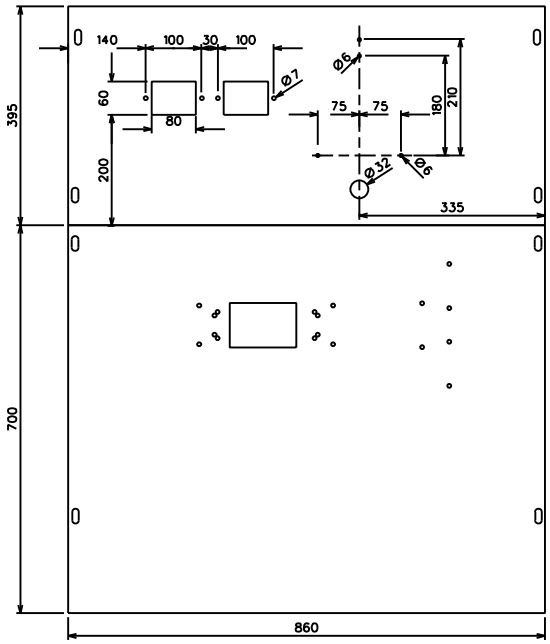
AUTH: PR GROENEWALD
DATE: 01/06/2003
CHKD: MPD GROENEWALD
DATE: 01/06/2003
DRAWN: MPD GROENEWALD P VERMAAK
DATE: 12/07/1996

METER KIOSK
200 - 500kVA LPU
MANUFACTURING DETAILS
DOORS

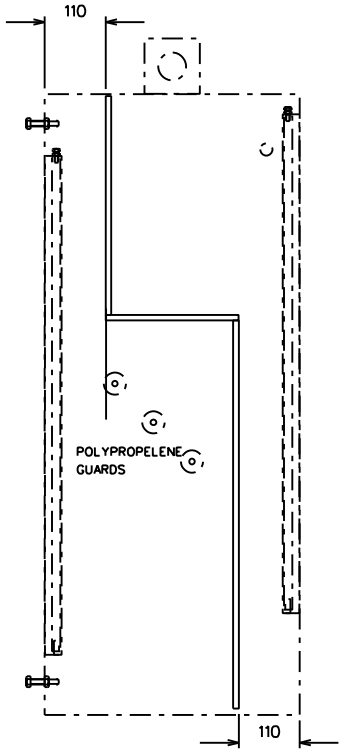
D-DT-1000

SET	SHEET	REVISION
10	3	13

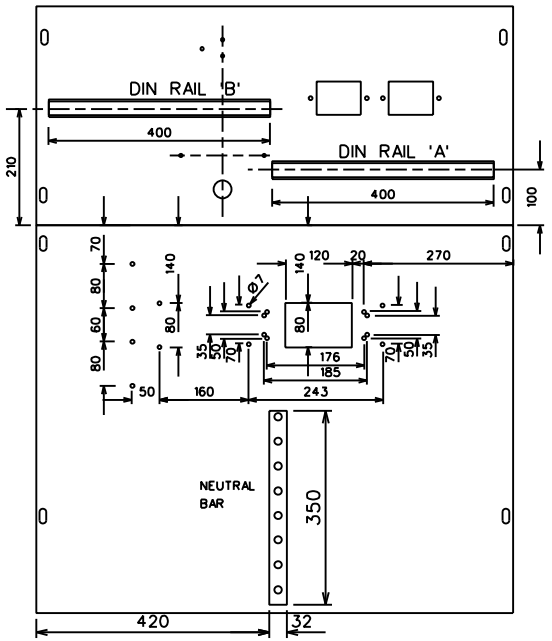
SIZE GROOTTE A3L



FRONT VIEW



SIDE VIEW



BACK VIEW

NOTES:

1. THE INNER PLATES SHALL BE MANUFACTURED FROM 1.5mm 3CR12.
2. ALL SIDES SHALL HAVE A 90 DEGREE 10mm BEND.
3. THE INNER PLATES SHALL BE SECURED TO THE KIOSK BY MEANS OF EIGHT M6 STAINLESS STEEL SET SCREWS OR STUDS, NUTS AND SPRING WASHERS.
4. DIN RAIL 'A' SHALL BE SECURED 50mm AWAY FROM THE INNER PLATE BY MEANS OF M6 STAINLESS STEEL SET SCREWS OR STUDS, NUTS AND SPRING WASHERS.
5. DIN RAIL 'B' SHALL BE SECURED ONTO THE INNER PLATE BY MEANS OF STAINLESS STEEL SET SCREWS, NUTS AND SPRING WASHERS, RIVETS OR SPOT WELDING.
6. STAINLESS STEEL OR BRASS SELF CLINCHING NUTS OR RIVET NUTS WITH A M4 OR M5 THREAD SIZE SHALL BE INSTALLED ON ALL THE HOLES USED FOR THE FITMENT OF THE METER. STAINLESS STEEL OR BRASS SET SCREWS SHALL BE FITTED TO ALL OF THESE HOLES.
7. TWO TRANSPARENT POLYPROPOLENE PLATES (400mm x 200mm x 3mm) SHALL BE FITTED WITH FOUR SET SCREWS ONTO THE INNER PLATE THAT WILL ACT AS GUARDS OVER THE BUSBARS ON THE CIRCUIT BREAKER.
8. A TRANSPARENT POLYPROPOLENE COVER PLATE SHALL BE FITTED OVER THE TEST BLOCK BACK TERMINALS TO PREVENT ELECTRICAL CONTACT
9. THE EARTH / NEUTRAL BAR SHALL BE FASTENED BY MEANS OF TWO 40mm HIGH INSULATORS (40 mm DIAMETER) ONTO THE INNER PLATE.
10. THE INNER PLATE SHALL BE POWDER COATED WITH WHITE EPOXY POLYESTER POWDER (SABS COLOR CODE 69-0135).

