# SECTION 5 – SWITCHES, FUSES, RECLOSERS AND SECTIONALISERS

**VERSION 2.1** 

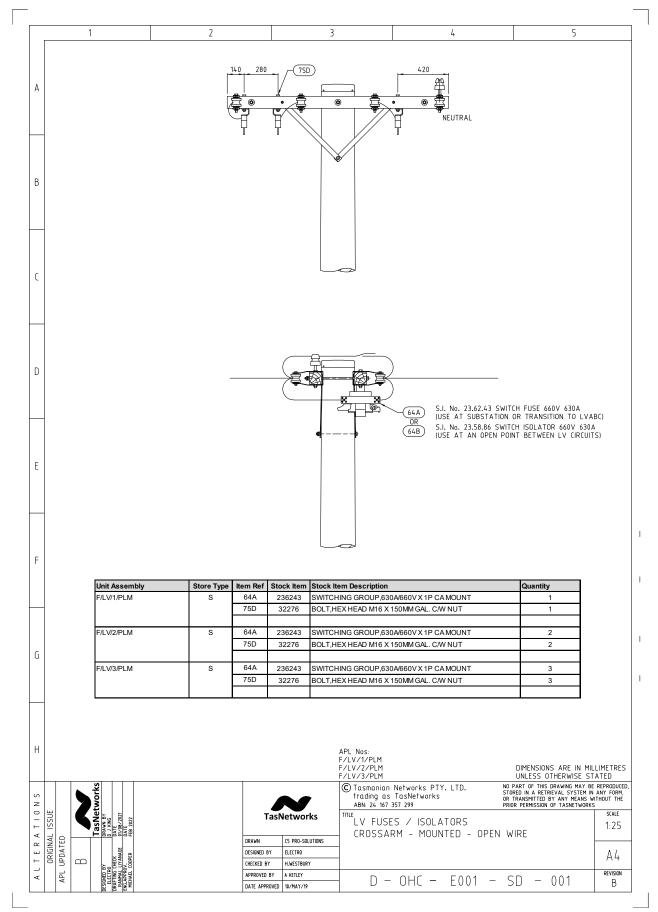
# SECTION 5 – SWITCHES, FUSES, RECLOSERS & SECTIONALISERS

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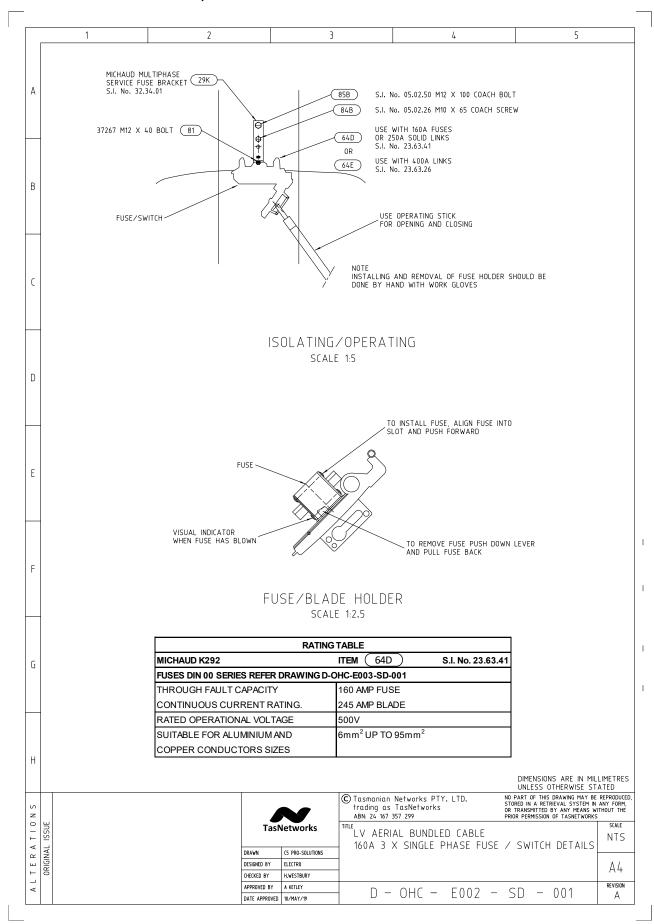
For installation on Titan Poles, refer to Section 10.3.

# 5.1LV Isolators / Fuses

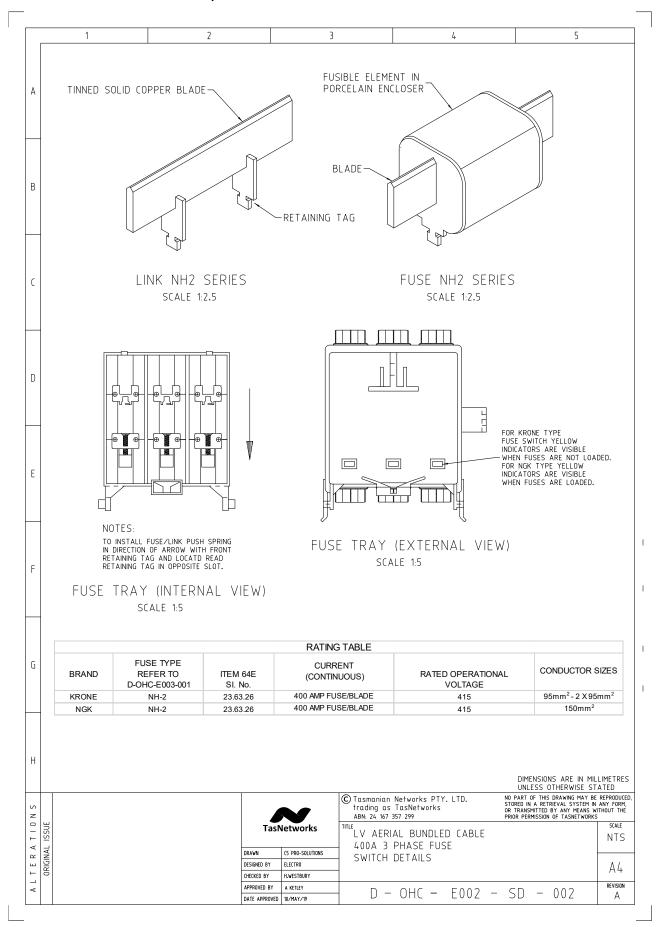
## 5.1.1 LV Open Wire - Crossarm Mounted Isolators / Fuses



