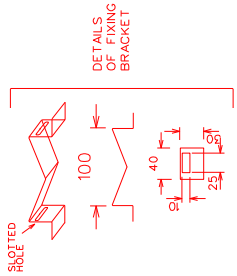
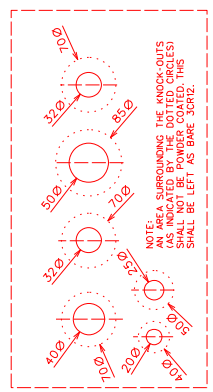


- NOTES:**
1. THE ENTIRE KIOSK (EXCEPT THE GLAND PLATE & BASE) SHALL BE MANUFACTURED FROM 1.5mm 3CR12.
 2. THE DOOR SURROUNDS SHALL INCORPORATE A SPLASH PROOF 10mm LIP AROUND THE ENTIRE PERIMETER.
 3. THE DOORS SHALL BE MOUNTED FLUSH TO THE SPLASH-PROOF LIP.
 4. 22mm DIAMETER HOLES SHALL BE PROVIDED WITH A RUBBER / PLASTIC COVER ON BOTH SIDES OF THE KIOSK
 5. THE HINGES OF THE DOOR (STUD AND BOLT) 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 M8 BOLT CAN BE SCREWED INTO THE HINGE HOLE IN THE DOOR.
 6. THE EARTH STUD SHALL BE A M10 35mm STAINLESS STEEL SET SCREW, NUT AND SPRING WASHER. THE SET SCREW SHALL BE WELDED ONTO THE BOTTOM OF THE KIOSK.
 7. VENTILATING LOUVRES SHALL BE INSTALLED ON BOTH SIDES OF THE KIOSK. THE EFFECTIVE WIDTH SHALL BE 150mm AND INCORPORATE AT LEAST FIVE LOUVRES.
 8. THE GAPS IN THE LOUVRES SHALL BE BETWEEN 2 AND 5mm. A UV STABILISED PLASTIC MESH WITH OPENINGS SMALLER THAN 2mm SHALL BE FITTED ONTO THE BACK OF THE LOUVRES.
 9. THE INNER PLATE SHALL BE BOLTED ONTO THE BACK 10mm AWAY FROM THE BACK OF THE KIOSK AND 50mm FROM THE TOP OF THE KIOSK
 10. ALL THE HOLES ON THE BOTTOM OF THE KIOSK (CABLE ENTRIES & BASE HOLES) SHALL BE FITTED WITH SQUARE KNOCK-OUTS WELDED ONLY AT ONE CORNER TO THE INSIDE BOTTOM
 11. FOUR M10 30mm STAINLESS STEEL SET SCREWS, NUTS AND SPRING WASHERS SHALL BE PROVIDED TO FIT THE KIOSK ON A F-BRACKET BETWEEN STRUCTURES. NUT WELDED ON THE INSIDE OF THE KIOSK WITH SET SCREW FITTED FROM THE OUTSIDE.
 12. A 180MM WIDE DIN-RAIL SHALL BE FITTED ON THE RIGHT INNER SIDE OF THE KIOSK.
 13. THE KIOSK SHALL BE POWDER COATED WITH LIGHT NAVY GREY POLYESTER POWDER (SANS COLOUR CODE 635).