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
13	REMOVED 100kVA OPTION, SURGE ARRESTOR ON NEUTRAL	P.A.T.				
12	INNER PLATE LAYOUT CHANGED, ADDED LEVER LOCK BOX	P.A.T.			11/07/2014	
11	CHANGE ABB MCCB TYPE REFERENCES AND VOLTEX MCCB ADDED	P.A.T.	HPD G	HPD G	05/02/2010	
10	CHANGED DOOR DESIGN, MCBs & PHASE FAILURE BASE WIRING REMOVED	HPD G	HPD G	HPD G	05/02/2010	
9	VARIOUS AMMENDMENTS MADE	HPD G	HPD G	HPD G	14/12/2006	
8	INSULATOR DIMENSIONING SPECIFIED, BUSBARS CHANGED	HPD G	R K	PR G	01/11/2006	
7	TOTAL DESIGN CHANGE	HPD G	G M	PR G	01/08/2005	
6	INNERPLATE MCCB CUT-OUT, BASE, NEUTRAL BAR, WIRING CHANGED	HPD G	G M	PR G	01/06/2003	

Eskom Distribution

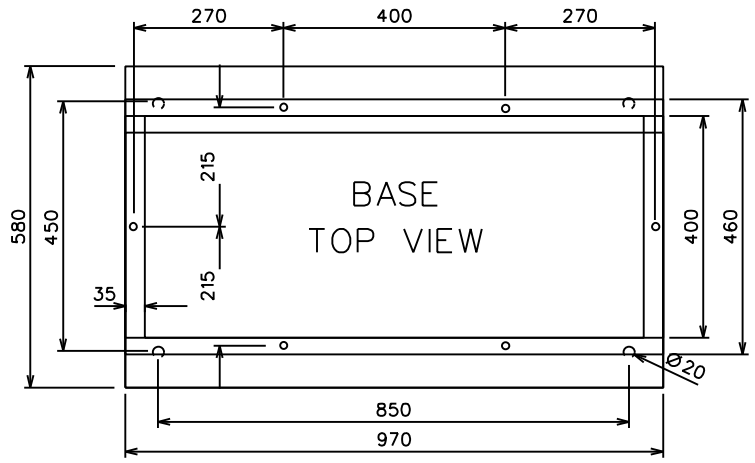
AUTH:	PR GROENEWALD
DATE:	01/06/2003
CHKD:	HPD GROENEWALD
DATE:	01/06/2003
DRAWN:	HPD GROENEWALD P VERMAAK
DATE:	12/07/1996

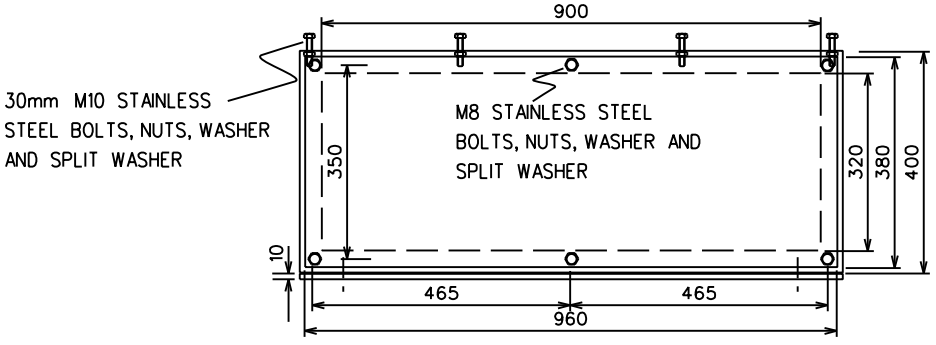
METER KIOSK
200 - 500kVA LPU
MANUFACTURING DETAILS
INNER PLATE

D-DT-1000

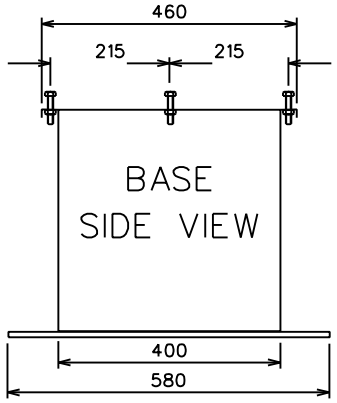
SET	SHEET	REVISION
10	4	13

SIZE GROOTTE A3L





FRONT VIEW



NOTES:
1. THE BASE SHALL BE MANUFACTURED FROM 2mm 3CR12. ALL BOTTOM SIDES SHALL HAVE A 10mm DOWN BEND
2. M10 STAINLESS STEEL BOLTS (30mm), NUTS AND SPRING WASHERS SHALL BE SUPPLIED FOR THE FITMENT OF THE KIOSK ONTO THE BASE.
3. 12 DIAMETER HOLES SHALL BE DRILLED OR PUNCHED IN THE BASE AND THE NUTS SHALL THEN BE WELDED INSIDE THE BASE CENTERED OVER THE HOLES TO ALLOW THE PANEL BOLTS TO BE SCREWED FROM THE OUTSIDE INTO THE NUTS.
4. INSPECTION COVERS SHALL BE INSTALLED ON BOTH THE FRONT AND THE BACK SIDE.
5. M10 STAINLESS STEEL BOLTS (20mm), NUTS AND SPRING WASHERS SHALL BE SUPPLIED FOR THE FITMENT OF THE INSPECTION COVERS ONTO THE BASE.
6. 12 DIAMETER HOLES SHALL BE DRILLED OR PUNCHED IN THE BASE AND THE NUTS SHALL THEN BE WELDED INSIDE THE BASE CENTERED OVER THE HOLES TO ALLOW THE COVER BOLTS TO BE SCREWED FROM THE OUTSIDE INTO THE NUTS.