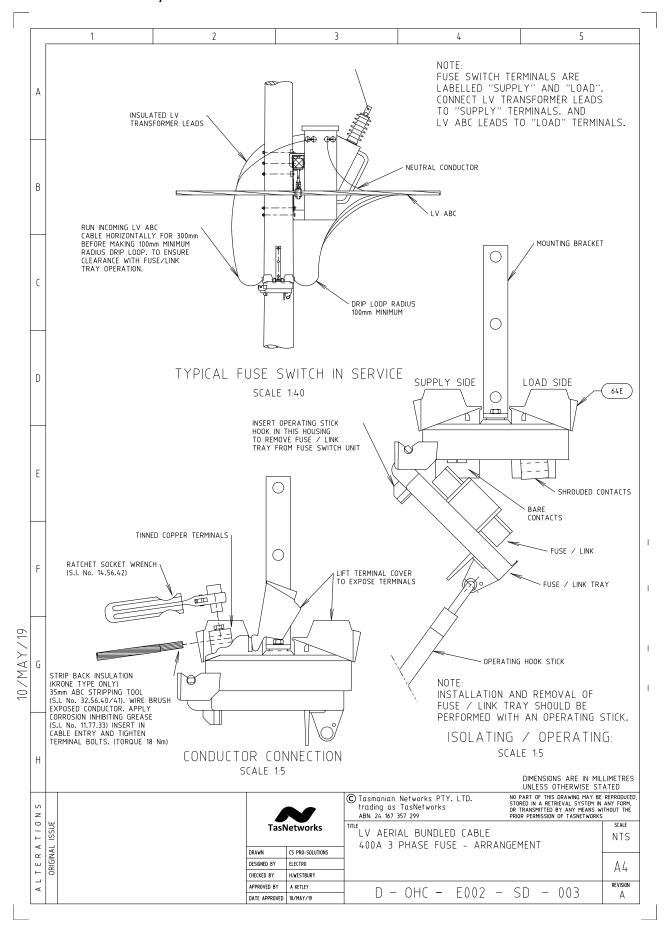
## 5.1.2 LVABC – Isolators / Fuses



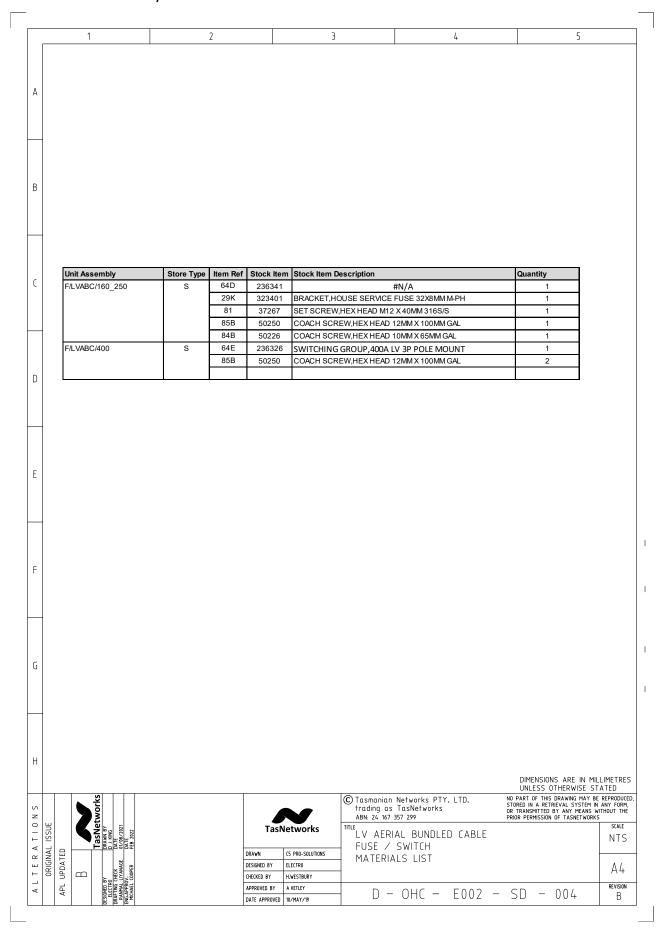
# 5.2LVABC – Isolators / Fuses



## LVABC – Isolators / Fuses



## LVABC - Isolators / Fuses - Materials List

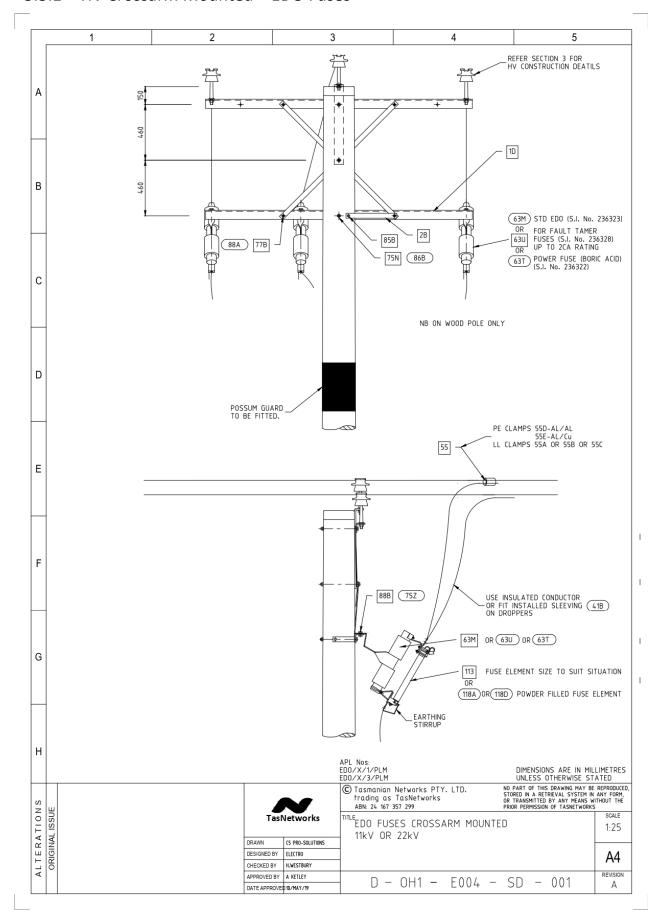


# 5.2.1 LV Fuse Selection

	1	2	3	4		5
A						
	AVOID LONG LENGTH VOLTAGE FAULTS. V	S OF LOW VOLTAGE CIRCUITS OTHE OLTAGE DROP USUALLY DETERMINE	ERWISE LV FUSES MAY NOT OPERATE FO ES THE MAXIMUM CABLE RUN.	OR LOW		
В		FUSE TYPE & SIZE	LV FUSE RATING (AMPS)	S.I. No.		
		NH-00	63	22.22.07		
		NH-00	80	22.22.08		
		NH-00	100	22.22.09		
		NH-00	125	22.22.10		
-		NH-00	160	22.22.11		
		NH-2	160	22.22.21		
		NH-2	250	22.22.22		
		NH-2	315	22.22.23		
		NH-2	400	22.22.24		
D		OTKF	250	22.26.89	OBSOLETE	
		OTKF	450	22.28.20	OBSOLETE	
E	2. NH TYPE SIZE 00 3. NH TYPE SIZE 2 I	FUSES ARE REQUIRED FOR LV ABO	SE ISOLATOR S.I. No. 23.62.40 OBSOLETE C FUSE SWITCHES S.I. No. 23.62.41 ITEM FUSE SWITCHES S.I. No. 23.63.26 ITEM ( ANSFORMER SIZE.	64D LVABC SINGLE PHAS	E	
	1. * USE OF OTKF F 2. NH TYPE SIZE 00 3. NH TYPE SIZE 2 I	FUSES ARE REQUIRED FOR LV ABO FUSES ARE REQUIRED FOR LV ABO	FUSE SWITCHES S.I. No. 23.62.41 ITEM FUSE SWITCHES S.I. No. 23.63.26 ITEM 6	64D LVABC SINGLE PHAS	Ε	
	1. * USE OF OTKF F 2. NH TYPE SIZE 00 3. NH TYPE SIZE 2 I	FUSES ARE REQUIRED FOR LV ABO FUSES ARE REQUIRED FOR LV ABO	FUSE SWITCHES S.I. No. 23.62.41 ITEM FUSE SWITCHES S.I. No. 23.63.26 ITEM 6	64D LVABC SINGLE PHAS	E	
	1. * USE OF OTKF F 2. NH TYPE SIZE 00 3. NH TYPE SIZE 2 I	FUSES ARE REQUIRED FOR LV ABO FUSES ARE REQUIRED FOR LV ABO	FUSE SWITCHES S.I. No. 23.62.41 ITEM FUSE SWITCHES S.I. No. 23.63.26 ITEM 6	64D LVABC SINGLE PHAS	E	
F	1. * USE OF OTKF F 2. NH TYPE SIZE 00 3. NH TYPE SIZE 2 I	FUSES ARE REQUIRED FOR LV ABO FUSES ARE REQUIRED FOR LV ABO	FUSE SWITCHES S.I. No. 23.62.41 ITEM FUSE SWITCHES S.I. No. 23.63.26 ITEM 6	64D LVABC SINGLE PHAS	E	
F	1. * USE OF OTKF F 2. NH TYPE SIZE 00 3. NH TYPE SIZE 2 I	FUSES ARE REQUIRED FOR LV ABO FUSES ARE REQUIRED FOR LV ABO	FUSE SWITCHES S.I. No. 23.62.41 ITEM FUSE SWITCHES S.I. No. 23.63.26 ITEM 6	64D LVABC SINGLE PHAS	E	
F G	1. * USE OF OTKF F 2. NH TYPE SIZE 00 3. NH TYPE SIZE 2 I	FUSES ARE REQUIRED FOR LV ABO FUSES ARE REQUIRED FOR LV ABO	E FUSE SWITCHES S.I. No. 23.63.26 ITEM 6 PLOSE SWITCHES S.I. No. 23.63.26 ITEM 6 PLOSE SWITCHES SIZE.	64D LVABC SINGLE PHAS 64E LVABC 3 PHASE	DIMENSIONS AR UNLESS OTHER	WISE STATED
F G H SN	1. * USE OF OTKF F 2. NH TYPE SIZE 00 3. NH TYPE SIZE 2 4. REFER SECTION 6.	FUSES ARE REQUIRED FOR LV ABC FUSES ARE REQUIRED FOR LV ABC .8 FOR MATCHING FUSE SIZE TO TR	© Tasmanian No. 23.62.41 ITEM ( FUSE SWITCHES S.I. No. 23.63.26 ITEM ( ANSFORMER SIZE.	etworks PTY. LTD. asNetworks 299	DIMENSIONS AR	WISE STATED  NG MAY BE REPRODUC SYSTEM IN ANY FORM ( MEANS WITHOUT THI SNETWORKS  SCALE
TERATIONS TO CORRECT TO THE RATIONS ORIGINAL ISSUE	1. * USE OF OTKF F 2. NH TYPE SIZE 00 3. NH TYPE SIZE 2 4. REFER SECTION 6.	FUSES ARE REQUIRED FOR LV ABC FUSES ARE REQUIRED FOR LV ABC 8 FOR MATCHING FUSE SIZE TO TR  BRAWN DESIGNED	TasNetworks  C FUSE SWITCHES S.I. No. 23.63.26 ITEM 6  TasNetworks  C FRO-SOLUTIONS  D BY ELECTRO  TUSNES S.I. No. 23.63.26 ITEM 6  Tasmanian Ne frading as Trading as Trading as Trading as Trading as Trading as Trading Tra	etworks PTY. LTD. asNetworks 299	DIMENSIONS AR UNLESS OTHER NO PART OF THIS DRAW! STORED IN A RETREVAL OR TRANSMITED BY AN	NG MAY BE REPRODUC SYSTEM IN ANY FORM 1 MEANS WITHOUT THI SNETWORKS
F G H SNOLL SINGLE	1. * USE OF OTKF F 2. NH TYPE SIZE 00 3. NH TYPE SIZE 2 4. REFER SECTION 6.	FUSES ARE REQUIRED FOR LV ABC FUSES ARE REQUIRED FOR LV ABC 8 FOR MATCHING FUSE SIZE TO TR  DRAWN DESIGNATE GHOCKED APPROVI	TasNetworks  C FUSE SWITCHES S.I. No. 23.63.26 ITEM 6  TasNetworks  C FRO-SOLUTIONS  D BY ELECTRO BY H.WESTBURY	etworks PTY. LTD. asNetworks 299	DIMENSIONS AR UNLESS OTHER NO PART OF THIS DRAWI STORED IN A RETREVAL OR TRANSMITED BY AN PRIOR PERMISSION OF TA	WISE STATED  NO MAY BE REPRODU  SYSTEM IN ANY FORM  MEANS WITHOUT TH  SNETWORKS  SCALE  NTS

## 5.3 HV EDO Fuses

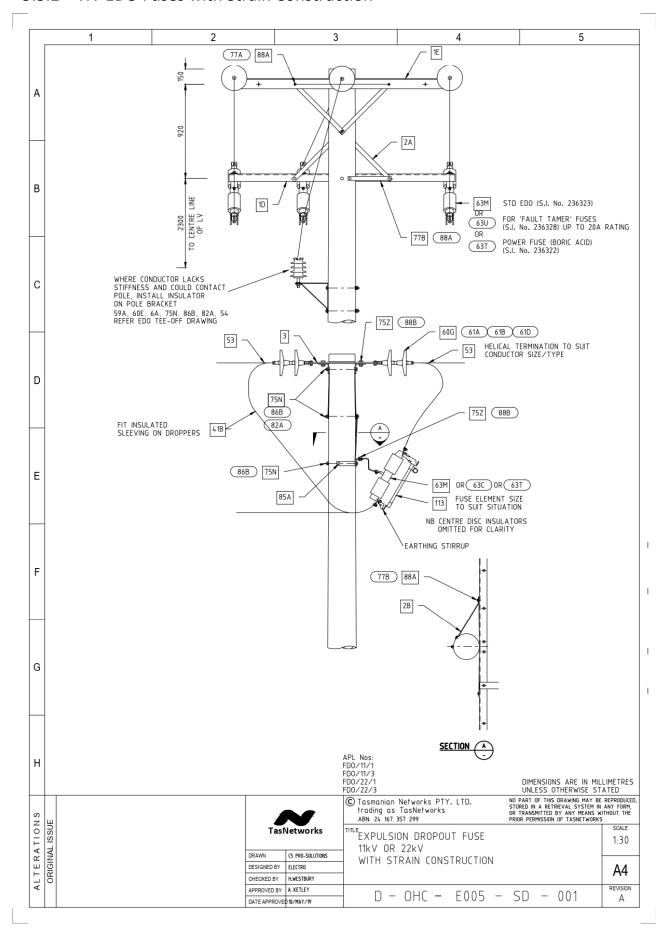
## 5.3.1 HV Crossarm Mounted – EDO Fuses



# HV - Crossarm Mounted EDO Fuses - Materials List

	1		2		3		4		5
4									
1									
_			(	OHCM - S	Section 5 Switches F	uses			
	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description			Quantity	
	EDO/X/1/PLM	S	1D	323304	CROSSARM,STEEL 75 X 7			1	
3	1 phase includes EDO crossarm		2B 63M	323317 236323	BRACE,CROSSARM 40 X FUSE,CUTOUT 100A/25K			2	
	excludes Top HV construction,		75N	32288	BOLT,HEX HEAD M16 X 35			2	
	leads and connectors		75Z	32261	BOLT,HEX HEAD M16 X 45			2	
			85B 86B	50250 65158	COACH SCREW, HEX HEA WASHER, FLAT ROUND M		SAL	2	
			88B	66413	WASHER,FLAT ROUND M			2	
-			2A	323314	BRACE,CROSSARM 40 X			2	
	EDO/X/3/PLM 3 phase	S	1D 2B	323304 323317	CROSSARM,STEEL 75 X 7 BRACE,CROSSARM 40 X			1	
	includes EDO crossarm		63M	236323	FUSE,CUTOUT 100A/25K			3	
_	excludes Top HV construction,		75N	32288	BOLT,HEX HEAD M16 X 35			2	
	leads and connectors		75Z 85B	32261 50250	BOLT, HEX HEAD M16 X 45 COACH SCREW, HEX HEA			1	
			86B	65158	WASHER,FLAT ROUND M			2	
)			88B 2A	66413	WASHER,FLAT ROUND M			3	
			ZA	323314	BRACE,CROSSARM 40 X	700 X SMM THICK G	6AL	2	
F									
Ĺ									
+					♠ Tasmasia	In Networks DTV	I TN	UNLESS OTH	ERWISE STATED
S N O	ISSUE			TasNe	tworks trading the ABN: 24 16	JSES		UNLESS OTH  NO PART OF THIS DRA  STORED IN A RETRIEV	ERWISE STATED AWING MAY BE REPRODU AL SYSTEM IN ANY FORI ANY MEANS WITHOUT TH TASNETWORKS SCALE
	ORIGINAL ISSUE		0	DRAWN CS DESIGNED BY EL	tworks  TITLE  PRO-SOLUTIONS  PRO-SOLUTIONS  MATER	as TasNetworks 57 357 299		UNLESS OTH  NO PART OF THIS DRA STORED IN A RETRIEV OR TRANSMITTED BY	AWING MAY BE REPRODUC AL SYSTEM IN ANY FORM ANY MEANS WITHOUT TH
0 N O			0	DRAWN CS DESIGNED BY EL HECKED BY H. APPROVED BY A	tworks  TITLE EDO FI CROSS MATER WESTBURY	as TasNetworks 57 357 299 JSES ARM MOUNTE	D	UNLESS OTH NO PART OF THIS DR. STORED IN A RETRIEV OR TRANSMITTED BY PRIOR PERMISSION OF	ERWISE STATED  WINIG MAY BE REPRODU AL SYSTEM IN ANY FOR ANY MEANS WITHOUT TH TASNETWORKS  SCALE  NTS  A4

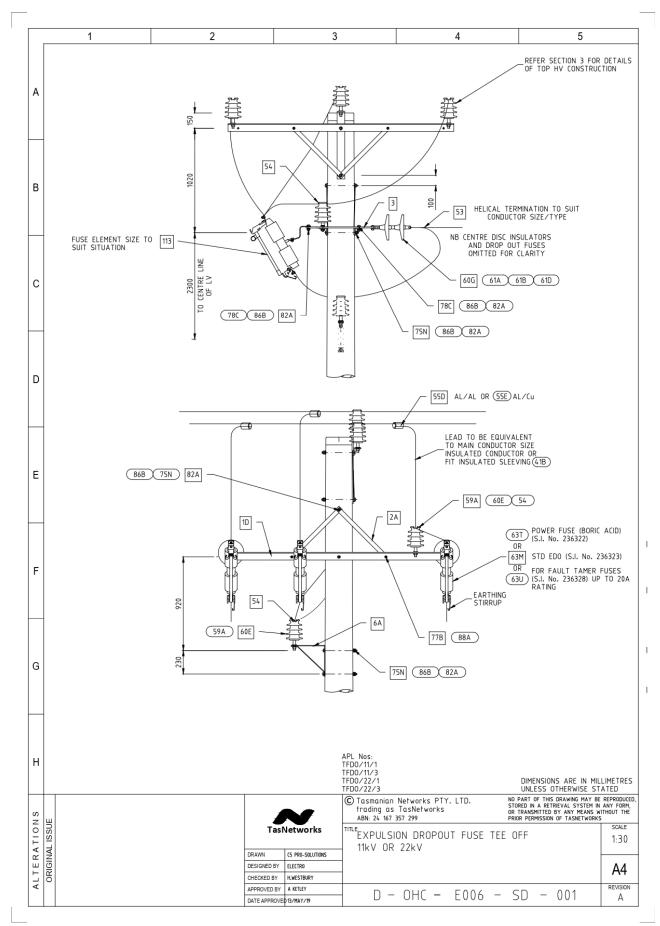
## 5.3.2 HV EDO Fuses with Strain Construction



# HV EDO Fuses with Strain Construction – Materials List

			2		3		4	5
	Unit Assembly	Store Type	Item Ref	Stock Iter	n Stock Item I	Description		Quantity
	FDO/11/1/PLM	S	3	323310		NN DOUBLE PIN 65 X 12M	MSTEEL	2
	FDO/22/1/PLM		1D	323304	CROSSARM	STEEL 75 X 75 X 2210MM	MK4 GAL	1
1	1 phase		1E	323305	_	STEEL 100 X 100 X 2210N		2
	includes EDO crossarm and strain construction		2B 60G	323317 321260		SSARM 40 X 5 X 500MM FL SUSPENSION 146MM DIS		1 4
	Strain Construction		61A	322056		D-END BALL 16MM 70KN M		4
			61B	322386		R,ROD-END 16MM 80KN N		4
			61D	322090	_	RITY 7.9MM S/STEEL 16B-V		4
			63M 75N	236323		UT 100A/25KV 1P PRIMAR		2
1			75N 75Z	32288 32261		EAD M16 X 350MM GAL. C/ EAD M16 X 45MM GAL. C/V		3 8
			77B	33771	<del>-</del>	EAD M12 X 35MM GAL. C/V		4
			82A	40441	NUT,HEX M1	6 THREAD GALANISED ST	ΓEEL	4
			85A	50248	_	REW,HEX HEAD 12MM X 75		1
			86B 88A	65158 66412		AT ROUND M16 X 50MM G. AT ROUND M12 X 24MM		3 4
			88B	66413		AT ROUND M16 X 30 X 5M		10
1			2A	323314		SSARM 40 X 700 X 5MM TH		6
			41B	157877		LECT INSUL POLY 6MM X	30MBLK	4
	FDO/11/3/PLM	S	3	323310		NN DOUBLE PIN 65 X 12M		2
	FDO/22/3/PLM 3 phase		1D 1E	323304 323305	_	STEEL 75 X 75 X 2210MM, STEEL 100 X 100 X 2210N		1 2
	includes EDO crossarm and		2B	323317	_	SSARM 40 X 5 X 500MM FL		1
	strain construction		60G	321260	_	SUSPENSION 146MM DIS		6
-			61A	322056		D-END BALL 16MM 70KN M		6
			61B 61D	322386	_	R,ROD-END 16MM 80KN N		6
			63M	322090 236323		RITY 7.9MM S/STEEL 16B-V UT 100A/25KV 1P PRIMAR		6 3
			75N	32288		EAD M16 X 350MM GAL. C		3
			75Z	32261		EAD M16 X 45MM GAL. C/V		9
			77B	33771		EAD M12 X 35MM GAL. C/V		4
1			82A 85A	40441 50248	_	6 THREAD GALANISED ST REW,HEX HEAD 12MM X 75		1
			86B	65158	_	AT ROUND M16 X 50MM G		3
			88A	66412		AT ROUND M12 X 24MM G		4
			88B	66413		AT ROUND M16 X30 X5M		11
			41B					
i			88B 2A		WASHER,FL BRACE,CRO		M GAL HICK GAL	