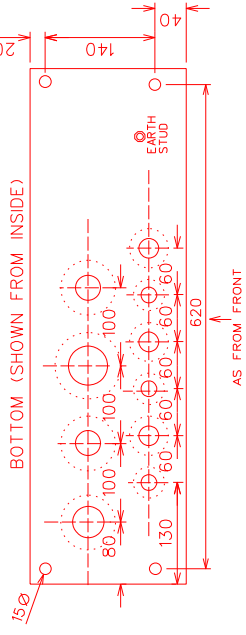


HINGE: 20mm LONG x 8mm DIAMETER STUD & WASHER WELDED ONTO FRAME FOR THE FITMENT OF THE DOOR

LEFT SIDE VIEW



FRONT VIEW



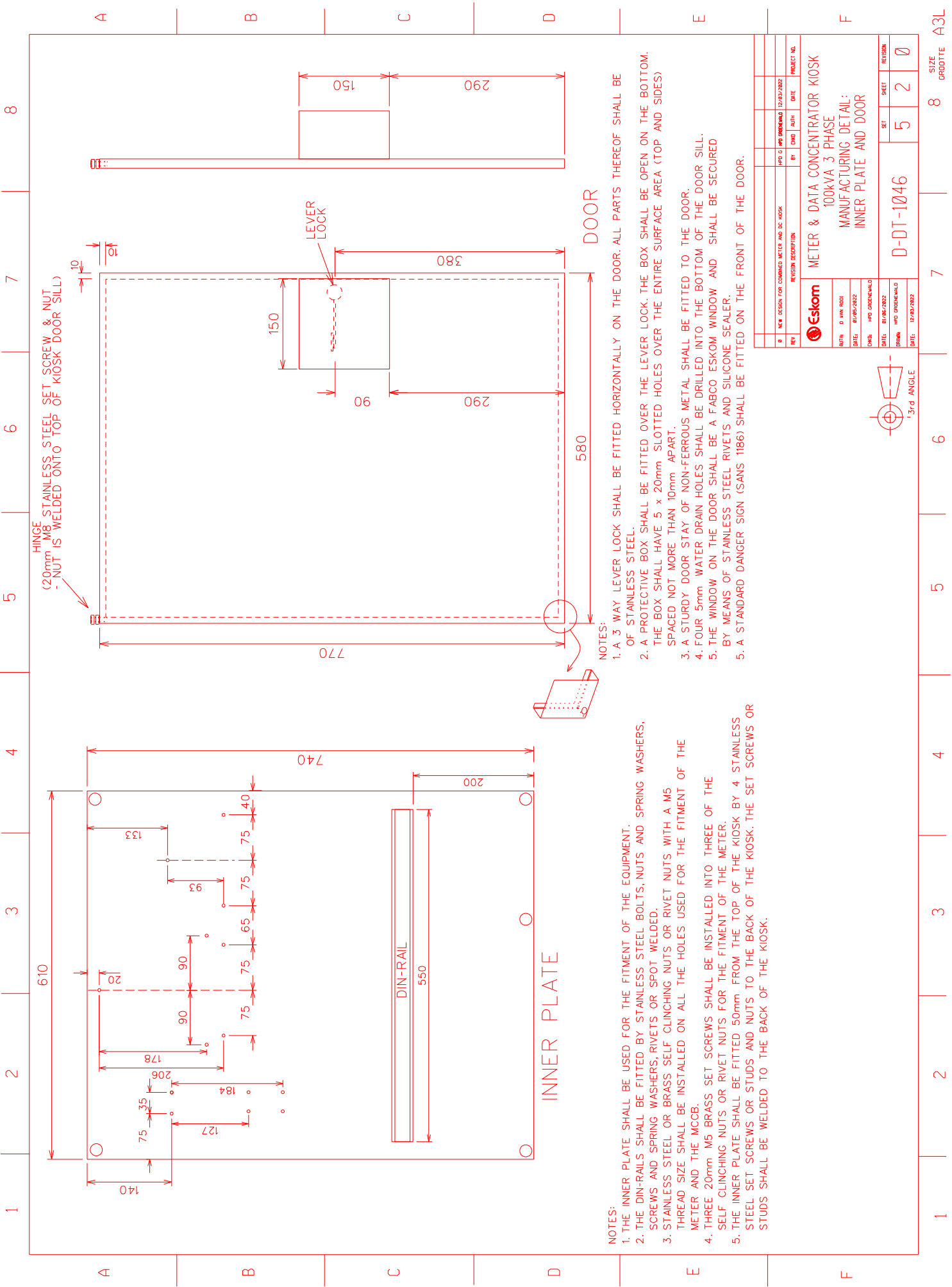
METER KIOSK
SPU & LPU 100KVA 3 PHASE
MANUFACTURING DETAIL:
METER KIOSK

REV	DESCRIPTION	BY	CHKD	DATE	PRODUCT NO.
1	NEW DESIGN FOR COMBINED METER AND DC KIOSK	HPD	HPD	12/07/2022	

Eskom	D W/N 1001	DATE: 01/06/2022	DATE: 01/06/2022	SET	SHEET	REVISION
HPD	HPD	HPD	HPD	5	1	0

0-DT-1046	DATE: 12/07/2022	DATE: 12/07/2022
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HINGE (20mm M8 STAINLESS STEEL SET SCREW & NUT - NUT IS WELDED ONTO TOP OF KIOSK DOOR SILL)

LEVER LOCK

DOOR

INNER PLATE

DIN-RAIL

NOTES:

1. THE INNER PLATE SHALL BE USED FOR THE FITMENT OF THE EQUIPMENT.
2. THE DIN-RAILS SHALL BE FITTED BY STAINLESS STEEL BOLTS, NUTS AND SPRING WASHERS, SCREWS AND SPRING WASHERS, RIVETS OR SPOT WELDED.
3. STAINLESS STEEL OR BRASS SELF CLINCHING NUTS OR RIVET NUTS WITH A M5 THREAD SIZE SHALL BE INSTALLED ON ALL THE HOLES USED FOR THE FITMENT OF THE METER AND THE MCCB.
4. THREE 20mm M5 BRASS SET SCREWS SHALL BE INSTALLED INTO THREE OF THE SELF CLINCHING NUTS OR RIVET NUTS FOR THE FITMENT OF THE METER.
5. THE INNER PLATE SHALL BE FITTED 50mm FROM THE TOP OF THE KIOSK BY 4 STAINLESS STEEL SET SCREWS OR STUDS AND NUTS TO THE BACK OF THE KIOSK. THE SET SCREWS OR STUDS SHALL BE WELDED TO THE BACK OF THE KIOSK.

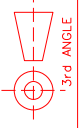
NOTES:

1. A 3 WAY LEVER LOCK SHALL BE FITTED HORIZONTALLY ON THE DOOR. ALL PARTS THEREOF SHALL BE OF STAINLESS STEEL.
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. A STURDY DOOR STAY OF NON-FERROUS METAL SHALL BE FITTED TO THE DOOR.
4. FOUR 5mm WATER DRAIN HOLES SHALL BE DRILLED INTO THE BOTTOM OF THE DOOR SILL.
5. THE WINDOW ON THE DOOR SHALL BE A FABCO ESKOM WINDOW AND SHALL BE SECURED BY MEANS OF STAINLESS STEEL RIVETS AND SILICONE SEALER.
5. A STANDARD DANGER SIGN (SANS 1186) SHALL BE FITTED ON THE FRONT OF THE DOOR.

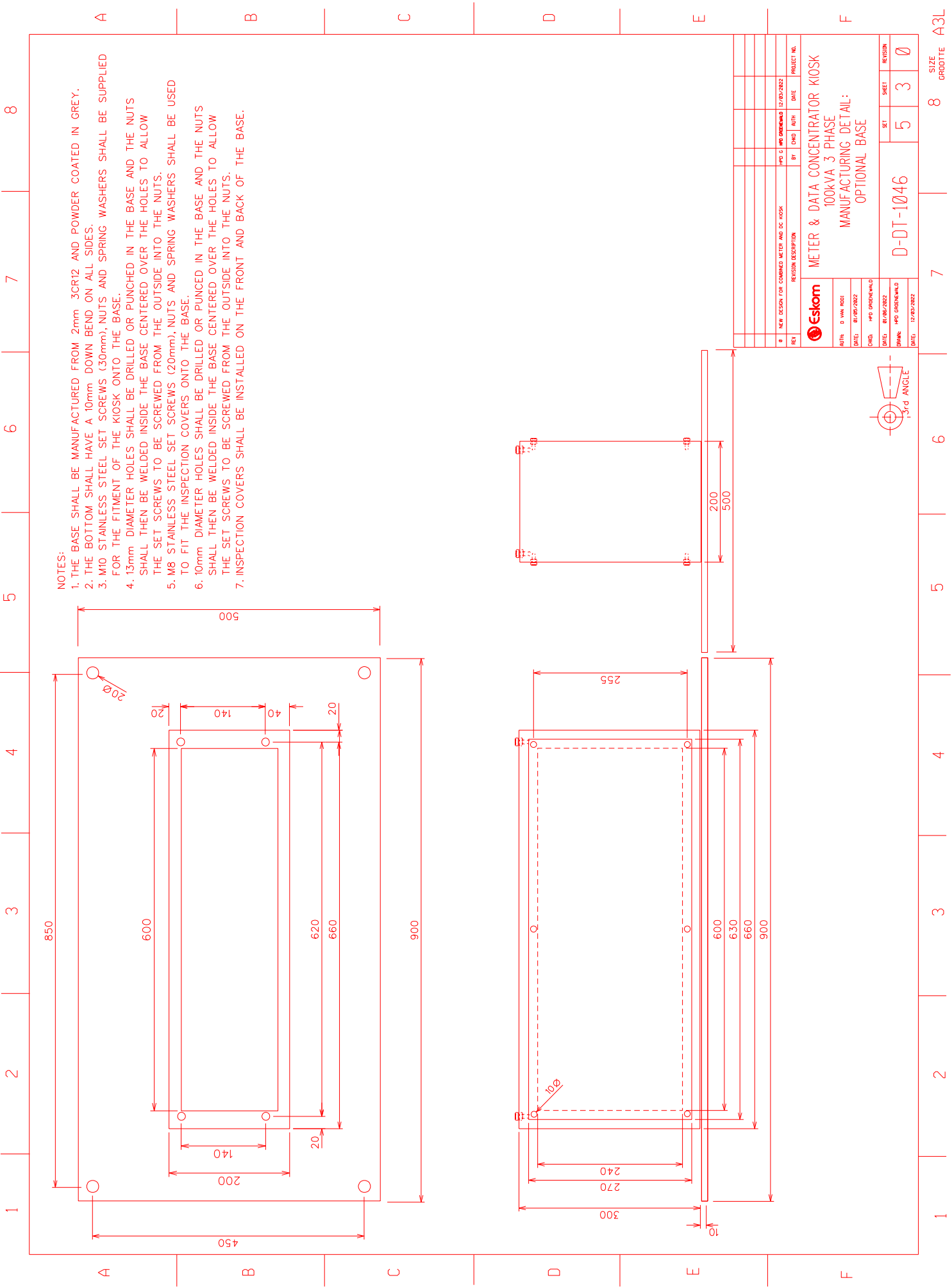
REV	BY	CHKD	AUTH	DATE	PROJECT NO.
0	NEW DESIGN FOR COMBINO METER AND DC KIOSK			12/03/2022	