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
13	REMOVED 100kVA OPTION, SURGE ARRESTOR ON NEUTRAL	P.A.T.				
12	INNER PLATE LAYOUT CHANGED, ADDED LEVER LOCK BOX	P.A.T.	HPD G	HPD G	11/07/2014	
11	CHANGE ABB MCCB TYPE REFERENCES AND VOLTEX MCCB ADDED	P.A.T.	HPD G	HPD G	05/02/2010	
10	DOOR DESIGN CHANGED, MCBs & PHASE FAILURE RELAY BASE WIRING REMOVED	HPD G	HPD G	HPD G	05/02/2010	
9	VARIOUS AMMENDMENTS MADE	HPD G	HPD G	HPD G	14/12/2006	
8	INSULATOR DIMENSIONING SPECIFIED, BUSBARS CHANGED	HPD G	R K	PR G	01/11/2006	
7	TOTAL DESIGN CHANGE	HPD G	G M	PR G	01/08/2005	
6	INNERPLATE MCCB CUT-OUT, BASE, NEUTRAL BAR, WIRING CHANGED	HPD G	G M	PR G	01/06/2003	

Eskom Distribution

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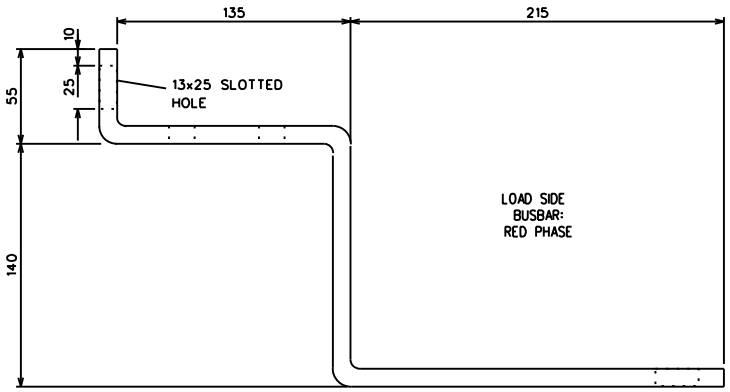
DATE: 01/06/2003
DRAWN: HPD GROENEWALD P VERMAAK
DATE: 12/07/1996

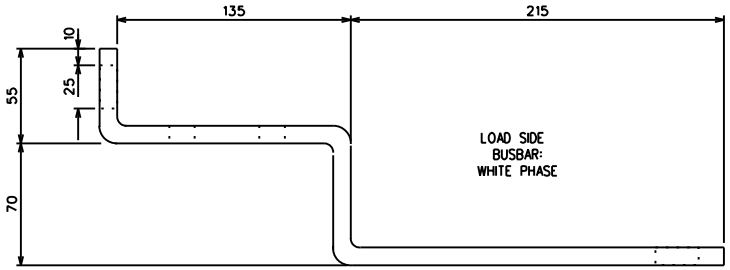
METER KIOSK
200 - 500kVA LPU
MANUFACTURING DETAILS
OPTIONAL BASE

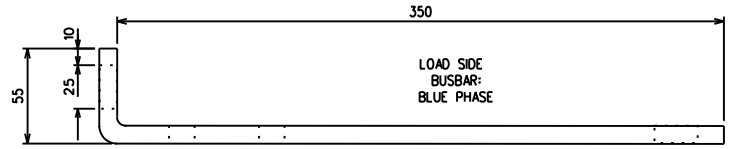
D-DT-1000

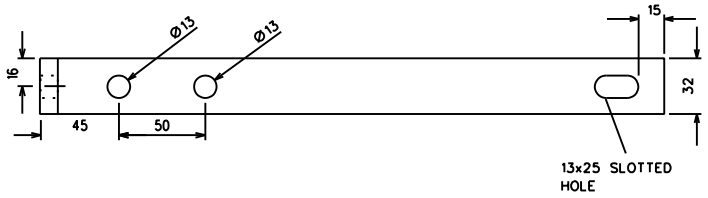
SET	SHEET	REVISION
10	5	13

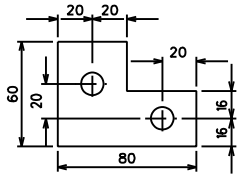
SIZE GROOTTE A3L

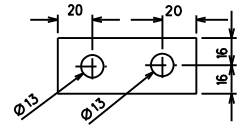


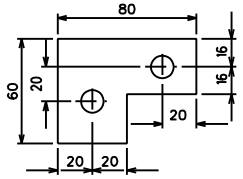




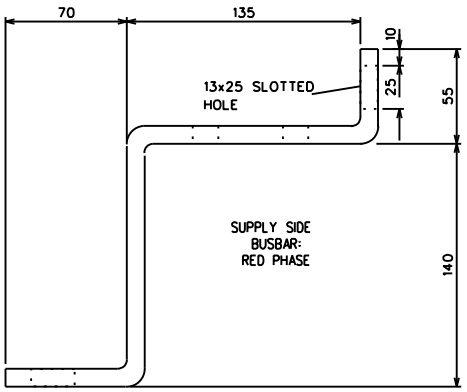


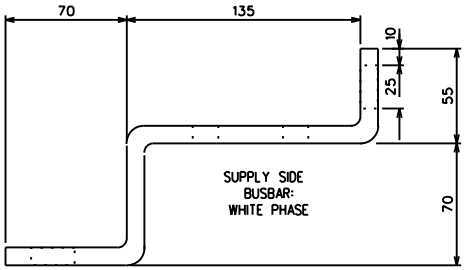


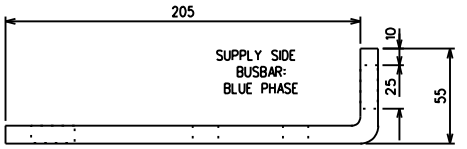


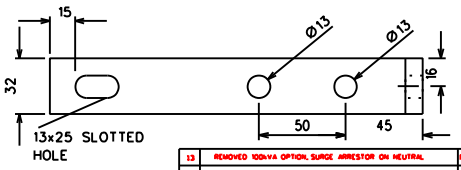


MCCB EXTENDERS









NOTES: (200kVA & 315kVA KIOSKS)