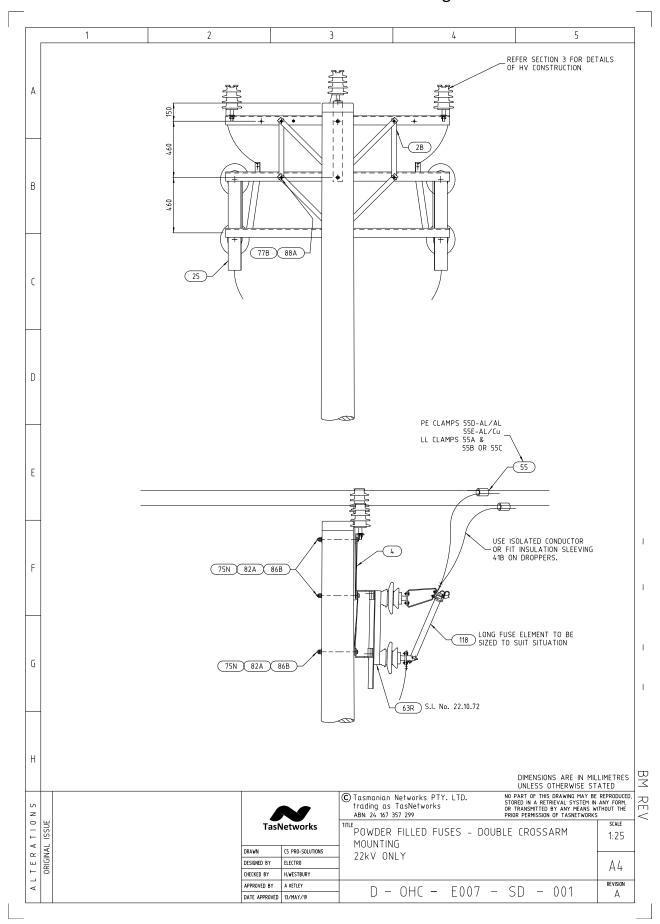
#### 5.3.3 HV EDO Fuses with Tee-Off Construction



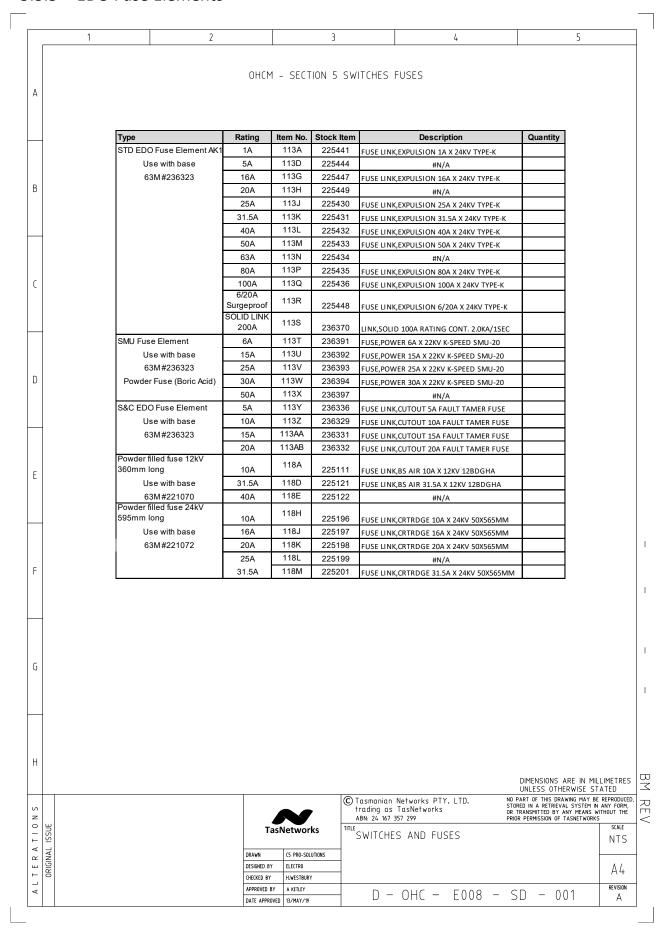
# HV EDO Fuses with Tee-Off Construction – Materials List

	1		2		3			4		5
A	Unit Assembly	Store Type	Item Ref	Stock Iten	n Stock Item I	Description			Quantity	
	FDO/11/1/PLM	S	3	323310		IN DOUBLE PIN	65 X 12MM STE	L	2	
	FDO/22/1/PLM		1D	323304	CROSSARM	STEEL 75 X 75 X	2210MM MK4 G	AL	1	
	1 phase		1E	323305	CROSSARM	STEEL 100 X 100	) X 2210MM GAL		2	
	includes EDO crossarm and		2B	323317	_	SSARM 40 X 5 X			1	
	strain construction		60G	321260	_	SUSPENSION 14			4	
	Strain construction		61A	322056	_	-END BALL 16MM			4	
			61B	322386		R,ROD-END 16M			4	
В			61D	322360				LIVICI		
					+	RITY 7.9MM S/STE		II CN	4	
			63M	236323	_	UT 100A/25KV 1F			2	
			75N	32288		EAD M16 X 350M			3	
			75Z	32261	BOLT,HEXH	EAD M16 X 45MN	I GAL. C/W NUT		8	
			77B	33771	BOLT,HEX H	EAD M12 X35MN	I GAL. C/W NUT		4	
			82A	40441	NUT,HEX M1	6 THREAD GALA	NISED STEEL		4	
.			85A	50248	COACH SCF	REW,HEX HEAD 1	2MM X 75MM GA	L	1	
			86B	65158	WASHER,FL	AT ROUND M16 >	X 50MM GAL	_	3	
			88A	66412	WASHER.FL	AT ROUND M12	X 24MM GAL		4	
			88B	66413		AT ROUND M16 X			10	
			2A	323314	_	SSARM 40 X 700		AL	6	
$\dashv$			41B	157877		LECT INSUL POL			4	
	EDO/11/2/DLM	S	3	323310					2	
	FDO/11/3/PLM	3			_	IN DOUBLE PIN			_	
	FDO/22/3/PLM		1D	323304	_	STEEL 75 X 75 X		ML	1	
D	3 phase		1E	323305		STEEL 100 X 100			2	
	includes EDO crossarm and		2B	323317		SSARM 40 X 5 X			1	
	strain construction		60G	321260	INSULATOR	SUSPENSION 14	46MM DISC D70	S	6	
			61A	322056	CLEVIS,ROD	-END BALL 16MN	M 70KN MIN-FAI		6	
$\dashv$			61B	322386	CONNECTO	R,ROD-END 16M	IM 80KN MIN-FA	L MCI	6	
			61D	322090	CLIP,SECUF	RITY 7.9MM S/STE	EL 16B-WCLIP	_	6	
			63M	236323		UT 100A/25KV 1F		JLSN	3	
			75N	32288		EAD M16 X 350M			3	
E			75Z	32261	-	EAD M16 X45MN			9	
			77B	33771		EAD M12 X35MN			4	
			82A							
				40441	+	6 THREAD GALA		1	4	
4			85A	50248		REW,HEX HEAD 1		L.	1	
			86B	65158		AT ROUND M16 >			3	
			88A	66412		AT ROUND M12 )			4	
			88B	66413		AT ROUND M16 X			11	
FΙ			2A	323314	BRACE,CRC	SSARM 40 X 700	X 5MM THICK G	AL	6	
			41B	157877	SLEEVING,E	LECT INSUL POL	Y6MMX30MB	_K	6	
<u> </u>										
T S N O I I				TasM	letworks	trading as ABN: 24 167	Networks PTY. TasNetworks 357 299 ON DROPOU		UNLESS IN PART OF THIS STORED IN A RET OR TRANSMITTED PRIOR PERMISSION	NS ARE IN MIL OTHERWISE ST 5 DRAWING MAY BE RIEVAL SYSTEM IN BY ANY MEANS WI N OF TASNETWORKS
. 110				DRAWN	C5 PRO-SOLUTIONS	11kV OR MATERIA	22kV			
				DESIGNED BY	ELECTRO		LS LIST			1
Y Z				DESIGNED BY CHECKED BY APPROVED BY	ELECTRO H.WESTBURY A KETLEY		OHC -			

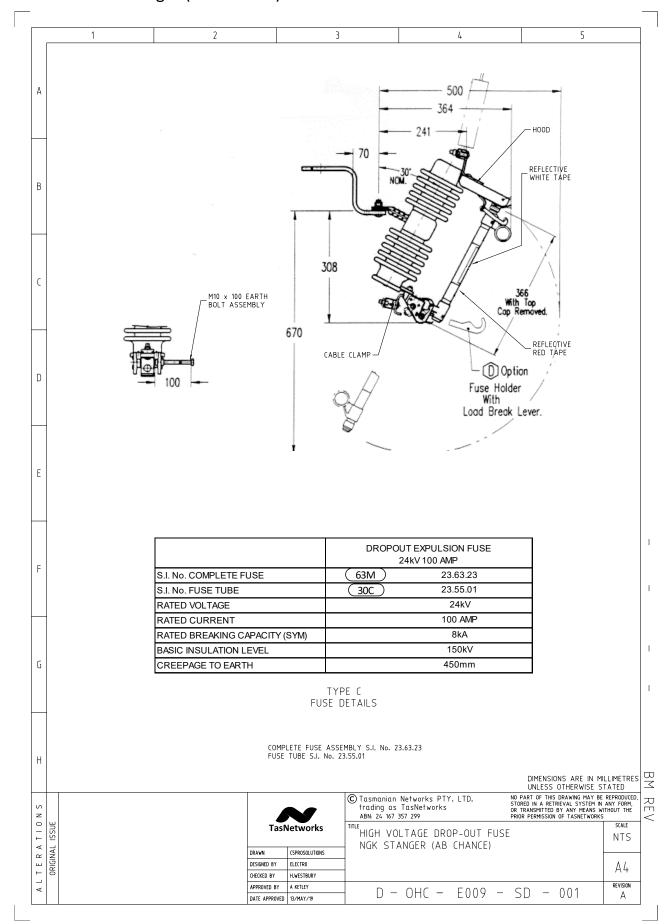
## 5.3.4 Powder Filled Fuses – Double Crossarm Mounting