DATE	BY	CHKD	AUTH	DATE	PROJECT NO.
01/06/2022	HPD DRENEWALD				
01/06/2022	HPD DRENEWALD				

		METER & DATA CONCENTRATOR KIOSK 100kVA 3 PHASE MANUFACTURING DETAIL: INNER PLATE AND DOOR	
DATE:	12/03/2022	SET	SHEET
DATE:	12/03/2022	5	2
DATE:	12/03/2022	REVISION	
DATE:	12/03/2022	0	



D-DT-1046



NOTES:

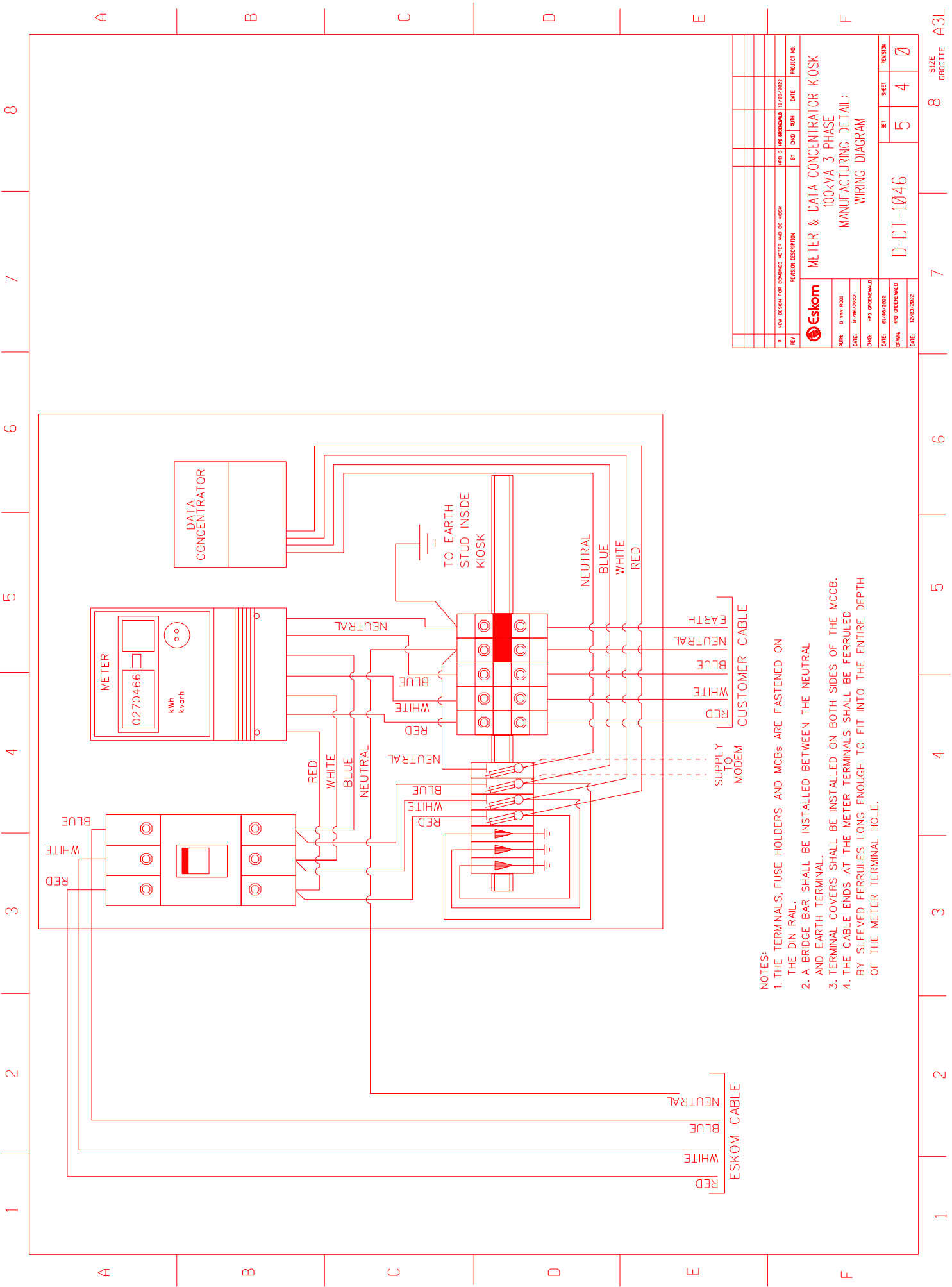
1. THE BASE SHALL BE MANUFACTURED FROM 2mm 3CR12 AND POWDER COATED IN GREY.
2. THE BOTTOM SHALL HAVE A 10mm DOWN BEND ON ALL SIDES.
3. M10 STAINLESS STEEL SET SCREWS (30mm), NUTS AND SPRING WASHERS SHALL BE SUPPLIED FOR THE FITMENT OF THE KIOSK ONTO THE BASE.
4. 13mm DIAMETER HOLES SHALL BE DRILLED OR PUNCHED IN THE BASE AND THE NUTS SHALL THEN BE WELDED INSIDE THE BASE CENTERED OVER THE HOLES TO ALLOW THE SET SCREWS TO BE SCREWED FROM THE OUTSIDE INTO THE NUTS.
5. M8 STAINLESS STEEL SET SCREWS (20mm), NUTS AND SPRING WASHERS SHALL BE USED TO FIT THE INSPECTION COVERS ONTO THE BASE.