1. THE BUSBARS SHALL BE MANUFACTURED FROM 32 x 10mm TINNED COPPER.
2. THE BUSBARS SHALL BE INSULATED BY COLOR-CODED HEAT RESISTANT SLEEVING INDICATING THE RED, BLUE OR WHITE PHASE. AREAS SURROUNDING THE HOLES IN THE BUSBARS SHALL NOT BE INSULATED.
3. BOTH THE SUPPLY AND LOAD BUSBARS SHALL BE SUPPLIED WITH TWO M12 35mm LONG STAINLESS STEEL BOLTS, NUTS, WASHERS (2 OF) AND SPRING WASHERS (2 OF) FOR THE FITMENT OF CABLES.
4. HOLES AND SLOTTED HOLES SHALL PREFERABLY BE MACHINED AND NOT PUNCHED. WHERE HOLES ARE PUNCHED, THEN THE BUSBARS SHALL BE MACHINED TO HAVE FLAT SURFACES.
5. THE BUSBAR DIMENSIONS ARE FOR CBI HI-MAG LY CIRCUIT BREAKERS.
6. THE DIMENSIONS FOR THE MCCB EXTENDERS WILL VARY ACCORDING TO THE MCCB USED.

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
13	REMOVED 100kVA OPTION, SURGE ARRESTOR ON NEUTRAL	P.A.T.				
12	INNER PLATE LAYOUT CHANGED, ADDED LEVER LOCK BOX	P.A.T.	MPD G	MPD G	11/07/2014	
11	CHANGE ABB MCCB TYPE REFERENCES AND VOLTEX MCCB ADDED	P.A.T.	MPD G	MPD G	01/11/2011	
10	DOOR DESIGN CHANGED, MCBs & 'PHASE FAILURE' BASE WIRING REMOVED	MPD G	MPD G	MPD G	05/02/2010	
9	VARIOUS AMENDMENTS MADE	MPD G	MPD G	MPD G	14/12/2006	
8	INSULATOR DIMENSIONING SPECIFIED, BUSBARS CHANGED	MPD G	R E	PR G	01/11/2006	
7	TOTAL DESIGN CHANGE	MPD G	G M	PR G	01/08/2005	
6	BASEPLATE MCCB CUT-OUT, BASE, NEUTRAL BAR, WIRING CHANGED	MPD G	G M	PR G	01/06/2003	

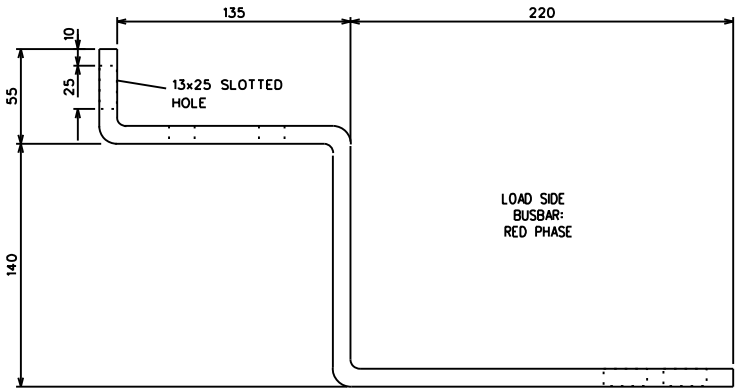
Eskom Distribution

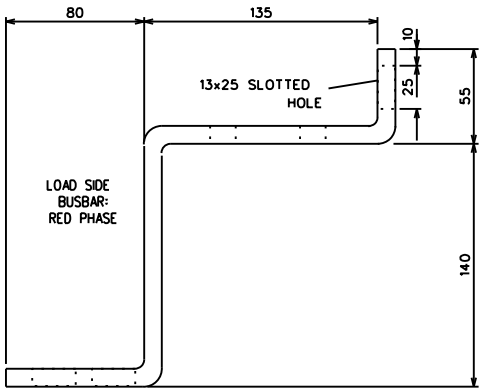
AUTH:	PR GROENEWALD
DATE:	01/06/2003
CHKD:	MPD GROENEWALD
DATE:	01/06/2003
DRAWN:	MPD GROENEWALD P VERMAAK
DATE:	12/07/1996