#### 5.3.5 EDO Fuse Elements



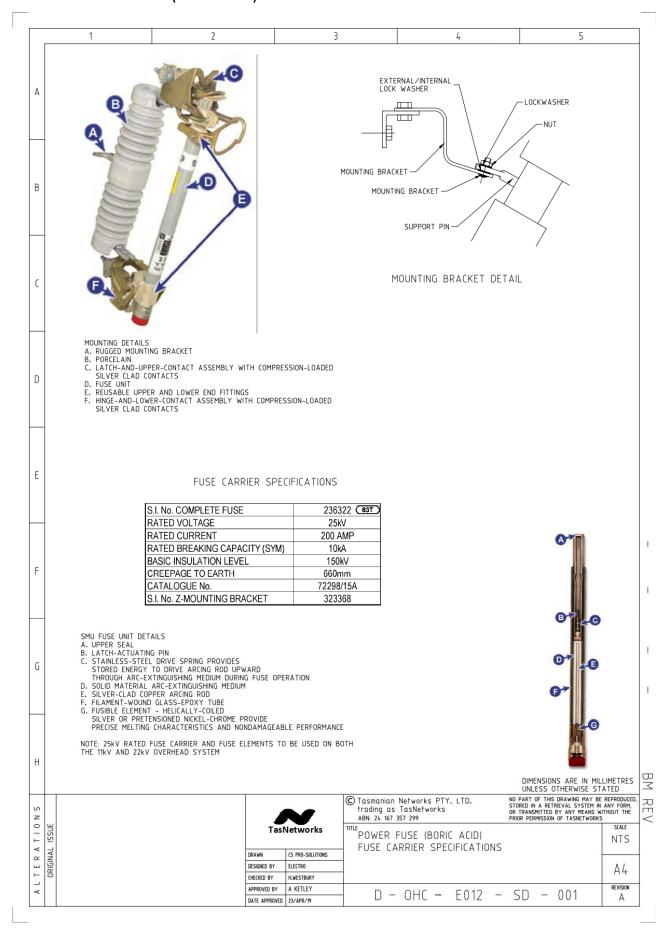
## 5.3.6 NEK Stranger (A B Chance) EDOs



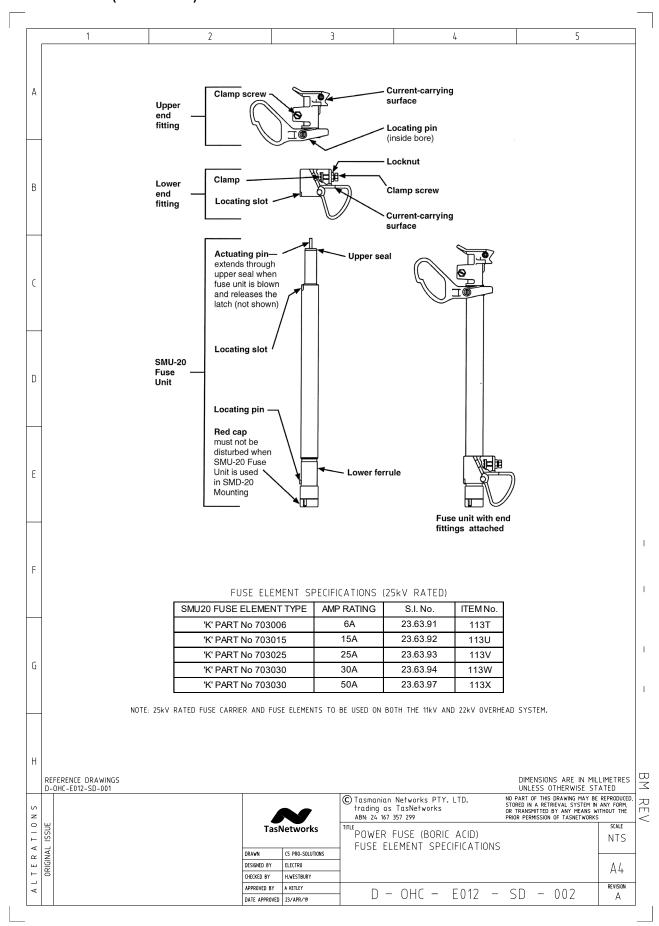
# Morlynn EDOs – Notes

	1 2 3 4 5
A	DROPOUT EXPULSION FUSE 24kV-100AMP
В	GENERAL  THE OLD DESIGN OF DROPOUT EXPULSION FUSE, SERIES RE MANUFACTURED BY MORLYNN POWER HAS BEEN REPLACED BY THE AB CHANCE (NGK STANGER) TYPE.  THE RE TYPE DROPOUT EXPULSION FUSE IS A DELAYED DUAL VENTING TYPE, SINGLE PHASE, SINGLE INSULATOR, CROSSARM MOUNTING, HOOK STICK OPERATED SUITABLE FOR BOTH 12kV AND 24kV APPLICATIONS.  THE SPARKLESS FUSES AND CONVENTIONAL 'K" OR 'T' TYPE FUSE LINKS ARE AVAILABLE FOR USE IN THE FUSE CARRIER WHICH INTERRUPT AND DROPS OPEN WHEN THE FUSIBLE ELEMENT OF THE FUSE LINK RUPTURES ON EXCESS CURRENTS. "SPARKLESS" FUSE ELEMENTS ARE NOT SPARK-FREE, BUT PRODUCES FEWER SPARKS THAN THE OLDER ELEMENTS.
С	APPLICATION  THEIR APPLICATION IS FOR THE PROTECTION OF DISTRIBUTION TRANSFORMERS AND SPUR LINES THE FUSE SWITCH DROPPING OPEN TO ISOLATE THE FAULTY UNIT OR SYSTEM SECTION UNDER FAULT CONDITIONS, AT THE SAME TIME PROVIDING A CLEAR INDICATION OF THE FUSE OPERATION, THE DUTY OF THE FUSE FITTING SHOULD BE SELECTED SO THAT ITS FAULT RATING IS NOT EXCEEDED BY THE LOCAL HV FAULT LEVEL. THE REMOVABLE CAP SCREWED TO THE TOP OF THE FUSE CARRIER IS FITTED WITH A 65mm LONG STAINLESS STEEL TUBE TO INCREASE THE FAULT RATING OF THE FUSE FROM THE STANDARD 6KA TO 8KA RATING WHICH RELATES TO 300MVA AT 22kV AND 150MVA AT 11kV THE FAULT RATING OF THE FUSE IS RESTRICTED TO 2kA, WHICH RELATES TO 75MVA AT 22kV AND 37.5MVA AT 11kV, WHEN THE DROPPOUT FUSE FITTING IS FITTED WITH A SPARK CATCHER, AS THIS IS THE MAXIMUM FAULT RATING OF THE POSE FITTING IS FITTED WITH A SPARK CATCHER, AS THIS IS THE
D	FUSE CARRIERS
E	THE FUSE CARRIER GREY IN COLOUR CONSISTS OF A FIBREGLASS RE-INFORCED TUBE WITH A VULCANISED FIBRE LINING, WITH CONTACTS AT EACH END. THE TOP CONTACT CONSIST OF AN ELECTRO-TINNED BRASS CASTING PRESSED ON TO THE TUBE. THIS CASTING BY PROVIDED WITH CONTACT EXTENSIONS TO ENGAGE THE CONTACT HORNS, A HOOK STICK PULLING EYE AND SCREWED CAP, FITTED WITH A STAINLESS STEEL TUBE, FOR CLAMPING THE TERMINAL OF THE FUSE LINK. THE TOP END OF THE CASTING IS HOLLOW TO ALLOW THE FUSE LINK TO PASS THROUGH THE ASSEMBLY AND IS THREADED AT THE TOP EXTERNALLY TO ALLOW THE TOP CAP TO BE SCREWED ON.  THE SCREWED TOP CAP HAS A SAFETY DISC TO ALLOW THE TUBE TO DOUBLE VENT AT HIGH FAULT LEVELS. WHEN THIS HAPPENS THE DISC MUST BE REPLACED. WASHERS MUST NEVER BE SUBSTITUTED FOR THE STANDARD DISC.  THE FUSE CARRIER WILL FIT THE STANDARD AND HEAVY DUTY FUSE FITTINGS AND REPLACES BOTH THE STANDARD DUTY FUSE CARRIER (S.I. No 23.63.75) AND THE HEAVY DUTY FUSE CARRIER (S.I. No 23.63.77)
F	THE EXISTING EXTRA HEAVY DUTY FUSE CARRIER (S.I. No 23.63.79) WILL BE HELD ON STOCK FOR USE IN EXISTING EXTRA HEAVY DUTY FUSE FITTINGS.  THE OLD FUSE CARRIERS WITH PVC OUTER SHEATH ARE SUBSTANDARD COMPONENTS AND MUST BE REPLACED.
	FUSE LINKS  THE CURRENT RATING OF FUSE LINKS APPLICABLE TO 22kV AND 11kV DISTRIBUTION TRANSFORMERS IS TABULATED IN THE APPROPRIATE OPERATING MANUAL AND THE OPERATIONAL MANUAL. THE FUSE LINK HAS THE CURRENT RATING AND TYPE STAMPED ON THE END TERMINAL.  SPARKLESS FUSES HAVING CLASS 'K' CHARACTERISTICS ARE AVAILABLE IN SIZES UP TO 16 AMP AND ARE NORMALLY USED FOR
G	PROTECTION OF DISTRIBUTION TRANSFORMERS AND THE SMALLER SPUR LINES.
Н	<ul><li>OBSOLETE</li><li>FOR REFERENCE ONLY</li></ul>
A L T E R A T I O N S ORIGINAL ISSUE	TasNetworks    Casmanian Networks PTY. LTD.   NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETREVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY HEAD WITHOUT THE PRIOR PERMISSION OF TASNETWORKS    DESIGNED BY   LECTRO   CHECKED BY   LWESTBURY     DATE APPROVED BY   DATE A

## 5.3.7 Power Fuse (Boric Acid)

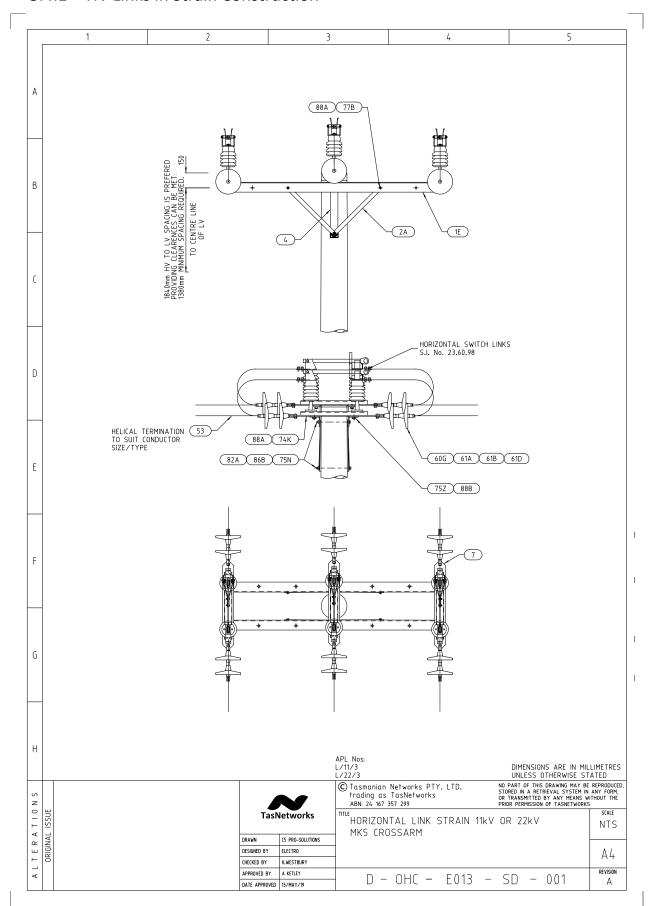


## Power Fuse (Boric Acid)



## 5.4 HV Links

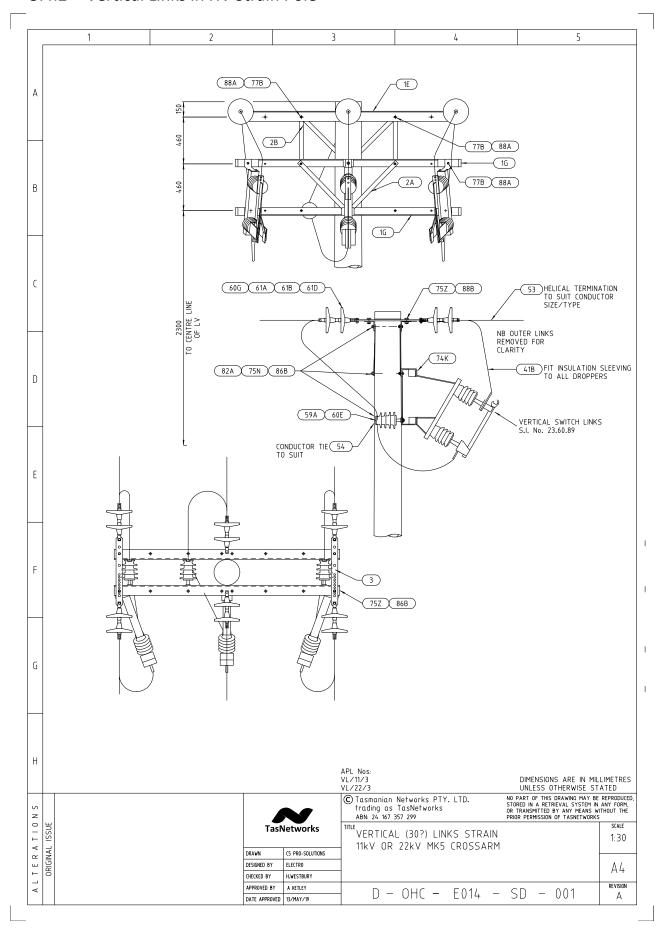
## 5.4.1 HV Links in Strain Construction



# HV Links in Strain Construction – Materials List

			2		3 4	5	
A							
	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity	
	L/11/3/PLM	S	4	323311	BRACKET,RIGHT ANGLE 75 X 12MM GAL	2	
	L/22/3/PLM		7	323318	PLATE,MOUNTING 110 X 10MM HORIZONTAL LNK	3	
			1E 60G	323305 321260	CROSSARM,STEEL 100 X 100 X 2210MM GAL INSULATOR,SUSPENSION 146MM DISC D70S	6	
В			61A	322056	CLEVIS,ROD-END BALL 16MM 70KN MIN-FAIL	6	
			61B	322386	CONNECTOR,ROD-END 16MM 80KN MIN-FAIL MCI	6	
			61D	322090	CLIP,SECURITY 7.9MM S/STEEL 16B-WCLIP	6	
			75N 75Z	32288 32261	BOLT,HEX HEAD M16 X 350MM GAL. C/W NUT BOLT,HEX HEAD M16 X 45MM GAL. C/W NUT	2 4	
			77B	33771	BOLT, HEX HEAD M10 X45MM GAL. C/W NUT	6	
			82A	40441	NUT,HEX M16 THREAD GALANISED STEEL	4	
(			86B	65158	WASHER, FLAT ROUND M16 X 50MM GAL	2	
_			87C 88B	65615 66413	WASHER,FLAT ROUND M12 X 28MM GAL WASHER,FLAT ROUND M16 X 30 X 5MM GAL	8 4	
			#N/A	236098	SWITCHING GROUP,24KV X 1P O/SLUNG NO-AD	3	
			74K	32212	BOLT,HEX HEAD M12 X 50MM GAL. C/W NUT	2	
			2A	323314	BRACE,CROSSARM 40 X 700 X 5MM THICK GAL	4	
Ε	i e						
 F							
j						DIMENSIONS ARE II UNLESS OTHERWIS	
					© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN: 24 167 357 299	DIMENSIONS ARE IN UNLESS OTHERWIS NO PART OF THIS DRAWING M STORED IN A RETRIEVAL SYSOR TRANSMITTED BY ANY ME PRIOR PERMISSION OF TASNET	E STATED  IAY BE REPROD  TEM IN ANY FO  ANS WITHOUT T  WORKS
A I I ON S	AL ISSUE				etworks  TITLE HORIZONTAL LINK STRAIN 11k' MK5 CROSSARM	UNLESS OTHERWIS  NO PART OF THIS DRAWING M STORED IN A RETRIEVAL SYS' OR TRANSMITTED BY ANY ME. PRIOR PERMISSION OF TASNET	E STATED
KALLONS H	IGINAL ISSUE			DRAWN	trading as TasNetworks ABN: 24 167 357 299  TITLE HORIZONTAL LINK STRAIN 11k'	UNLESS OTHERWIS  NO PART OF THIS DRAWING M STORED IN A RETRIEVAL SYS' OR TRANSMITTED BY ANY ME. PRIOR PERMISSION OF TASNET	E STATED  TAY BE REPROD  TEM IN ANY FO  ANS WITHOUT 1  WORKS  SCAL  NT
F G H H SVIIONS	ORIGINAL ISSUE			DRAWN DESIGNED BY CHECKED BY	etworks  ITTLE HORIZONTAL LINK STRAIN 11k' MK5 CROSSARM MATERIALS LIST	UNLESS OTHERWIS  NO PART OF THIS DRAWING M STORED IN A RETRIEVAL SYS' OR TRANSMITTED BY ANY ME. PRIOR PERMISSION OF TASNET	E STATED  IAY BE REPROD  TEM IN ANY FO  ANS WITHOUT 1  WORKS  SCAL

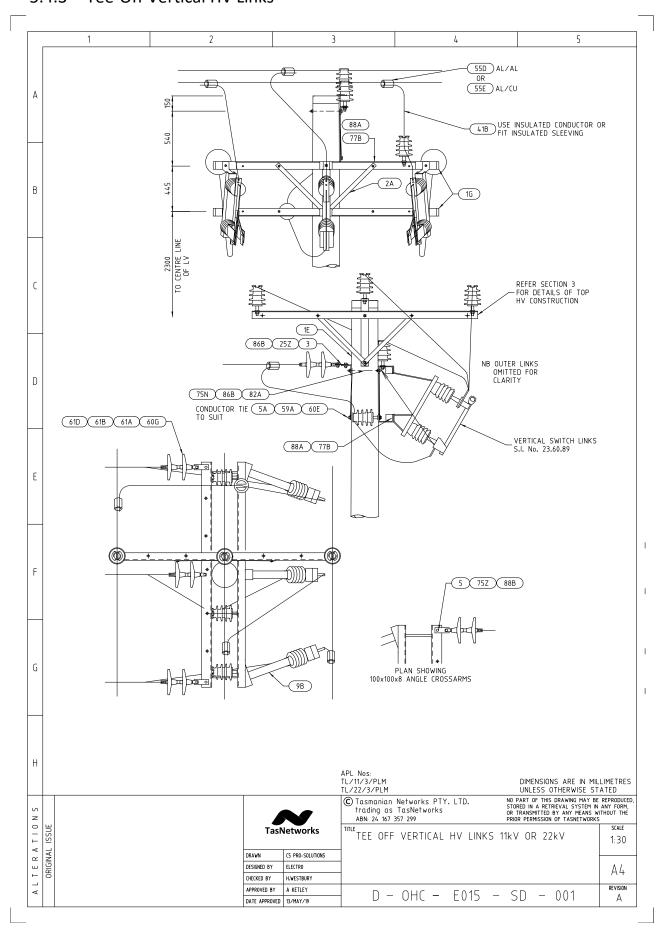
## 5.4.2 Vertical Links in HV Strain Pole



