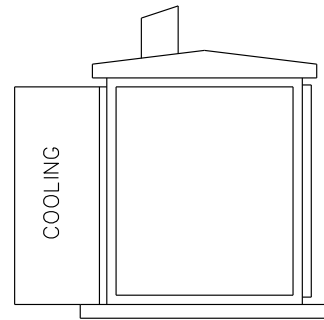
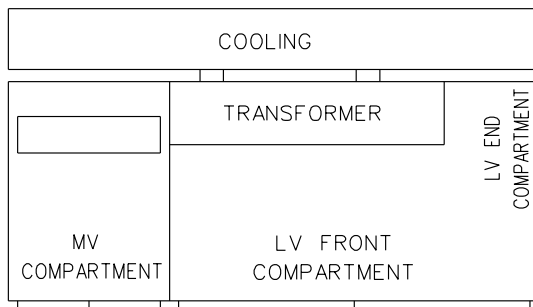



FRONT VIEW



END VIEW



PLAN VIEW WITH ROOF REMOVED

ITEM		:-		MINI SUB,22kV TYPE B				
MATERIAL SPECIFICATION		:-						
CORROSION SPECIFICATION		:-		240-75655504				
STANDARD SPECIFICATION		:-		SANS 1029				
ESKOM SPECIFICATION		:-		240-56062752				
TEST & CERTIFICATION REQUIREMENTS :-								
INSPECTION		Yes	No	ESKOM RELEASE NOTE		Yes	No	
IDENTIFICATION:- INDELIBLE MANUFACTURES TRADEMARK & PART No. ON ALL ITEMS								
13	SAP'S 0650057 TO 0650059 ADDED			P.A.T.	Q. KHUMALO	B.OLIVIER	09.10.2018	
12	0592760 AND 0592761 ADDED			P.A.T.	Q. KHUMALO	J. PAULSE	19.12.2014	
11	M/SUB 500kVA 22kV/420V CB INLDH/RSK ADDED			P.A.T.	B.MWAREHWA	R.KELLY	10.06.2011	
REV	REVISION DESCRIPTION			BY	CHKD	AUTH	DATE	
AUTH:		P. CROWDY	DATE:	05.02.1998	 Eskom		SAP No:	
CHKD:		D. PILLAY	DATE:	05.02.1998				
DRAWN:		P.A. VERMAAK	DATE:	13.11.1997				
					D-DT-8051		SET	SHEET
							6	1
								13


SPEC SHEET

SAP MATERIAL No.:	0170762										
SHORT DESCRIPTION:	M/SUB 315kVA 22kV/420V B FH INLD D8051										
TECH. DESCRIPTION: MINI SUBSTATION * RATED : 315kVA * NOMINAL VOLTAGE : 22kV/420V * TAP SWITCH : $\pm 5\%$ * TYPE B * LV PANEL SUITABLE FOR FITTING OF VERTICAL FUSE HOLDERS (SEE D-DT-3409) * SPECIFICATION: D-DT-3409; INLAND APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *											
SAP MATERIAL No.:	0170861										
SHORT DESCRIPTION:	M/SUB 315kVA 22kV/420V B FH CSTL D8051										
TECH. DESCRIPTION: MINI SUBSTATION * RATED : 315kVA * NOMINAL VOLTAGE : 22kV/420V * TAP SWITCH : $\pm 5\%$ * TYPE B * LV PANEL SUITABLE FOR FITTING OF VERTICAL FUSE HOLDERS (SEE D-DT-3409) * SPECIFICATION: D-DT-3409; COASTAL APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *											
SAP MATERIAL No.:	0170763										
SHORT DESCRIPTION:	M/SUB 500kVA 22kV/420V B FH INLD D8051										
TECH. DESCRIPTION: MINI SUBSTATION * RATED : 500kVA * NOMINAL VOLTAGE : 22kV/420V * TAP SWITCH : $\pm 5\%$ * TYPE B * LV PANEL SUITABLE FOR FITTING OF VERTICAL FUSE HOLDERS (SEE D-DT-3409) * SPECIFICATION: D-DT-3409; INLAND APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *											
SAP MATERIAL No.:	0170862										
SHORT DESCRIPTION:	M/SUB 500kVA 22kV/420V B FH CSTL D8051										
TECH. DESCRIPTION: MINI SUBSTATION * RATED : 500kVA * NOMINAL VOLTAGE : 22kV/420V * TAP SWITCH : $\pm 5\%$ * TYPE B * LV PANEL SUITABLE FOR FITTING OF VERTICAL FUSE HOLDERS (SEE D-DT-3409) * SPECIFICATION: D-DT-3409; COASTAL APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *											
REV	13	SAP'S 0650057 TO 0650059 ADDED			P.A.T.	Q. KHUMALO	B.OLIVIER	09.10.2018			
12	0592760 AND 0592761 ADDED			P.A.T.	Q. KHUMALO	J. PAULSE	19.12.2014				
11	M/SUB 500kVA 22kV/420V CB INLDH/RSK ADDED			P.A.T.	B.MWAREHWA	R.KELLY	10.06.2011				
REV	REVISION DESCRIPTION			BY	CHKD	AUTH	DATE	REF. DRAWINGS			
AUTH:	P. CROWDY		DATE:	05.02.1998		 D-DT-8051		SAP No:			
CHKD:	D. PILLAY		DATE:	05.02.1998				0170762		0170763	
DRAWN:	P.A. VERMAAK		DATE:	13.11.1997				0170861		0170862	
								SET		SHEET	
								REV			
								6			
								2			
								13			