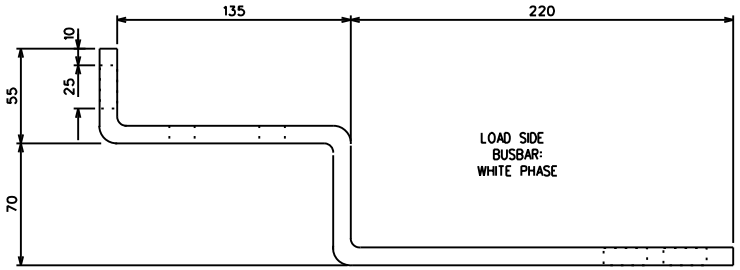
METER KIOSK
200 - 500kVA LPU
MANUFACTURING DETAILS
BUSBARS: 200 & 315kVA KIOSK

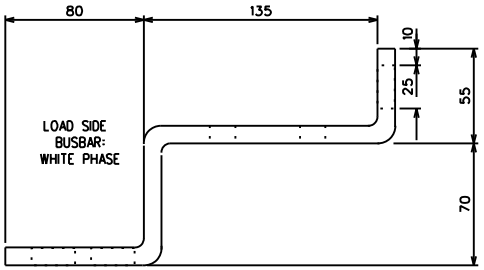
	SET	SHEET	REVISION
D-DT-1000	10	6	13

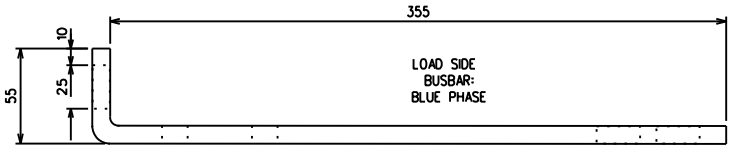
SIZE GROOTTE A3L

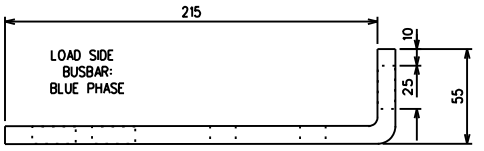


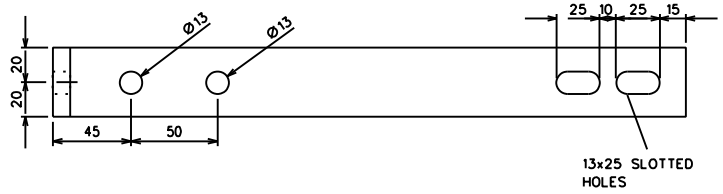


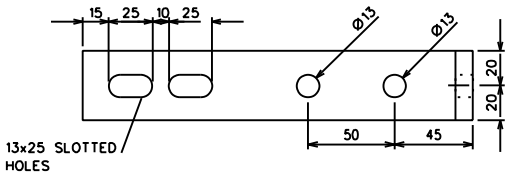












NOTES: (500kVA KIOSKS)

1. THE BUSBARS SHALL BE MANUFACTURED FROM 40 x 10mm TINNED COPPER.
2. THE BUSBARS SHALL BE INSULATED BY COLOR-CODED HEAT RESISTANT SLEEVING INDICATING THE RED, BLUE OR WHITE PHASE. AREAS SURROUNDING THE HOLES IN THE BUSBARS SHALL NOT BE INSULATED.
3. BOTH THE SUPPLY AND LOAD BUSBARS SHALL BE SUPPLIED WITH TWO M12 35mm LONG STAINLESS STEEL BOLTS, NUTS, WASHERS (2 OF) AND SPRING WASHERS (2 OF) FOR THE FITMENT OF CABLES.
4. HOLES AND SLOTTED HOLES SHALL PREFERABLY BE MACHINED AND NOT PUNCHED. WHERE HOLES ARE PUNCHED, THEN THE BUSBARS SHALL BE MACHINED TO HAVE FLAT SURFACES.
5. THE BUSBAR DIMENSIONS ARE FOR MITSUBISHI NF800A CIRCUIT BREAKERS.
6. THE DIMENSIONS OF THE MCCB EXTENDERS WILL VARY ACCORDING TO THE MCCB USED.

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
13	REMOVED 100kVA OPTION, SURGE ARRESTOR ON NEUTRAL	P.A.T.				
12	INNER PLATE LAYOUT CHANGED, ADDED LEVER LOCK BOX	P.A.T.	MPD G	MPD G	11/07/2014	
11	CHANGE, RBS MCCB TYPE, REFERENCES AND VOLTES MCCB ADDED	P.A.T.	MPD G	MPD G	01/11/2011	
10	DOOR DESIGN CHANGED, MCBs & PHASE FAILURE BASE WIRING REMOVED	MPD G	MPD G	MPD G	05/02/2010	
9	VARIOUS AMENDMENTS MADE	MPD G	MPD G	MPD G	14/12/2006	
8	INSULATOR DIMENSIONING SPECIFIED, BUSBARS CHANGED	MPD G	R K	PR G	01/11/2006	
7	TOTAL DESIGN CHANGE	MPD G	G W	PR G	01/08/2005	
6	INSERVITE MCCB CUT-OUT, BASE, NEUTRAL BAR, WIRING CHANGED	MPD G	G W	PR G	01/06/2003	

Eskom Distribution

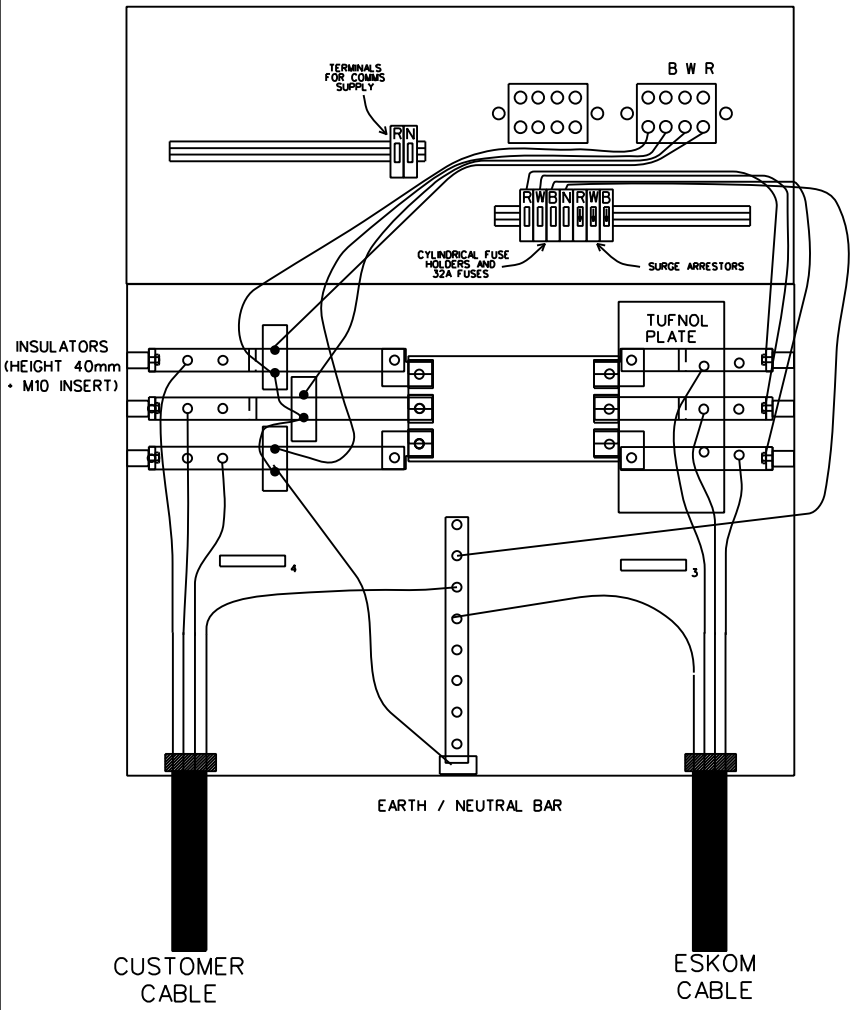
AUTH:	PR GROENEWALD
DATE:	01/06/2003
CHKD:	MPD GROENEWALD
DATE:	01/06/2003
DRAWN:	MPD GROENEWALD P VENKIAH
DATE:	12/07/1996