# Vertical Links in HV Strain Pole – Materials List

	1	2			3	4		5
Α								
	Unit Assembly	Store Type		Stock Item	Stock Item Description	on		Quantity
	VL/11/3/PLM	S	3	323310		BLE PIN 65 X 12MM STEEL	-	2
	VL/22/3/PLM		1E 1G	323305	,	00 X 100 X 2210MM GAL		2
В			2A	323309 323314		5 X 75 X 2210MM GAL 40 X 700 X 5MM THICK GA	ı	2 4
			2B	323317	· ·	40 X 5 X 500MM FLAT GAL		2
			41B	157877	·	SUL POLY 6MM X 30M BLF		9
			59A	322721		M DIA X 22KV GAL STEEL		3
			60E	320531	INSULATOR,PIN 22K	V AERO PORCELAIN		3
			60G	321260	INSULATOR,SUSPEN	ISION 146MM DISC D70S		6
C			61A	322056	CLEVIS,ROD-END BA	LL 16MM 70KN MIN-FAIL		6
			61B	322386		ND 16MM 80KN MIN-FAIL	MCI	6
			61D	322090		M S/STEEL 16B-WCLIP		6
	1		74K	32212		X 50MM GAL. C/W NUT		2
			75N 75Z	32288 32261		X 350MM GAL. C/W NUT X 45MM GAL. C/W NUT		3 4
			75Z 77B	33771	,	X 45MM GAL. C/W NUT		8
D			82A	40441	·	AD GALANISED STEEL		3
			86B	65158	WASHER,FLAT ROUN			3
			87C	65615	WASHER,FLAT ROUN	ND M12 X 28MM GAL		10
	1		88B	66413	WASHER,FLAT ROUN	ND M16 X 30 X 5MM GAL		4
			9A	323325	FUSE BACKET, MK25	30 <sup>0</sup>		3
_								
F								
 G								
u								
<u> </u>								
					trading as	Networks PTY. LTD. TasNetworks 357 299	UNLESS OTH  NO PART OF THIS DRA STORED IN A RETRIEV. OR TRANSMITTED BY	ERWISE STATED  WING MAY BE REPRODUL  AL SYSTEM IN ANY FORE  ANY MEANS WITHOUT THE
SNOLFA	AL ISSUE			TasNetwo	rks trading as ABN: 24 167 VERTICA MK5 CRO	TasNetworks 357 299 L (30?) LINKS STRAIN	UNLESS OTH  NO PART OF THIS DRA STORED IN A RETRIEV. OR TRANSMITTED BY PRIOR PERMISSION OF	ERWISE STATED WING MAY BE REPRODUI AL SYSTEM IN ANY FORM ANY MEANS WITHOUT TH TASNETWORKS  SCALE
LTERATIONS T	ORIGINAL ISSUE		CHECK		rks  trading as ABN: 24 167  TITLE VERTICA MK5 CRC MATERIA	TasNetworks 357 299 L (30?) LINKS STRAIN DSSARM	UNLESS OTH  NO PART OF THIS DRA STORED IN A RETRIEV. OR TRANSMITTED BY PRIOR PERMISSION OF	WING MAY BE REPRODUC AL SYSTEM IN ANY FORM ANY MEANS WITHOUT TH TASNETWORKS

## 5.4.3 Tee-Off Vertical HV Links

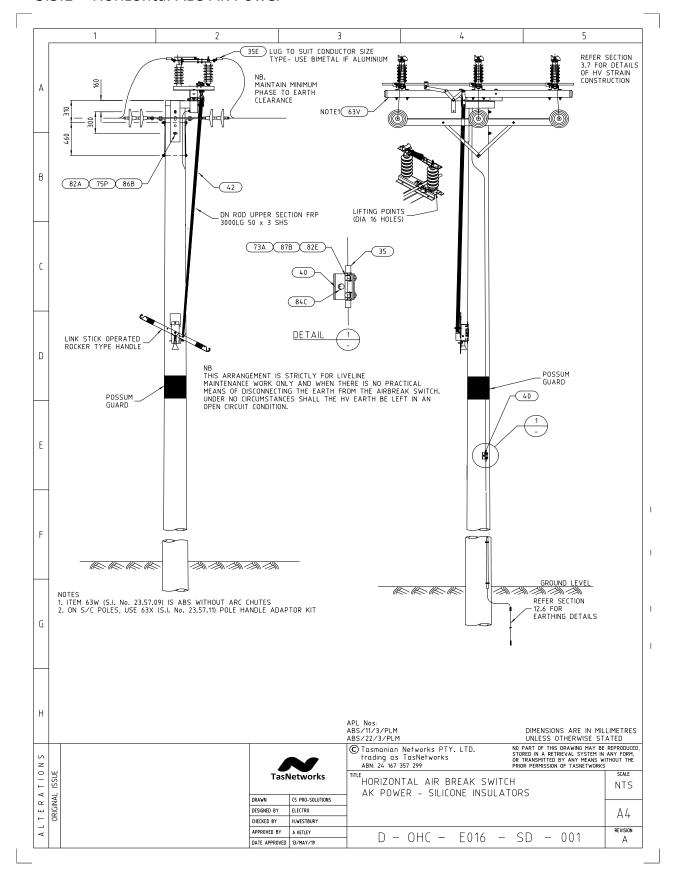


# Tee-Off Vertical HV Links – Materials List

	1		2		3			4		5	
4											
3	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item De	escription			Quantity	,	
	TL/11/3/PLM	S	3			N DOUBLE PIN	65 X 12MM STE	EL		2	
	TL/22/3/PLM		1E	323305		STEEL 100 X 100		L		1	
	excludes top HV construction,		1G 59A	323309		STEEL 75 X 75 X		-1		4	
	bridging and connectors includes Tee-off crossarm		60E	322721 320531		OR 20MM DIA X		EL .		4	
.	monages res on crossami		60G	321260		SUSPENSION 14		)S		3	
			61A	322056		END BALL 16M				3	
			61B	322386		ROD-END 16M				3	
			61D 75N	322090 32288		TY 7.9MM S/STE AD M16 X 350M				2	
1			75N 75Z	32288 32261		AD M16 X 350N AD M16 X 45MN				4	
			77B	33771	1	AD M12 X 35MN				6	
			86B	65158		T ROUND M16				3	
)			87C	65615		T ROUND M12				8	
			88B 9A	66413 323325	WASHER,FLA	T ROUND M16	X 30 X 5MM GAL #N/A	-		3	
			#N/A	236089	SWITCHING C	GROUP,24KVX		W-AD		3	
4			2A	323314	BRACE,CROS	SARM 40 X 700	X 5MM THICK	GAL		4	
			82A 41B	40441 157877		THREAD GALA				12	
-											
=											
ū											
1									UNLES	SIONS ARE IN M S OTHERWISE S	STATED
2							Networks PT` TasNetworks 357 299	r. LTD.	STORED IN A OR TRANSMIT	THIS DRAWING MAY RETRIEVAL SYSTEM TED BY ANY MEANS SION OF TASNETWOR	IN ANY FOR WITHOUT TH
-	AL ISSUE				tworks	TITLE	VERTICAL	HV LINKS			SCALE NT:
۷	אר איני איני איני איני איני איני איני אי		İ	DESIGNED BY EL	LECTRO						Α4
	>		- +		.WESTBURY KETLEY						REVISIO

## 5.5 Air Break Switches

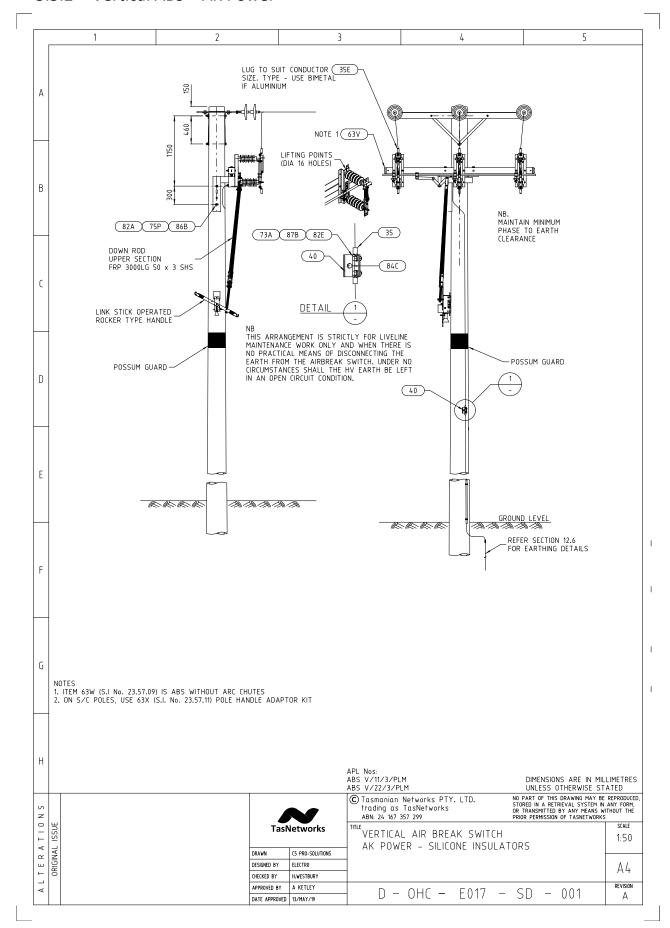
## 5.5.1 Horizontal ABS AK Power



# Horizontal ABS AK Power – Materials List

	1		2			3		4		5	
							•		<u> </u>		
4											
	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item D	escription			Quai	ntity	
	ABS/11/3/PLM	S	63V	235708	SWITCHING	GROUP,24KV X 3F				1	
3	ABS/22/3/PLM excludes HV strain construction		75P 86B	32289 65158	_	EAD M16 X 375MM AT ROUND M16 X				2	
ر	lugs and earthing		002	03130	WASHER,FE	AT NOOND WITO X	JOIVINI CAL				
כ											
_											
E											
F											
G											
Н											
									LINI ESS	IONS ARE IN M OTHERWISE S	TATED
						© Tasmanian trading as	Networks PTY	. LTD.	NO PART OF 1	HIS DRAWING MAY	BE REPRODUC
S					V	trading as ABN: 24 167	TasNetworks 357 299		OR TRANSMITT PRIOR PERMISS	HIS DRAWING MAY RETRIEVAL SYSTEM ED BY ANY MEANS HON OF TASNETWOR	WITHOUT THE KS
	SSUE			TasN	letworks	TITLE	TAL AIR B	REAK SWI			SCALE
– ∀	ORIGINAL ISSUE			DRAWN	C5 PRO-SOLUTIONS	→ AK POW	ER - SILICO	ON INSULA	TORS		NTS
L K	SIGIN			DESIGNED BY	ELECTRO	- MATERIA	LS LIST				Α4
	0			CHECKED BY  APPROVED BY	H.WESTBURY A KETLEY						REVISION
A A									- SD -		

#### 5.5.2 Vertical ABS – AK Power

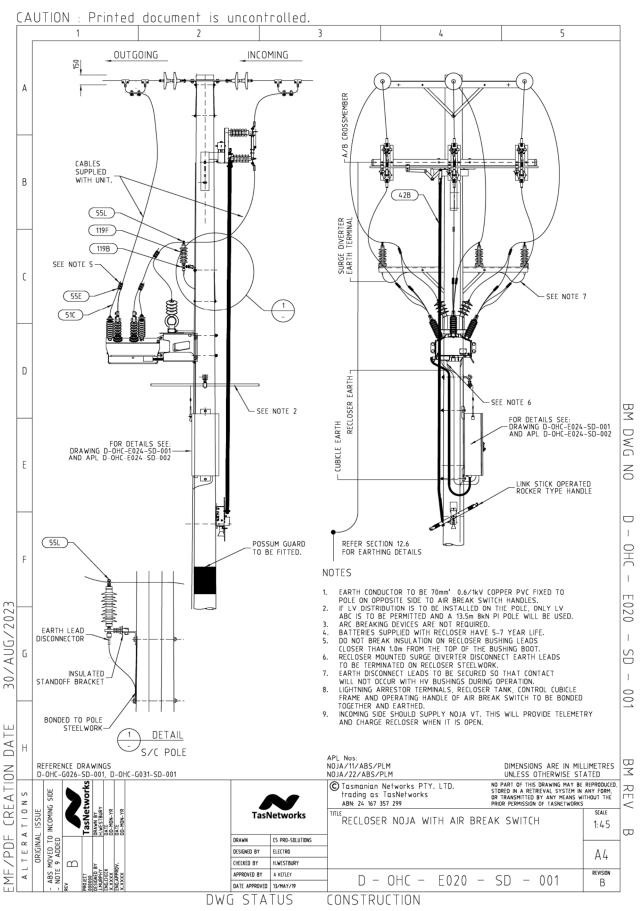


# Vertical ABS – AK Power – Materials List

	1	2		3			4		5	
Д										
		I.a			la					
	Unit Assembly ABSV/11/3/PLM	Store Type	Item Ref 63V	235708		Description G GROUP,24	KV X 3D HOI	PVEBT CM	/-AD	
	ABSV/22/3/PLM		75P	32289		HEAD M16 X			I-AD	
	excludes HV strain construction	l 1,	86B	65158		LAT ROUND				
В	lugs and earthing									
	_									
C										
,										
	-									
D										
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. 1								DIMENCI	ONS ARE IN MI	LLIMETRE
				П	(C) Teameria	Networks PTY	I TD	UNLESS	OTHERWISE S	TATED
S N					trading as ABN: 24 167	: TasNetworks	. LID.	STORED IN A R OR TRANSMITTE PRIOR PERMISSI	HIS DRAWING MAY B ETRIEVAL SYSTEM H D BY ANY MEANS Y ON OF TASNETWORK	N ANY FORM WITHOUT THE
T   0			TasNe	etworks	TITLE	NTAL AIR BE	REAK SWIT		or more work	SCALE
ΑŢ	IAL IS		DRAWN (	5 PRO-SOLUTIONS	AK POW	/ER – SILICO	NE INSULA	TORS		NTS
l E R	ORIGINAL		DESIGNED BY E	LECTRO	MATERIA	ALS LIST				Α4
ALT				LWESTBURY A KETLEY		0116	F047	<u> </u>	000	REVISION
7			DATE APPROVED 2		) -	- OHC -	F017 -	· SI) -	002	Α

#### 5.6 Reclosers

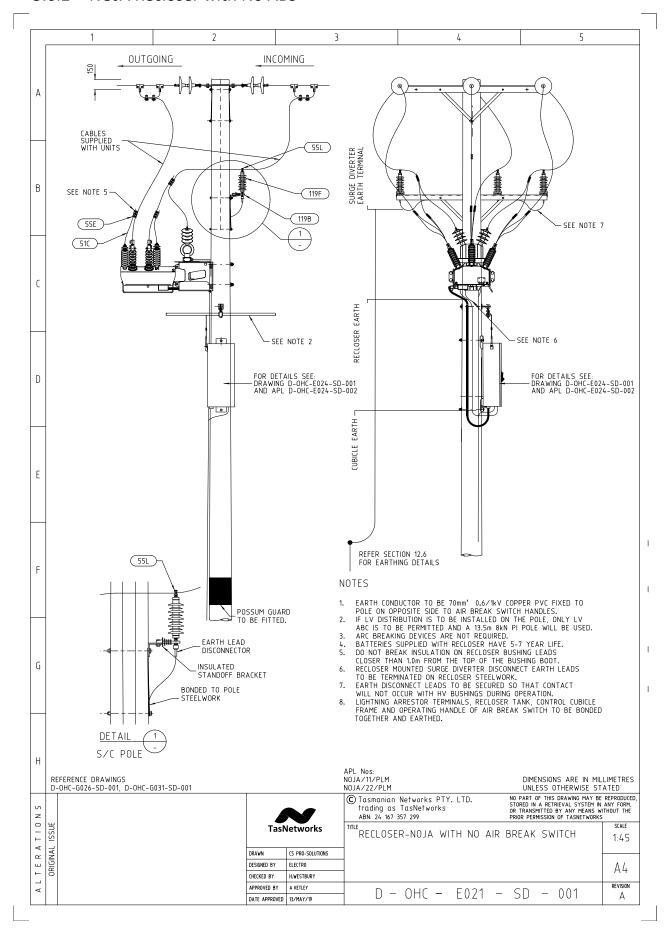
#### 5.6.1 NOJA Recloser with Air Break Switch