SPEC SHEET

SAP MATERIAL No.:	0592761								
SHORT DESCRIPTION:	SWITCHGEAR:MS H/R 22KV 500KVA B FH CSTL								
TECH. DESCRIPTION:									
SWITCHGEAR: TYPE: MS H/R 22KV 500KVA B FH CSTL; POTENTIAL: 22KV/420V; INTERRUPTING CAPACITY: 20 KA; SANS 780; SWITCHING METHOD: CIRCUIT BREAKER (PRIMARY); SPECIFICATION: D-DT-3409; TAP SWITCH: $\pm 5\%$; FITTED WITH TRANSFORMER AND RMU (RING MAIN UNIT); MINISUB (MS); HIGH RISK (HR); TYPE B (B); FUSEHOLDER (FH); 22KV/420V; FOR COASTAL APPLICATION (CSTL); FOR COASTAL APPLICATION (CSTL); ESKOM DRAWING No. D-DT-8051 *									
SAP MATERIAL No.:	0182412								
SHORT DESCRIPTION:	M/SUB 1000kVA 22kv/420V B FH INLD D8051								
TECH. DESCRIPTION:									
MINI SUBSTATION * RATED : 1000kVA * NOMINAL VOLTAGE : 22kv/420V * TAP SWITCH : $\pm 5\%$ * TYPE B * LV COMPARTMENT CONSISTS OF : ESKOM PANEL, METERING AND CONTROL PANEL AND CUSTOMER PANEL SUITABLE FOR FITTING OF VERTICAL FUSE HOLDERS (SEE D-DT-3409) * SPECIFICATION: D-DT-3409; INLAND APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *									
SAP MATERIAL No.:	0170764								
SHORT DESCRIPTION:	M/SUB 1000kVA 22kv/420V B FH CSTL D8051								
TECH. DESCRIPTION:									
MINI SUBSTATION * RATED : 1000kVA * NOMINAL VOLTAGE : 22kv/420V * TAP SWITCH : $\pm 5\%$ * TYPE B * LV COMPARTMENT CONSISTS OF : ESKOM PANEL, METERING AND CONTROL PANEL AND CUSTOMER PANEL SUITABLE FOR FITTING OF VERTICAL FUSE HOLDERS (SEE D-DT-3409) * SPECIFICATION: D-DT-3409; COASTAL APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *									
13	SAP'S 0650057 TO 0650059 ADDED			P.A.T.	Q. KHUMALO	B.OLIVIE R	09.10.2018		
12	0592760 AND 0592761 ADDED			P.A.T.	Q. KHUMALO	J. PAULSE	19.12.2014		
11	M/SUB 500kVA 22kv/420V CB INLDH/RSK ADDED			P.A.T.	B.MWAREHWA	R.KELLY	10.06.2011		
REV	REVISION DESCRIPTION			BY	CHKD	AUTH	DATE	REF. DRAWINGS	
AUTH:	P. CROWDY	DATE:	05.02.1998	 D-DT-8051		SAP No:			
CHKD:	D. PILLAY	DATE:	05.02.1998			0592761		0170764	
DRAWN:	P.A. VERMAAK	DATE:	13.11.1997			SET	SHEET	REV	
						6	3	13	