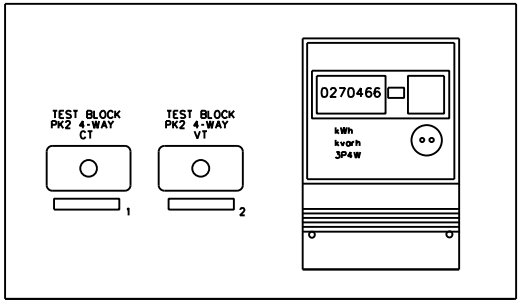
METER KIOSK
200 - 500kVA LPU
MANUFACTURING DETAILS
BUSBARS: 500kVA KIOSK

DRAWING NO.	SET	SHEET	REVISION
D-DT-1000	10	7	13

SIZE GROOTTE A3L

BACK VIEW OF INNER PLATE





FRONT VIEW OF TOP PART OF INNER PLATE

No	LABEL
1	CT TEST BLOCK
2	VT TEST BLOCK
3	ESKOM CABLES
4	CUSTOMER CABLES

NOTES:

1. THE CURRENT TRANSFORMERS SHALL BE RING TYPE ESKOM APPROVED UNITS.
2. THE BUSBARS SHALL BE FASTENED TO THE SIDES OF THE KIOSK USING 40mm HIGH M10 FIBREGLASS INSULATORS (INSERT TYPE - 40mm DIAMETER) WITH STAINLESS STEEL SET SCREWS, NUTS AND SPRING WASHERS.
3. THE MOULDED CASE CIRCUIT BREAKERS SHALL BE ESKOM APPROVED THREE PHASE HYDRAULIC MAGNETIC OR ELECTRONIC UNITS.
4. THE BOLTS FOR THE FITMENT OF THE CABLES SHALL FACE INWARDS.
5. A 150 x 300 TUFNOL PLATE (1mm THICK) SHALL BE FIXED ONTO THE INNER PLATE DIRECTLY NEXT TO THE RIGNT SIDE OF THE MCCB.
   THE TUFNOL SHALL BE FROM A POLYESTER GLASS MAT OR GLASS FABRIC VARIANT.
6. TRANSPARENT PROTECTIVE COVERS SHALL BE INSTALLED OVER THE CT AND VT TEST BLOCK TERMINALS

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
13	REMOVED 100kVA OPTION, SURGE ARRESTOR ON NEUTRAL	P.A.T.				
12	INNER PLATE LAYOUT CHANGED, ADDED LEVER LOCK BOX	P.A.T.	HPD G	HPD G	11/07/2014	
11	CHANGE ABB MCCB TYPE REFERENCES AND VOLTEX MCCB ADDED	P.A.T.	HPD G	HPD G	05/02/2010	
10	DOOR DESIGN CHANGED, MCBs & PHASE FAILURE BASE WIRING REMOVED	HPD G	HPD G	HPD G	05/02/2010	
9	VARIOUS AMMENDMENTS MADE	HPD G	HPD G	HPD G	14/12/2006	
8	INSULATOR DIMENSIONING SPECIFIED, BUSBARS CHANGED	HPD G	R K	PR G	01/11/2006	
7	TOTAL DESIGN CHANGE	HPD G	G W	PR G	01/08/2005	
6	INNERPLATE MCCB CUT-OUT, BASE, NEUTRAL BAR, WIRING CHANGED	HPD G	G W	PR G	01/06/2003	