# NOJA Recloser with ABS – Materials List

	1	2			3	4	5	
	Unit Assembly	Store Type Item Ref	Stock Item	Stock Item Description		Quantity		
	NOJA/11/3ABS/PLM	S 3	323310	PLATE,STRAIN DOUBLE P	IN 65 X 12MM STEEL	2	I	
		119F 1D	225772	SURGE DIVERTER,OD 10k		6	1	
A		1G	323304 323309	CROSSARM,STEEL 75 X 75 CROSSARM,STEEL 75 X 75		1 2	İ	
		35E	141363	LUG,CRIMP TERMINAL M1:		13	İ	
		35P	141299	LUG,BOLTED TERMINAL M		3	İ	
		36C	141304	LUG,BOLTED TERMINAL M	112 X 50-70MM2 CU	4	I	
		55E	144955	CLAMP,PG OH CONNECT		3	I	
		55H 55L	146856 225798	CONNECTOR, CLAMP C SF CLAMP, T-TYPE 75 X 120Min		8 3	I	
		60G	321260	INSULATOR, SUSPENSION		12	İ	
		60H	320735	INSULATOR, STANDOFF 24		1	İ	
3		61A	322056	CLEVIS,ROD-END BALL 16	6MM 70KN MIN-FAIL	6	İ	
		61B	322386	CONNECTOR,ROD-END 1		6	I	
		61D 63V	322090 235708	CLIP,SECURITY 7.9MM S/S SWITCHING GROUP,24KV		12	İ	
		63W	235709	SWITCHING GROUP,24KV		1	I	
		75M	32287	BOLT,HEX HEAD M16 X 32		7	I	
		75P	32289	BOLT,HEX HEAD M16 X 37	5MM GAL. C/W NUT	4	I	
		75R	32291	BOLT,HEX HEAD M16 X 42	5MM GAL. C/W NUT	2	I	
		75Z	32261	BOLT,HEX HEAD M16 X 45		4	Ì	
c	1	76C 77B	32340 33771	BOLT,HEX HEAD M20 X 40		4	Í	
		82B	33771 40442	BOLT, HEX HEAD M12 X 35 NUT, HEX M20 THREAD GA		18	Ì	
	1	86B	65158	WASHER,FLAT ROUND M1		13	Í	
		86C	65159	WASHER,FLAT ROUND M2		4	Ì	
_		87B	65614	WASHER,FLAT ROUND M1	0 X 21MM GAL	6	Ì	
		88A	66412	WASHER,FLAT ROUND M1		6	Ì	
			32183	BOLT,HEX HEAD M10 X 55		6	Ì	
			146859 152490	CONNECTOR, CLAMP LP S LUG, CRIMP 50MM2 X M12		1 2	Ì	
			236088	SWITCHING GROUP,24KV		3	Ì	
١,			990809	RECLOSER,AUTO 27KV SV		1	İ	
			152482	LUG,CRIMP 185MM2 X M12	PHOLE BI-METAL	6	İ	
		2A	323314	BRACE,CROSSARM 40 X7	00 X 5MM THICK GAL	4	I	
							I	
	NOJA/22/3ABS/PLM	S 3	323310 225773	PLATE, STRAIN DOUBLE PI SURGE DIVERTER, OD 10k		6	I	
		1D	323304	CROSSARM,STEEL 75 X 75		1	I	
		1G	323309	CROSSARM,STEEL 75 X 75		2	I	
		35E	141363	LUG,CRIMP TERMINAL M1:	2 X 70MM2 COPPER	13	I	
E		35P	141299	LUG,BOLTED TERMINAL M		3	I	
		36C	141304	LUG,BOLTED TERMINAL M		4	I	
		55E 55H	144955 146856	CLAMP,PG OH CONNECT: CONNECTOR,CLAMP C SE		3 8	I	
		55L	225798	CLAMP,T-TYPE 75 X 120MM		3	I	
		60G	321260	INSULATOR, SUSPENSION		12	I	
		60H	320735	INSULATOR, STANDOFF 24	KV 305MM POLYMERIC	1	I	
		61A	322056	CLEVIS,ROD-END BALL 16		6	I	
		61B	322386	CONNECTOR, ROD-END 1		6	I	
=		61D 63V	322090 235708	CLIP,SECURITY 7.9MM S/S SWITCHING GROUP,24KV		12	I	
		63W	235709	SWITCHING GROUP,24KV		1	I	
	1	75M	32287	BOLT,HEX HEAD M16 X 32		7	Í	
		75P	32289	BOLT,HEX HEAD M16 X 37		4	Ì	
_		75R	32291	BOLT,HEX HEAD M16 X 42		2	Ì	
	1	75Z	32261	BOLT,HEX HEAD M16 X 45		4	Í	
		76C 77B	32340 33771	BOLT, HEX HEAD M20 X 400 BOLT, HEX HEAD M12 X 350		18	Ì	
	1	82B	40442	NUT,HEX M20 THREAD GA		4	Í	
<u>.</u>		86B	65158	WASHER,FLAT ROUND M1		13	Ì	
-		86C	65159	WASHER,FLAT ROUND M2		4	Ì	
		87B	65614	WASHER,FLAT ROUND M1		6	Ì	
		88A	66412	WASHER, FLAT ROUND M1		6	Ì	
			32183 146859	BOLT, HEX HEAD M10 X 551 CONNECTOR, CLAMP LP S		6	Ì	
			152490	LUG,CRIMP 50MM2 X M12		2	Ì	
	1		236088	SWITCHING GROUP,24KV		3	Í	
			990808	RECLOSER,AUTO 22KV SV		1	Ì	
u I	1		152482	LUG,CRIMP 185MM2 X M12		6	Í	
1		2A	323314	BRACE,CROSSARM 40 X7	UU A 5MM THICK GAL	4	,	
							DIMENSIONS ARE IN 1	
					10-		UNLESS OTHERWISE	
0				_	C Tasmanian Networks	PTY. LTD.	NO PART OF THIS DRAWING MAY STORED IN A RETRIEVAL SYSTEM	BE REPRODUC I IN ANY FORM
2					trading as TasNetwor ABN: 24 167 357 299	1.02	STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED BY ANY MEANS PRIOR PERMISSION OF TASNETWO	; WITHOUT THE RKS
				TasNetworks	TITLE			SCALE
I I U				. asiactworks	RECLOSER - NO.		≀EAK SWITCH	NTS
			20.00	N	MATERIALS LIST			
Z N			DRAW		-			
ORIGINAL			_	NED BY ELECTRO  KED BY H.WESTBURY	-			A4
_			_	CED BY H.WESTBURY  OVED BY A KETLEY				REVISION
∢			_		$\neg$ D $\neg$ DHC $\cdot$	- E020 -	SD - 002	A
			DATE	APPROVED 13/MAY/19		L U Z U	JD 002	

#### 5.6.2 NOJA Recloser with No ABS



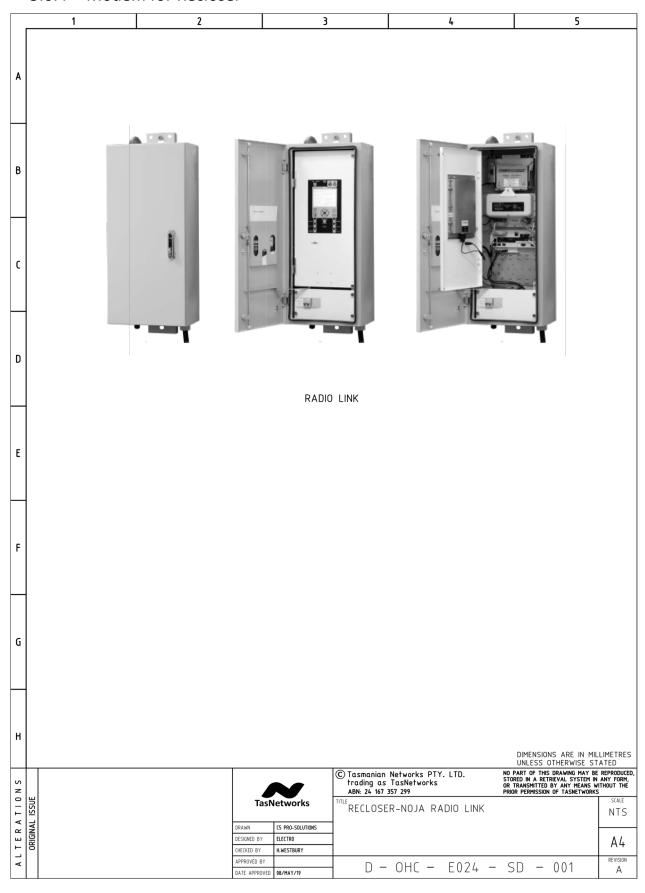
# NOJA Recloser with No ABS – Materials List

-	1		2		3			4		5
	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Descri	ption			Quantity	
ΑΙ	NOJA/11/PLM	S	3		PLATE,STRAIN DC				2	
^			119F		SURGE DIVERTER				6	
			1D		CROSSARM,STEE				1	
			1E		CROSSARM,STEE				2	
			35E	141363	LUG,CRIMP TERM				13	
			35P 36C		LUG,BOLTED TER LUG.BOLTED TER				3 4	
			55E		CLAMP,PG OH CO				6	
			55H		CONNECTOR,CLA				8	
в			55L		CLAMP,T-TYPE 75				3	
ا تا			60G		INSULATOR,SUSP				6	
			60H		INSULATOR,STAN				1	
			61A		CLEVIS,ROD-END				6	
			61B	322386	CONNECTOR,ROI	D-END 16MM 80Ki	N MIN-FAIL MCI		6	
			61D	322090	CLIP,SECURITY 7.	9MM S/STEEL 16E	3-WCLIP		12	
			75M	32287	BOLT, HEX HEAD N	/116 X 325MM GAL.	C/W NUT		7	
			75P	32289	BOLT, HEX HEAD N	/116 X 375MM GAL.	C/W NUT		4	
_			75R	32291	BOLT, HEX HEAD N	/116 X 425MM GAL.	C/W NUT		2	
١			75Z		BOLT, HEX HEAD N				4	
			76C		BOLT,HEX HEAD N				4	
			77B		BOLT,HEX HEAD N				18	
			82B		NUT,HEX M20 THE				4	
			86B 86C	65158	WASHER, FLAT RO				13	
			86C 87B		WASHER, FLAT RC WASHER, FLAT RC				6	
			88A		WASHER,FLAT RC				6	
					BOLT, HEX HEAD N				6	
)					CONNECTOR,CLA				1	
				152490	LUG,CRIMP 50MM				2	
					RECLOSER,AUTO				1	
			2A		BRACE,CROSSAR				6	
_	NOJA/22/PLM	S	3		PLATE,STRAIN DC				2	
			119G	225773	SURGE DIVERTER	R,OD 10KA X 22KV	,		6	
			1D	323304	CROSSARM,STEE	L 75 X 75 X 2210N	IM MK4 GAL		1	
			1E	323305	CROSSARM,STEE	L 100 X 100 X 221	0MM GAL		2	
E			35E	141363	LUG,CRIMP TERM	INAL M12 X 70MM	2 COPPER		13	
			35P	141299	LUG,BOLTED TER	MINAL M12 X 16M	M2 CU		3	
			36C	141304	LUG,BOLTED TER	MINAL M12 X 50-7	0MM2 CU		4	
			55E	144955	CLAMP,PG OH CO				6	
			55H		CONNECTOR,CLA				8	
			55L	225798	CLAMP,T-TYPE 75				3	
			60G		INSULATOR,SUSP				12	
			60H 61A		INSULATOR, STAN				1	
F			61B		CLEVIS,ROD-END CONNECTOR,ROD				6	
			61D		CLIP,SECURITY 7.				12	
			75M		BOLT, HEX HEAD N				7	
			75P		BOLT, HEX HEAD N				4	
			75R		BOLT, HEX HEAD N				2	
			75Z	32261	BOLT,HEXHEAD N				4	
			76C		BOLT,HEXHEAD N				4	
			77B		BOLT,HEX HEAD N				18	
5			82B		NUT,HEX M20 THE				4	
۱ ا			86B		WASHER,FLAT RC				13	
			86C	65159	WASHER,FLAT RC	OUND M20 X 60MM	1 GAL		4	
			87B	65614	WASHER,FLAT RO	OUND M10 X21MM	1 GAL		6	
			88A		WASHER,FLAT RC				6	
					BOLT,HEX HEAD N				6	
				146859	CONNECTOR,CLA				1	
				152490	LUG,CRIMP 50MM				2	
ار				990808	RECLOSER,AUTO				1	
Н			2A	323314	BRACE,CROSSAR	m 40 X 700 X 5MM	THICK GAL		6	
SNO	SUE			Tas	Networks	trading as ABN: 24 167			UNLESS OTHE NO PART OF THIS DRA STORED IN A RETRIEVA OR TRANSMITTED BY A PRIOR PERMISSION OF 1	L SYSTEM IN ANY FORI NY MEANS WITHOUT TH ASNETWORKS
T A A	ORIGINAL ISSUE			DRAWN DESIGNED BY	CS PRO-SOLUTIONS ELECTRO		ER - NOJA ALS LIST	WIIH NU A	IR BREAK SWI	INT
-	AO .			CHECKED BY	H.WESTBURY	1				A4
A L				APPROVED BY	A KETLEY		OLIC	E024	- SD - 0(	REVISION