6. 10mm 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 SET SCREWS TO BE SCREWED FROM THE OUTSIDE INTO THE NUTS.
7. INSPECTION COVERS SHALL BE INSTALLED ON THE FRONT AND BACK OF THE BASE.

REV	NEW DESIGN FOR COMBINED METER AND DC KIOSK	BY	CHKD	DATE	PROJECT NO.
1				12/03/2022	

		METER & DATA CONCENTRATOR KIOSK 100kVA 3 PHASE MANUFACTURING DETAIL: OPTIONAL BASE	
AUTH: D VAN NODI DATE: 01/05/2022	DWG: HPO DRENKHOED DATE: 01/05/2022	DIMS: HPO DRENKHOED DATE: 12/03/2022	SET: 5 SHEET: 3 REVISION: 0

REVISION DESCRIPTION	





NOTES:

1. THE TERMINALS, FUSE HOLDERS AND MCBs ARE FASTENED ON THE DIN RAIL.
2. A BRIDGE BAR SHALL BE INSTALLED BETWEEN THE NEUTRAL AND EARTH TERMINAL.
3. TERMINAL COVERS SHALL BE INSTALLED ON BOTH SIDES OF THE MCCB.
4. THE CABLE ENDS AT THE METER TERMINALS SHALL BE FERRULED BY SLEEVED FERRULES LONG ENOUGH TO FIT INTO THE ENTIRE DEPTH OF THE METER TERMINAL HOLE.