SPEC SHEET

SAP MATERIAL No.:		0182413							
SHORT DESCRIPTION:		M/SUB 315kVA 22kV/420V B CB INLD D8051							
TECH. DESCRIPTION:									
MINI SUBSTATION * RATED : 315kVA * NOMINAL VOLTAGE : 22kV/420V * TAP SWITCH : ± 5% * TYPE B * LV PANEL SUITABLE FOR FITTING OF LARGE FRAME MCCB'S (SEE D-DT-3034) * SPECIFICATION: D-DT-3034; INLAND APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *									
SAP MATERIAL No.:		0182414							
SHORT DESCRIPTION:		M/SUB 315kVA 22kV/420V B CB CSTL D8051							
TECH. DESCRIPTION:									
MINI SUBSTATION * RATED : 315kVA * NOMINAL VOLTAGE : 22kV/420V * TAP SWITCH : ± 5% * TYPE B * LV PANEL SUITABLE FOR FITTING OF LARGE FRAME MCCB'S (SEE D-DT-3034) * SPECIFICATION: D-DT-3034; COASTAL APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *									
SAP MATERIAL No.:		0182415							
SHORT DESCRIPTION:		M/SUB 500kVA 22kV/420V B CB INLD D8051							
TECH. DESCRIPTION:									
MINI SUBSTATION * RATED : 500kVA * NOMINAL VOLTAGE : 22kV/420V * TAP SWITCH : ± 5% * TYPE B * LV PANEL SUITABLE FOR FITTING OF LARGE FRAME MCCB'S (SEE D-DT-3034) * SPECIFICATION: D-DT-3034; INLAND APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *									
SAP MATERIAL No.:		0256342							
SHORT DESCRIPTION:		M/SUB 500kVA 22kV/420V CB INLDH/RSKD8051							
TECH. DESCRIPTION:									
HIGH RISK MINI SUBSTATION * RATED : 500kVA * NOMINAL VOLTAGE : 22kV/420V * TAP SWITCH : ± 5% * TYPE B * LV PANEL SUITABLE FOR FITTING OF LARGE FRAME MCCB'S (SEE D-DT-3034) * SPECIFICATION: D-DT-3034; INLAND APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *									
				Q. KHUMALO	B.OLIVIE R	09.10.20 18			
13	SAP'S 0650057 TO 0650059 ADDED			P.A.T.					
12	0592760 AND 0592761 ADDED			P.A.T.	Q. KHUMALO	J. PAULSE	19.12.20 14		
11	M/SUB 500kVA 22kV/420V CB INLDH/RSK ADDED			P.A.T.	B.MWAREHWA	R.KELLY	10.06.2011		
REV	REVISION DESCRIPTION			BY	CHKD	AUTH	DATE		
AUTH:	P. CROWDY	DATE:	05.02.1998	SCALE NTS	 D-DT-8051		SAP No:		
CHKD:	D. PILLAY	DATE:	05.02.1998	CAD REF:			0182413		
				SERIES 8000			0182414		
				FILE No:			0256342		
DRAWN:	P.A. VERMAAK	DATE:	13.11.1997	8050			SET	SHEET	REV
							6	4	13