Eskom Distribution

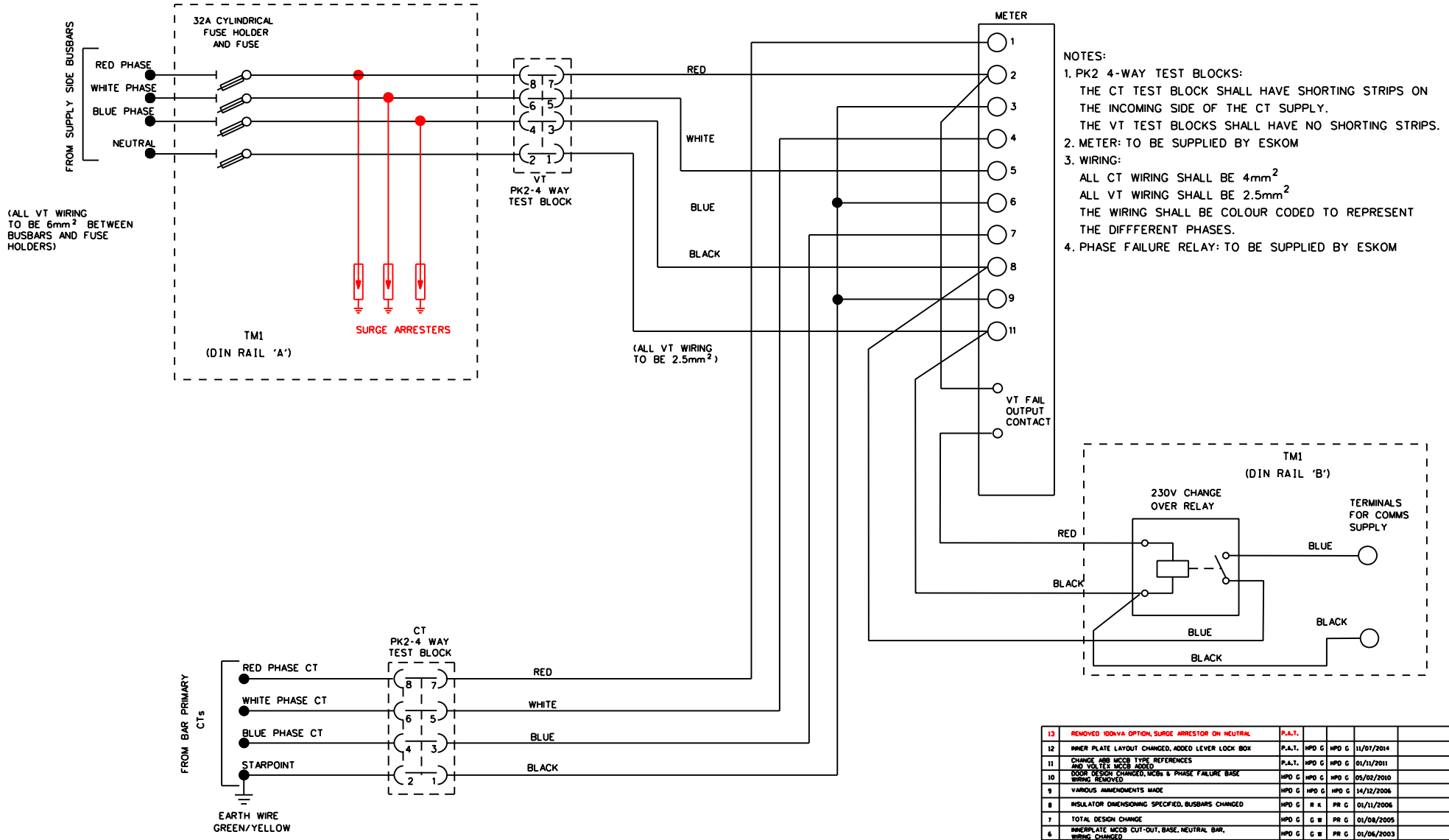
AUTH:	PR GROENEWALD
DATE:	01/06/2003
CHKD:	HPD GROENEWALD
DATE:	01/06/2003
DRAWN:	HPD GROENEWALD P VERMAAK
DATE:	12/07/1996

METER KIOSK
200 - 500kVA LPU
MANUFACTURING DETAILS
GENERAL OUTLAY

D-DT-1000

SET	SHEET	REVISION
10	8	13

SIZE GROOTTE A3L



NOTES:
1. PK2 4-WAY TEST BLOCKS:
   THE CT TEST BLOCK SHALL HAVE SHORTING STRIPS ON THE INCOMING SIDE OF THE CT SUPPLY.
   THE VT TEST BLOCKS SHALL HAVE NO SHORTING STRIPS.
2. METER: TO BE SUPPLIED BY ESKOM
3. WIRING:
   ALL CT WIRING SHALL BE 4mm²
   ALL VT WIRING SHALL BE 2.5mm²
   THE WIRING SHALL BE COLOUR CODED TO REPRESENT THE DIFFFERENT PHASES.
4. PHASE FAILURE RELAY: TO BE SUPPLIED BY ESKOM

NOTE:
1. CT WIRING SHALL BE 4mm².

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
13	REMOVED 100kVA OPTION, SURGE ARRESTOR ON NEUTRAL	P.A.T.				
12	INNER PLATE LAYOUT CHANGED, ADDED LEVER LOCK BOX	P.A.T.	HPD G	HPD G	11/07/2014	
11	CHANGE ABB MCCB TYPE REFERENCES AND VOLTEX MCCB ADDED	P.A.T.	HPD G	HPD G	01/11/2011	
10	DOOR DESIGN CHANGED, MCBs & PHASE FAILURE BASE WIRING REMOVED	HPD G	HPD G	HPD G	05/02/2010	
9	VARIOUS AMMENDMENTS MADE	HPD G	HPD G	HPD G	14/12/2006	
8	INSULATOR DIMENSIONING SPECIFIED, BUSBARS CHANGED	HPD G	R K	PR G	01/11/2006	
7	TOTAL DESIGN CHANGE	HPD G	G W	PR G	01/08/2005	
6	INNERPLATE MCCB CUT-OUT, BASE, NEUTRAL BAR, WIRING CHANGED	HPD G	G W	PR G	01/06/2003	

Eskom Distribution

AUTH: PR GROENEWALD
DATE: 01/06/2003
CHKD: HPD GROENEWALD
DATE: 01/06/2003
DRAWN: HPD GROENEWALD P VERMAAK
DATE: 12/07/1996

METER KIOSK
100 - 500kVA LPU
MANUFACTURING DETAILS
WIRING

D-DT-1000

SET	SHEET	REVISION
10	9	13

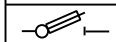
SIZE GROOTTE A3L

STANDARD INSTALLATION DATA:		
SUPPLY SIZE	MCCB SIZE	CT RATIO
100kVA	150A	200/5
200kVA	300A	300/5
315kVA	450A	500/5
500kVA	800A	800/5

CONTROL WIRING SPECIFICATION:		
DESIGNATION	COLOUR	CONDUCTOR SIZE
RED PHASE VOLTAGE (BUSBAR TO FUSE HOLDER)	RED	6mm²
WHITE PHASE VOLTAGE (BUSBAR TO FUSE HOLDER)	WHITE	6mm²
BLUE PHASE VOLTAGE (BUSBAR TO FUSE HOLDER)	BLUE	6mm²
RED PHASE VOLTAGE (ALL OTHER VT WIRING)	RED	2,5mm²
WHITE PHASE VOLTAGE (ALL OTHER VT WIRING)	WHITE	2,5mm²
BLUE PHASE VOLTAGE (ALL OTHER VT WIRING)	BLUE	2,5mm²
RED PHASE CURRENT	RED	4mm²
WHITE PHASE CURRENT	WHITE	4mm²
BLUE PHASE CURRENT	BLUE	4mm²