REV	DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
0	NEW DESIGN FOR COMBINO METER AND DC KIOSK	HPD	HPD	HPD	12/03/2022	
METER & DATA CONCENTRATOR KIOSK 100kVA 3 PHASE MANUFACTURING DETAIL: WIRING DIAGRAM						
DATE:	HPD DRAFTER:	DATE:	HPD DRAFTER:	DATE:	HPD DRAFTER:	DATE:
08/09/2022	HPD	08/09/2022	HPD	08/09/2022	HPD	08/09/2022
D-DT-1046				SET	SHEET	REVISION
				5	4	0

1	2	3	4	5	6	7	8
A							
B							
C							
D							
E							
F							

LEGEND	DESCRIPTION	100kVA SPU & LPU KIOSK
	THREE PHASE 160A WHOLE CURRENT METER, CALIBRATED, SEALED AND WITH TESTED STICKER	ESKOM APPROVED 160A METER
	THREE PHASE DATA CONCENTRATOR	ESKOM APPROVED DATA CONCENTRATOR
	MOULDED CASE CIRCUIT BREAKER WITH TERMINAL COVERS: HYDRAULIC MAGNETIC or ELECTRONIC THREE PHASE, >20kA, 150A	CBIELECTRIC: HY-MAG TYPE J25S 150A CBIELECTRIC: MITSUBISHI TYPE NF250SEV 80-160A ABB: XT12H 160 EKIP DIP LIG In-160A SCHNEIDER ELECTRIC: NSX160B MICROLOGIC 160A
	MAIN POWER CIRCUIT WIRING	50mm SQUARE FLEXIBLE COLOUR CODED PVC INSULATED CABLE, RATED VOLTAGE 600/1000V, SANS 1574
	WIRING: EARTH STUD TO TERMINALS	16mm SQUARE GREEN & YELLOW PVC INSULATED CABLE, RATED VOLTAGE 600/1000V, SANS 1507
	WIRING: MCB TO FUSES	6mm SQUARE PVC COLOUR CODED PVC INSULATED CABLE, RATED VOLTAGE 600/1000V, SANS 1507
	WIRING: FUSES TO SURGE ARRESTORS (S/A WIRING)	2.5mm SQUARE PVC COLOUR CODED PVC INSULATED CABLE, RATED VOLTAGE 600/1000V, SANS 1507
	WIRING: FUSES TO DATA CONCENTRATOR (DC WIRING)	2.5mm SQUARE PVC COLOUR CODED PVC INSULATED CABLE, RATED VOLTAGE 600/1000V, SANS 1507
	TERMINAL	WEIDMULLER: TYPE WFF70 WITH WAH70 TERMINAL COVERS or ENTRELEC: TYPE D70/32.FF WITH CPUF70 COVERS or KLEMSAN AVK95B WITH KKB95 COVERS or PHOENIX CONTACT: TYPE RBO 8 WITH HC-RBO 8 TERMINAL COVERS
	BRIDGE BAR	WEIDMULLER WOL2/70 or ENTRELEC BJS32 or KLEPSAN UKB 95/2 or PHOENIX CONTACT RBO 8-VS 2
	END STOP	WEIDMULLER EW35 or LEGRAND VIKING 3 39403 or ENTRELEC BAM or KLEMSAN KD3 or PHOENIX CONTACT: E/UK or CLIPFIX 35
	FUSE BASE (SEALABLE) 10x38 FUSE - 32A, 500VAC, CLASS 0M	ELECTRO MECHANICA: df TYPE PMF 10x38 or WOHNER TYPE AES 10x38 INDUSTRIAL 1 POLE FUSE HOLDER • 32A CLASS 0M CYLINDRICAL FUSE
	SURGE ARRESTOR: I _{max} (8/20ms) 40kA or 65kA (4/20ms) 275V (SINGLE POLE DIN) SANS IEC 61643-1	CB1: TYPE QKL1-(13)D 275V 20/40kA (CBI BOM CODE QKLD0001) or SIMILAR

CONTROL WIRING LUG SPECIFICATION:		
CONNECTED ONTO:	CONDUCTOR SIZE	LUGS
TERMINAL	6mm ²	HELLERMANN RING TYPE T3R10 or JST TYPE FV5.5-10
FUSE BASE (TOP)	6mm ²	HELLERMANN DISCONNECT MALE TYPE T3DM or JST TYPE FVDDM5.5-250
FUSE BASE (BOTTOM)	2.5mm ²	HELLERMANN DISCONNECT MALE TYPE T2DM or JST TYPE FVDDM2-250
SURGE ARRESTORS	2.5mm ²	HELLERMANN DISCONNECT MALE TYPE T2DM or JST TYPE FVDDM2-250

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

		METER & DATA CONCENTRATOR KIOSK 100kVA 3 PHASE MANUFACTURING DETAIL: EQUIPMENT SPECIFICATION	
REV	DESCRIPTION	BY	DATE
0	NEW DESIGN FOR COMBINED METER AND DC KIOSK	HPD DRENEWALD	12/03/2022
SET		5	5
SHEET		5	5
REVISION			