## 5.6.3 NOJA Recloser – Retrofit Materials

	_	1		2		3 4	5
Α		Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity
		NOJA/11/RETRO/PLM	S	119F	225772	Lightning Arrester (NOT L/L TESTED) ABB 11kV 10kA c/w bird cap & M12 studs	1
				35E	141363	Lug Crimp 70mm <sup>2</sup> tinned copper	13
				35P	141299	Lug Bolted 16mm <sup>2</sup> 12 hole	3
				55E 55L	144955	Parallel groove clamp (7.5-17.5mm Bi metal)	6
_				60H	225798 320735	Tee Clamp AL TCDA19 Insulator Raychem standoff 24kV set of 3	1
В				75P	32289	Bolt Hex M16 X 375	4
				75R	32291	Bolt Hex M16 X425	2
				76C	32340	Bolt Hex M20 X400	4
				82B	40442	Nut M20	4
				86B 86C	65158 65159	Washer Els 16 Washer Els 20	6
				88A	66412	Washer Tower 12	6
C					146859	Split Bolt Clamp (for 70-120sq-mm Earth Leads)	1
					152490	Lug Crimp Bimetal 50mm <sup>2</sup> M12	2
					990809	Recloser/Sectionaliser/LBS 11kV NOJA cw Cont. Cubicle, VTs and Leads etc	1
	1				152482	Lug Crimp Bimetal 185mm <sup>2</sup> M12	6
		NO IA/OO/DETDO/D:		1100	005775	Highering American (MOTH) TENTED) ADD COMMON (MICHAEL COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMMON COMM	
		NOJA/22/RETRO/PLM	S	119G 35E	225773 141363	Lightning Arrester (NOT L/L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs  Lug Crimp 70mm² tinned copper	6 13
D				35P	141299	Lug Bolted 16mm <sup>2</sup> 12 hole	3
				55E	144955	Parallel groove clamp (7.5-17.5mm Bi metal)	6
				55L	225798	Tee Clamp AL TCDA19	3
	1			60H	320735	Insulator Raychem standoff 24kV set of 3	1
E				75P	32289	Bolt Hex M16 X 375	4
				75R 76C	32291	Bolt Hex M16 X 425 Bolt Hex M20 X 400	4
				82B	32340 40442	Nut M20	4
				86B	65158	Washer Els 16	6
				86C	65159	Washer Els 20	4
				88A	66412	Washer Tower 12	6
					146859	Split Bolt Clamp (for 70-120sq-mm Earth Leads)	1
					152490	Lug Crimp Bimetal 50mm <sup>2</sup> M12	2
F					990808 152482	Recloser/Sectionaliser/LBS 22kV NOJA cw Cont. Cubicle, VTs and Leads etc  Lug Crimp Bimetal 185mm² M12	6
г					132402	Lug Omnip Dimetal 100mm W12	0
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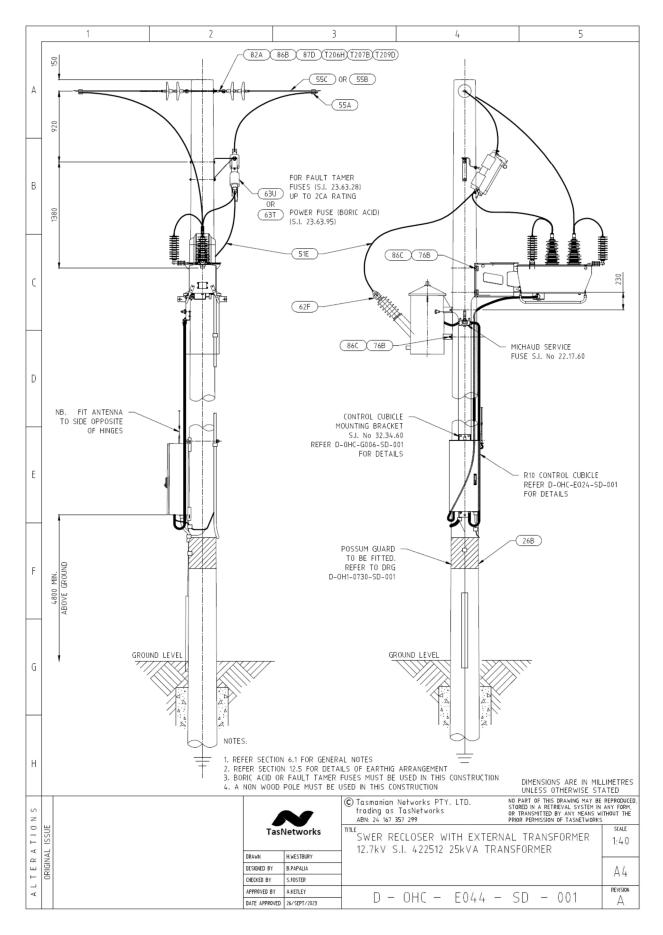
## 5.6.4 Modem for Recloser



## Modem for Recloser – Materials List

				3		4	5	
_								
	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item	Description		Quantity
L	MODEM/NOJA/OPTUS	S		152630		lex Crgtd PVC 20mm x 50	m MD Gry	10
				133155	PLUG,TNC	Crimp Connector t/s RG5	8U Cable	2
				133157	BRACKET,A	ngle 1.5mm L-Shaped M	B403SS	1
				133158	1	DR,SMA Male Plug RG58 (		2
				133159	PROTECTIO	ON UNIT,Coaxial Cable To	CM Fm/FM	1
				133184	MODEM,GE	Orbit, ECR Optus		1
				133187	ANTENNA,4	G,LTE, Collinear, 5dBi		1
				133174	CABLE,Ethe	rnet CAT5E 1m Blue Pate	ch Lead	1
				231320	SWITCH,lsd	lation 20A x 250V x 2P LV	OD .	1
	MODEM/NOJA/TELSTRA	S		152630	CONDUIT,F	lex Crgtd PVC 20mm x 50	m MD Gry	10
					<b>.</b>	Crimp Connector t/s RG5		2
				133157	BRACKET,A	ngle 1.5mm L-Shaped M	B403SS	1
				133158	CONNECTO	DR,SMA Male Plug RG58 (	Crimp	2
				133159	PROTECTIO	ON UNIT,Coaxial Cable T	CM Fm/FM	1
				133186	MODEM,GE	Orbit, ECR Telstra		1
				133187	ANTENNA,4	G,LTE, Collinear, 5dBi		1
				133174	· ·	rnet CAT5E 1m Blue Pato	ch Lead	1
				231320	SWITCH,Isc	lation 20A x 250V x 2P LV	OD .	1
					,		-	
	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item	Description		Quantity
	MODEM/NULEC/OPTUS	S		133157	BRACKET,A	ngle 1.5mm L-Shaped	MB403SS	1
				133174	CABLE, Ethe	ernet CAT5E 1m Blue P	atch Lead	1
				133181	CABLE, pov	ver, Cybertec 1000 fus	ed	1
				133184	MODEM,GI	Orbit, ECR Optus		1
				133187	ANTENNA,	4G,LTE, Collinear, 5dBi		1
					CONDUIT			
				152630	CONDOIL	lex Crgtd PVC 20mm x	50m MD Gry	10
	MODEM/NULEC/TELSTR	S				Ingle 1.5mm L-Shaped		10
-		S			BRACKET,A	angle 1.5mm L-Shaped	MB403SS	
		S		133157	BRACKET,A		MB403SS atch Lead	1
		S		133157 133174 133181	BRACKET,A CABLE,Ethe CABLE, pov	ingle 1.5mm L-Shaped ernet CAT5E 1m Blue P	MB403SS atch Lead	1
		S		133157 133174 133181	BRACKET,A CABLE,Ethe CABLE, pov MODEM,GI	angle 1.5mm L-Shaped ernet CAT5E 1m Blue P ver, Cybertec 1000 fus	MB403SS atch Lead ed	1 1 1

### 5.6.5 NOJA SWER Recloser with Transformer



## NOJA SWER Recloser with Transformer - Materials List

	1		2		3 4	5
					, , , , , , , , , , , , , , , , , , ,	
		Store Type	Item Ref	Stock Item	Stock Item Description	Quantity
А	Noja/12.7/Recloser	S	6A	323315	Insulator Bracket Mk15	1
			51E	103217	Cable, 1Core x 16mm2 x 7/1.70 X 0.6 V75	3
$\dashv$			60G	321260	Insulator Disc Porcelain 16mm 70Kn 146mm	4
			61A	322056	Ball Clevis & Pin 16mm	2
			61B	322386	Socket Termination 16mm	2
3			75N	32287	Bolt Hex M16 x 350 - Thread Length 57mm	2
			82A	40441	Nut Hex M16	5
			86B	65158	Washer ELS M16	3
4			87D	65616	Washer NS M16	3
			T206H	325636	M16 EYE BOLT 400 - Thread Length 75mm	1
			T207B	325740	M16 EYE NUT	1
			T209D	66807	M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagional 70.7mm.	2
			63T	236395	KIT,Fuse Mounting 200A x 25kV 150kV BIL	1
			35P	141299	Lug Bolted 16mm2 12 hole	4
			36C	141304	Q LUG bolted 50 70mm2 tinned copper	4
			41B	157877	Sleeving 6 ID 2 Wall	2
			76B	32338	Bolt Hex M20 x 350	4
			82B	40442	Nut M20	8
			86C	65159	Washer Els 20	8
				990910	Recloser, Noja SWER, Auto, Single Phase	1
				221760	FUSEHOLDER,B&C 100A/480V 57 x 22 Ferrule	1
			29K		BRACKET,House Service Fuse 32 x 8mm M-Ph	1
Ε			62P	144020	Cover Insulator Protect 22kV x 13mm Poly	1
			62P	144020	Cover insulator Protect 22kV x 13mm Poly	1
			62P	144020	Cover insulator Protect 22kV x 13mm Poly	1
			62P	144020	Cover insulator Protect 22kV x 13mm Poly	1
			62P	144020	IMIG.	ENSIONS ARE IN MILLIME ESS OTHERWISE STATED
:			62P	144020	DIM UNL	ENSIONS ARE IN MILLIME ESS OTHERWISE STATED OF THIS OPENING MAY BE PERF 14. DETRIFUEL SYSTEM IN SECTION
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## 5.7 Sectionalisers

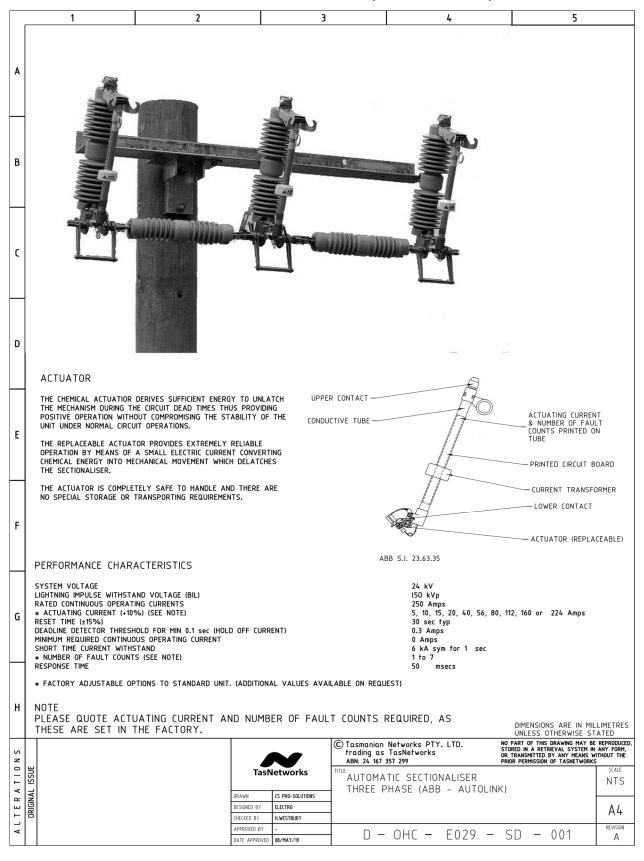
## 5.7.1 Automatic Sectionaliser Notes

	1	2	3	4	5
A	DESCRIPTION OF AUTOMATIC  THE AUTOMATIC SECTIONALISER IS SIMIL  ITS MOUNT, WHEREAS A CHEMICAL ACTU  FROM A LOGIC CIRCUIT, CONVERTS CHEM  THE ELECTRONIC LOGIC IS CONTAINED ON	AR TO AN EDO FUSE IN JATOR RELEASES THE S ICAL ENERGY INTO MECH	SECTIONALISER LINK. THE ACTUATO HANICAL MOVEMENT WHICH DELATO	OR (REPLACEABLE) WHICH IS ACTIVA THES THE SECTIONALISER.	TED BY A SMALL CURRENT
В	TO COUNT SUBSEQUENT PMR OPENINGS. THE NUMBER OF TIMES THE SECTIONALIS	THE LINE CURRENT EXC RECLOSER) THEN OPENS IO LONGER APPARENT) FAULT PERSISTS THE L SER WILL REGISTER A F	S, THIS INCIDENT IS STORED BY T THE SECTIONALISER WILL RETURN INE CURRENT WILL CONTINUE TO E AULT WITHOUT DELATCHING IS DE	HE LOGIC CIRCUIT AS ONE COUNT. W TO ITS NORMAL STATE AFTER THE EXCEED ITS "ACTUATING CURRENT"	/HEN THE PMR RECLOSES E RESET TIME WHICH IS AND THE LOGIC WILL PROCEED
С	ABOVE. THE NUMBER OF FAULT COUNTS WHEN THE SET NUMBER OF COUNTS HA: MECHANISM. IT TAKES A MINIMUM OF 15 THE THREE PHASE SECTIONALISER PROV A FAULT CONDITION. THE DELATCHED SI LINKS TO DELATCH. IT TAKES 680ms FO THE UPSTREAM PMR.  SELECTION AND APPLICATION SELECTION	S BEEN REACHED, THE L Dms FROM THE LAST CO IDES THREE PHASE CIRC ICTIONALISER AUTOMATI R THE INTERPHASE TRI	LOGIC CIRCUIT SENDS A SIGNAL TO JUNT ON THE SECTIONALISER, FOR CUIT ISOLATION IN THE EVENT OF ICALLY OPERATES AN INTERPHASE P MECHANISM TO OPERATE AND D	THE DELATCHING MECHANISM TO O ONE OR TWO OF THE SECTIONALISE TRIP MECHANISM WHICH CAUSES T	PERATE. R LINKS DELATCHING UNDER HE REMAINING SECTIONALISER
D	TASNETWORKS WILL STOCK SECTIONALIS CARRY CONTINUOUS CURRENT OF UP TO AS SECTIONALISERS WILL BE USED MAIN HOWEVER, CAREFUL PLANNING IS IMPOR	250A. ILY ON SPUR LINES, TH FANT IN SELECTING THE ONSIDERED WHEN SELE	E CONTINUOUS CURRENT CAPACITY ACTUATING CURRENT, AS IT IS F ECTING THE ACTUATING CURRENT:	' IS NOT A CONSTRAINING CRITERION ACTORY FIXED.	N.
	INSTALLED. CONSIDERING, OVERLOAD  2) THE ACTUATING CURRENT SHOULD E ASSOCIATED PMR ON THE PARTICUL (THE MINIMUM FAULT CURRENT CALC	DING, LOAD GROWTH AN BE LESS THAN THE MINI AR SPUR PROTECTED	D A REASONABLE MARGIN, 1.6 TIM IMUM AVAILABLE FAULT CURRENT BY THE SECTIONALISER.	IES THE CONTINUOUS CURRENT IS A AT THE END OF THE ZONE OF PRO	N ACCEPTABLE ESTIMATION.
E	IN THAT PARTICULAR CYCLE OF THI SHORTER THAN 25 SECS TO ENSUR	TIONALISERS, THE ASSO E PMR, DURING WHICH T E THAT THE SECTIONAL	CIATED PMR SHOULD HAVE A RE TIME THE SECTIONALISER IS SET T	CLOSING INTERVAL (DEAD O DELATCH. THE RECLOSING INTERV	
F	CONTINUED ON DRAWING D-OHC-E029-SD	-002			
G					
н					DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED
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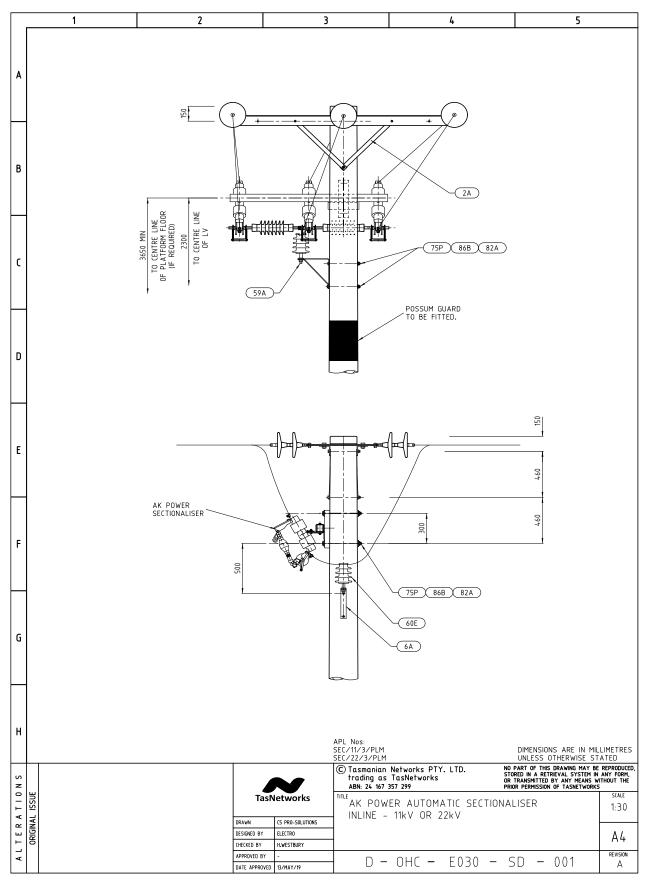
## **Automatic Sectionaliser Notes**