Unique Identifier:240-48887441

Revision 1

SPEC SHEET										
SAP MATERIAL No.:			0182416							
SHORT DESCRIPTION:			M/SUB 500kVA 22kV/420V B CB CSTL D8051							
TECH. DESCRIPTION: MINI SUBSTATION * RATED : 500kVA * NOMINAL VOLTAGE : 22kV/420V * TAP SWITCH : ± 5% * TYPE B * LV PANEL SUITABLE FOR FITTING OF LARGE FRAME MCCB'S (SEE D-DT-3034) * SPECIFICATION: D-DT-3034; COASTAL APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *										
SAP MATERIAL No.:			0182417							
SHORT DESCRIPTION:			M/SUB 1000kVA 22kV/420V B CB INLD D8051							
TECH. DESCRIPTION: MINI SUBSTATION * RATED : 1000kVA * NOMINAL VOLTAGE : 22kV/420V * TAP SWITCH : ± 5% * TYPE B * LV COMPARTMENT CONSISTS OF : ESKOM PANEL, METERING AND CONTROL PANEL AND CUSTOMER PANEL SUITABLE FOR FITTING OF LARGE FRAME MCCB'S (SEE D-DT-3034) * SPECIFICATION: D-DT-3034; INLAND APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT8051 *										
SAP MATERIAL No.:			0592760							
SHORT DESCRIPTION:			SWITCHGEAR:MS H/R 22KV 500KVA B CB CSTL							
TECH. DESCRIPTION: SWITCHGEAR: TYPE: MS H/R 22KV 500KVA B CB CSTL; POTENTIAL: 22KV/420V; INTERRUPTING CAPACITY: 20 KA; SANS 780; SWITCHING METHOD: CIRCUIT BREAKER (PRIMARY); SPECIFICATION: D-DT-3034; TAP SWITCH: ± 5%; FITTED WITH TRANSFORMER AND RMU (RING MAIN UNIT); MINISUB (MS); HIGH RISK (HR); TYPE B (B); CIRCUIT BREAKER (CB); 22KV/420V; FOR COASTAL APPLICATION (CSTL); ESKOM DRAWING No. D-DT8051 *										
SAP MATERIAL No.:			0182418							
SHORT DESCRIPTION:			M/SUB 1000kVA 22kV/420V B CB CSTL D8051							
TECH. DESCRIPTION: MINI SUBSTATION * RATED : 1000kVA * NOMINAL VOLTAGE : 22kV/420V * TAP SWITCH : ± 5% * TYPE B * LV COMPARTMENT CONSISTS OF : ESKOM PANEL, METERING AND CONTROL PANEL AND CUSTOMER PANEL SUITABLE FOR FITTING OF LARGE FRAME MCCB'S (SEE D-DT-3034) * SPECIFICATION: D-DT-3034; COASTAL APPLICATION * FITTED WITH TRANSFORMER AND RMU * ESKOM DRAWING No. D-DT-8051 *										
13	SAP'S 0650057 TO 0650059 ADDED			P.A.T.	Q. KHUMALO	B.OLIVIE R	09.10.2018			
12	0592760 AND 0592761 ADDED			P.A.T.	Q. KHUMALO	J. PAULSE	19.12.2014			
11	M/SUB 500kVA 22kV/420V CB INLDH/RSK ADDED			P.A.T.	B.MWAREHWA	R.KELLY	10.06.2011			
REV	REVISION DESCRIPTION			BY	CHKD	AUTH	DATE	REF. DRAWINGS		
AUTH:	P. CROWDY	DATE:	05.02.1998	SCALE NTS			SAP No:			
CHKD:	D. PILLAY	DATE:	05.02.1998	CAD REF: SERIES 8000			0182416		0592760	
DRAWN:	P.A. VERMAAK	DATE:	13.11.1997	FILE No: 8050			0182417		0182418	
					D-DT-8051		SET	SHEET	REV	
							6	5	13	