LUG SPECIFICATION:			
CONNECTED ONTO:	CONDUCTOR SIZE	LUGS	COLOUR
BUSBAR	6mm²	HELLERMANN RING TYPE T3R10 or JST TYPE FV5.5-10	YELLOW
FUSE BASE (TOP)	6mm²	HELLERMANN DISCONNECT MALE TYPE T3DM or JST TYPE FVDDM5.5-250	YELLOW
FUSE BASE (BOTTOM)	2.5mm²	HELLERMANN DISCONNECT MALE TYPE T2DM or JST TYPE FVDDM2-250	BLUE
PK2 VT TEST BLOCK	2,5mm²	HELLERMANN RING TYPE T2R6 or JST TYPE FVWS2-6	BLUE
SURGE ARRESTORS	2,5mm²	HELLERMANN DISCONNECT MALE TYPE T2DM or JST TYPE FVDDM2-250	BLUE
TERMINALS 10mm	2,5mm²	HELLERMANN HOOKED BLADE TYPE T2HB or JST TYPE FVWSAH-2	BLUE
RELAY BASE	2,5mm²	HELLERMANN BLADE TYPE T2FB9 or PIN TYPE 2P8 or JST BLADE TYPE FVWS2-1AF or PIN TYPE FVWSPC-2	BLUE
PK2 CT TEST BLOCK	4mm²	HELLERMANN RING TYPE T3R6 or JST TYPE FV5.5-S6	YELLOW

NOTES:
1. LUGS SHALL BE OF THE DOUBLE CRIMP TYPE.
2. LUGS SHALL EACH BE MARKED WITH TYPE AND MANUFACTURER NAME

EQUIPMENT SPECIFICATION:		
LEGEND	DESCRIPTION	APPROVED EQUIPMENT
	THREE PHASE 230V, 5A, PROGRAMMABLE METER CALLIBRATED, SEALED AND WITH TESTED STICKER	ELSTER A1700 or A1140 5A, CL 0.5 METER or LANDIS & GYR ZMD or ZMG 5A, CL 0.5 METER
	HYDRAULIC MAGNETIC OR ELECTRONIC THREE PHASE BREAKER, >20kA (MCCB) 300A	CBI ELECTRIC: HY-MAG TYPE L20B 300A or CBI ELECTRIC: MITSUBISHI NF400SEW 200-400A or ABB TYPE T4N 320 R320 or SCHNEIDER ELECTRIC: MERLIN GERIN CODE 32693 OR VOLTEX CODE GBN403E & ABS403E
	HYDRAULIC MAGNETIC OR ELECTRONIC THREE PHASE BREAKER, >20kA (MCCB) 450A	CBI ELECTRIC: HY-MAG TYPE L20B 450A or CBI ELECTRIC: MITSUBISHI NF630SEW 300-630A or ABB TYPE T5N 630 R630 252-630A or SCHNEIDER ELECTRIC: MERLIN GERIN CODE 32899 OR VOLTEX CODE GBN403E & ABS403E
	HYDRAULIC MAGNETIC OR ELECTRONIC THREE PHASE BREAKER, >20kA (MCCB) 800A	CBI ELECTRIC: HY-MAG TYPE M25B 830A or CBI ELECTRIC: MITSUBISHI NF800SEW 400-800A or ABB TYPE S6N 800 R8000 or SCHNEIDER ELECTRIC: MERLIN GERIN CODE 33466 OR VOLTEX CODE GBN803E & ABS803E
	CURRENT TRANSFORMERS: RING TYPE CLASS 0.5 5VA	ITT: 200/5A, 300/5A, 500/5A & 800/5A or CURRENT ELECTRIC: 200/5A, 300/5A, 500/5A & 800/5A
	PK2 4-WAY TEST BLOCK	IST PK2 4-WAY TEST BLOCK or ALLBRO PK2 4-WAY TEST BLOCK
	FUSE BASE (SEALABLE) 10x38 FUSE - 32A, 500VAC, CLASS aM	ELECTRO MECHANICA: df TYPE PMF 10x38 or WOHNER TYPE AES 10x38 INDUSTRIAL 1 POLE FUSE HOLDER + 32A CLASS aM CYLINDRICAL FUSE
	SURGE ARRESTOR: Imax (8/20ms) 40kA or 65kA (4/20ms) 275V (SINGLE POLE DIN) SANS IEC 61643-1	CBI: TYPE QKL1-(13)D 275V 20/40kA (CBI BOM CODE QKLD0001) or SIMILAR
	TERMINALS FOR COMMS SUPPLY	WEIDMULLER TYPE WDU 10 SL or ENTRELEC TYPE M 10/10.RS or ALSTOM: ELMEX TYPE KULT1
	MINIATURE RELAY AND DIN BASE 230V 10A 1 CHANGEOVER	FINDER TYPE 40.51 RELAY & TYPE 95.05 BASE or SIMILAR

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
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11	CHANGE ABB MCCB TYPE REFERENCES AND VOLTEX MCCB ADDED	P.A.T.	HPD G	HPD G	01/11/2011	
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8	INSULATOR DIMENSIONING SPECIFIED, BUSBARS CHANGED	HPD G	R K	PR G	01/11/2006	
7	TOTAL DESIGN CHANGE	HPD G	G M	PR G	01/08/2005	
6	INNERPLATE MCCB CUT-OUT, BASE, NEUTRAL BAR, WIRING CHANGED	HPD G	G M	PR G	01/06/2003	

Eskom Distribution

AUTH: PR GROENEWALD
DATE: 01/06/2003
CHKD: HPD GROENEWALD
DATE: 01/06/2003
DRAWN: HPD GROENEWALD P VERMAAK
DATE: 12/07/1996

METER KIOSK
200 - 500kVA LPU
MANUFACTURING DETAILS
APPROVED EQUIPMENT

D-DT-1000

SET	SHEET	REVISION
10	10	13

SIZE GROOTTE A3L