SPEC SHEET

SAP MATERIAL No.:	0650057									
SHORT DESCRIPTION:	SWITCHG:MS HR 1MVA 3C;B CSTL;CB;22KV									
TECH. DESCRIPTION:										
<p>SWITCHGEAR: DESIGN TYPE: MS HR 1MVA 3C; APPLICATION: B CSTL; STYLE DESIGNATOR: CB; POTENTIAL: 22 KV; SHORT CIRCUIT CURRENT: 20 KA; PANEL RATING: 1000 KVA; BUSBAR RATING: 630 A; ENCLOSURE RATING: 3CR12; CURRENT: 630 A; INTERRUPTING CAPACITY: 20 KA; SWITCHING METHOD: CB; CONTINUOUS CURRENT: 630 A; MOUNT: CONCRETE PLINTH; POWER CONNECTION: CABLE; SPECIFICATION: ESKOM: 240- 56062752; SANS 1029; TAP SWITCH: ± 5PCT; FITTED WITH TRANSFORMER; A 22 KV RING MAIN UNIT (RMU) SHALL BE USED FOR 22KV HIGH-RISK (HR) MINI SUB (MS); CABLE COMPARTMENT TO ACCOMMODATE 1 X THREE CORE MV CABLE; TYPE B (B); CIRCUIT BREAKER (CB); 22KV/420V; FOR COASTAL APPLICATION (CSTL); ESKOM DRAWING No. D-DT-8051 *</p>										
SAP MATERIAL No.:	0650058									
SHORT DESCRIPTION:	SWITCHG:MS HR 1MVA 1C;B CSTL;CB;22KV									
TECH. DESCRIPTION:										
<p>SWITCHGEAR: DESIGN TYPE: MS HR 1MVA 1C; APPLICATION: B CSTL; STYLE DESIGNATOR: CB; POTENTIAL: 22 KV; SHORT CIRCUIT CURRENT: 20 KA; PANEL RATING: 1000 KVA; BUSBAR RATING: 630 A; ENCLOSURE RATING: 3CR12; CURRENT: 630 A; INTERRUPTING CAPACITY: 20 KA; SWITCHING METHOD: CB; CONTINUOUS CURRENT: 630 A; MOUNT: CONCRETE PLINTH; POWER CONNECTION: CABLE; SPECIFICATION: ESKOM: 240- 56062752; SANS 1029; TAP SWITCH: ± 5PCT; FITTED WITH TRANSFORMER; A 22 KV RING MAIN UNIT (RMU) SHALL BE USED FOR 22KV HIGH-RISK (HR) MINI SUB (MS); CABLE COMPARTMENT TO ACCOMMODATE 3 X SINGLE CORE MV CABLE; TYPE B (B); CIRCUIT BREAKER (CB); 22KV/420V; FOR COASTAL APPLICATION (CSTL); ESKOM DRAWING No. D-DT8051 *</p>										
SAP MATERIAL No.:	0650059									
SHORT DESCRIPTION:	SWITCHG:MS HR 500KVA 1C;B CSTL;CB;22KV									
TECH. DESCRIPTION:										
<p>SWITCHGEAR: DESIGN TYPE: MS HR 500KVA 1C; APPLICATION: B CSTL; STYLE DESIGNATOR: CB; POTENTIAL: 22 KV; SHORT CIRCUIT CURRENT: 20 KA; PANEL RATING: 500 KVA; BUSBAR RATING: 630 A; ENCLOSURE RATING: 3CR12; CURRENT: 630 A; INTERRUPTING CAPACITY: 20 KA; SWITCHING METHOD: CB; CONTINUOUS CURRENT: 630 A; MOUNT: CONCRETE PLINTH; POWER CONNECTION: CABLE; SPECIFICATION: ESKOM: 240- 56062752; SANS 1029; TAP SWITCH: ± 5PCT; FITTED WITH TRANSFORMER; A 22 KV RING MAIN UNIT (RMU) SHALL BE USED FOR 22KV HIGH-RISK (HR) MINI SUB (MS); CABLE COMPARTMENT TO ACCOMMODATE 3 X SINGLE CORE MV CABLE; TYPE B (B); CIRCUIT BREAKER (CB); 22KV/420V; FOR COASTAL APPLICATION (CSTL); ESKOM DRAWING No. D-DT8051 *</p>										
13	SAP'S 0650057 TO 0650059 ADDED				P.A.T.	Q. KHUMALO	B.OLIVIER	09.10.2018		
12	0592760 AND 0592761 ADDED				P.A.T.	Q. KHUMALO	J. PAULSE	19.12.2014		
11	M/SUB 500kVA 22kv/420V CB INLDH/RSK ADDED				P.A.T.	B.MWAREHWA	R.KELLY	10.06.2011		
REV	REVISION DESCRIPTION				BY	CHKD	AUTH	DATE	REF. DRAWINGS	
AUTH:	P. CROWDY	DATE:	05.02.1998	SCALE	 D-DT-8051		SAP No:			
CHKD:	D. PILLAY	DATE:	05.02.1998	NTS			0650057		0650059	
				CAD REF:			0650058			
				SERIES 8000						
DRAWN:	P.A. VERMAAK	DATE:	13.11.1997	FILE No:			SET	SHEET	REV	
				8050			6	6	13	