	1	2	3			4	5	
	CONTINUED FROM DRAWING	i D-ОНС-E028-SD-001						
A	MECHANISM WILL ALSO BE THE SECTIONALISER, IF TH	SER WILL BE ACTUATED WHEN A C ACTIVATED TO OPEN AND RECLOS IE OVERCURRENT PERSISTS, THE SE O THE MAIN FEEDER VIA THE PMR.	E AS PROGRAMMED.	IN CASE OF A	2-FAST/ 2-SLOW	RECLOSE SETTING	AND 3-COUNT SETTING	5 ON
	TO BE PUT BACK ON LINE	LINKS (SWUNG OPEN) WILL PROVIDI AFTER REPLACING SPENT ACTUAT REQUIRED. ACTUATORS (STANDARD	OR/S AND CLEARING	THE FAULT. 0	THER THAN REPLA	ACING THE APPROF		ADY
В	COORDINATION WITH THE L SUITABLE THREE PHASE S PERMITTED. WHEN THE TO SHOULD INSERT THE THRE	LISER IS DESIGNED TO OPEN AND C JPSTREAM PMR. TO ENSURE CLOSIN WITCHING ARRANGEMENTS FOR SPL TAL CONNECTED LOAD ON THE SPL E LINKS IN SUCCESSION AS QUICKL' SS, IN OPERATING MANUAL FOR POL	G ON NO LOAD, WHE RS. HOWEVER, CONS R DOES NOT EXCEED Y AS POSSIBLE IN A	N SELECTING SI IDERING LOCAL ) 1000 kVA AT . SAFE MANNER	ECTIONALISER LOC CONDITIONS, INSEF 22kV OR 600kVA	ATIONS, DESIGNER RTING THE THREE AT 11kV. IN SUCH	S WILL HAVE TO PROVI LINKS UNDER LOAD MA' I CASE THE OPERATOR	
	INSTALLATION OF A	AUTOMATIC SECTIONALISER	?					
С	FOR DETAILS OF SECTIONA SECTIONALISERS RESPECTI	ALISER INSTALLATION, REFER TO D VELY.	RAWINGS D-OHC-E03	0-SD-001 AND	D-0HC-E035-SD-0	01 FOR THE THREE	E PHASE AND SINGLE P	HASE
	CORRECT ACTUATO	R						
	ACTUATORS THAT MATCH PHYSICALLY BUT WILL NO	THE BRAND OF SECTIONALISER MU T OPERATE CORRECTLY.	ST ALWAYS BE USE	D. ACTUATORS	INTENDED FOR OT	HER MAKES OF SE	ECTIONALISERS MAY FIT	
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E								
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## 5.7.2 Automatic Sectionaliser 3 Phase (ABB – Autolink)



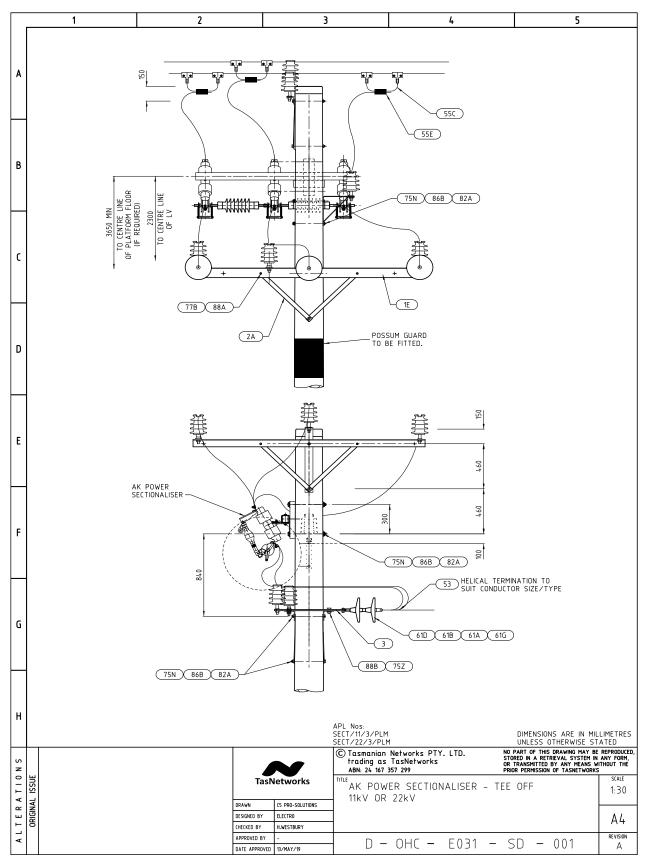
### 5.7.3 AK Power Automatic Sectionaliser – In-line



## AK Power Automatic Sectionaliser – In-line – Materials List

	1	2			3	4	5	
Γ	· ·	<u> </u>	<u> </u>			<u> </u>		
			1					
A		Unit Assembly				Stock Item Description	Quantity	
		SEC/11/3/PLM SEC/22/3/PLM	S	59A 60E	322721 320531	Pin,Insulator 22kV Insulator Pin 22/450	1	
		SEC/22/3/FLIVI		6A	323315	Insulator Bracket Mk15	1	
		excludes HV strain construction		75N	32288	Bolt Hex M16 X 350	4	
		11kV or 22kV		75P	32289	Bolt Hex M16 X 375	4	
				75Z	32261	Bolt Hex M16 X 45	4	
В				77B	33771	Bolt Tower M12 X35	4	
				82A	40441	Nut M16	4	
				86B	65158	Washer Els 16	2	
				88A	66412	Washer Tower 12	4	
				88B	66413	Washer Tower 16	4	
					235714 236335	Sectionaliser 3-ph 24kV (without Tubes) Actuator to suit ABB Sectionaliser	3	
C					230333	Actuator to suit ABB Sectionaliser	-	
		<u> </u>	<u> </u>	l	<u> </u>			
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	8		CHECKED BY	H.WESTBURY				A4
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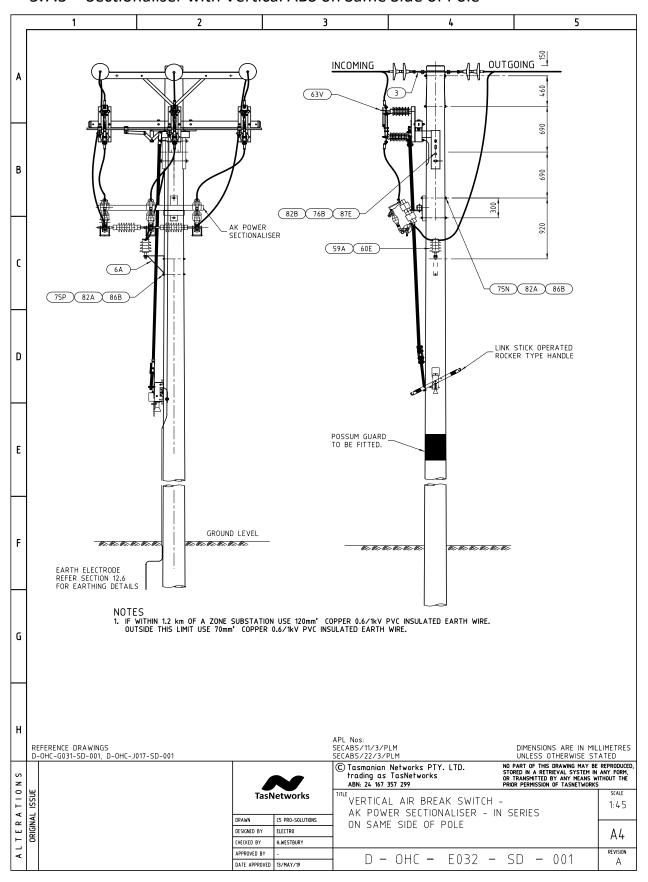
### 5.7.4 AK Power Automatic Sectionaliser – Tee-Off



## AK Power Automatic Sectionaliser – Tee-Off – Materials List

	1	2	<u> </u>		3 4	5
ſ						
A	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity
	SECT/11/3/PLM	S	3	323310	Strain Plate Mk10	2
	SECT/22/3/PLM		1E	323305	Crossarm Mk5	2
-	includes tee-off xarm		55C 55E	146618 144955	Dee Clamp for 7.5 to 16.25mm Dia AL ACSR/GZ (19/2.00 Cu Tail) - 355mm Long Parallel groove clamp (7.5-17.5mm Bi metal)	3
	excludes top HV construction		59A	322721	Pin,Insulator 22kV	1
	11kV or 22kV		60E	320531	Insulator Pin 22/450	1
3			60G 61A	321260 322056	Insulator Disc Porcelain 16mm 70kN 146mm  Ball Clevis & Pin 16mm	6 3
			61B	322386	Socket Termination 16mm	3
			61D	322090	Kink Pin 16mm	18
+			6A	323315	Insulator Bracket Mk15	1
			75N 75Z	32288 32261	Bolt Hex M16 X 350 Bolt Hex M16 X 45	4
			77B	33771	Bolt Tower M12 X 35	4
:			82A	40441	Nut M16	4
			86B	65158	Washer Els 16	2
			88A 88B	66412 66413	Washer Tower 12 Washer Tower 16	4
$\dashv$				235714	Sectionaliser 3-ph 24kV (without Tubes)	1
				236335	Actuator to suit ABB Sectionaliser	3
			2A	323314	Crossarm Strap Mk14	4
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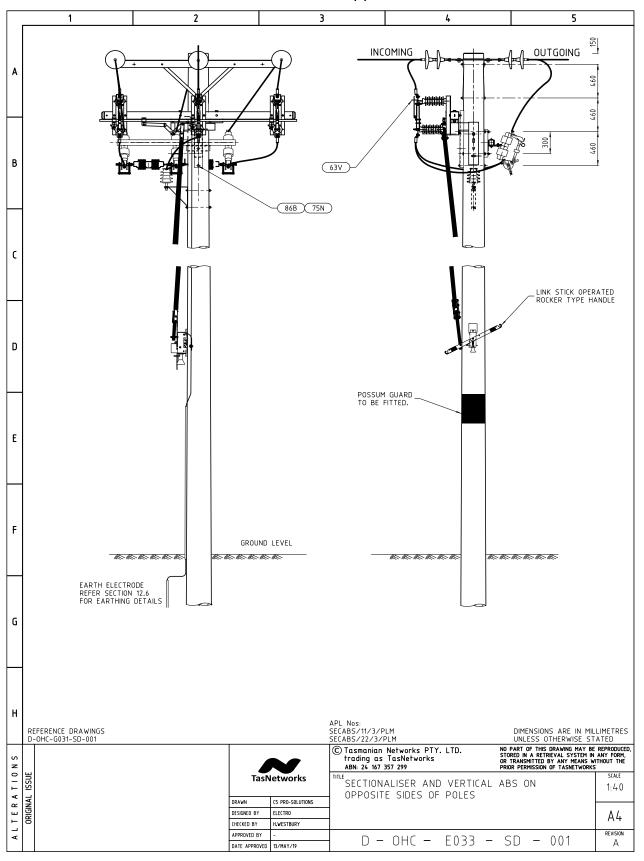
## 5.7.5 Sectionaliser with Vertical ABS on Same Side of Pole



## Sectionaliser with Vertical ABS on Same Side of Pole – Materials List

	1	2			3 4	5
				·		
	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity
Α	SECABS/11/3/PLM	S	59A	322721	Pin,Insulator 22kV	1
	SECABS/22/3/PLM		60E	320531	Insulator Pin 22/450	1
	excludes top HV construction		63V	235708	Switch Air-Break 24kV Unitised Horiz or Vert c/w Arc-Chutes - AK Power	1
	11kV or 22kV		6A	323315	Insulator Bracket Mk15	1
			75N 75P	32288	Bolt Hex M16 X 350 Bolt Hex M16 X 375	2
İ			75Z	32289 32261	Bolt Hex M16 X 45	4
В			77B	33771	Bolt Tower M12 X 35	4
			82A	40441	Nut M16	4
			86B	65158	Washer Els 16	6
			88A	66412	Washer Tower 12	4
			88B	66413	Washer Tower 16	4
				235714	Sectionaliser 3-ph 24kV (without Tubes)	1
c				236335	Actuator to suit ABB Sectionaliser	3
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z					ABN: 24 167 357 299 PRIOR PERMISSION OF TA	
1 0 1	ISSUE			TasNetw	vertical air break switch	SCALE NTS
⋖				an lasa	AK POWER SECTIONALISER - IN SERIES	1412
T E R	ORIGINAL		DESIG	WN C5 PRO INED BY ELECTR	ON SAME SIDE OF POLE	Λ./
_	[۴]		_	KED BY H.WEST		A4
Ε.						
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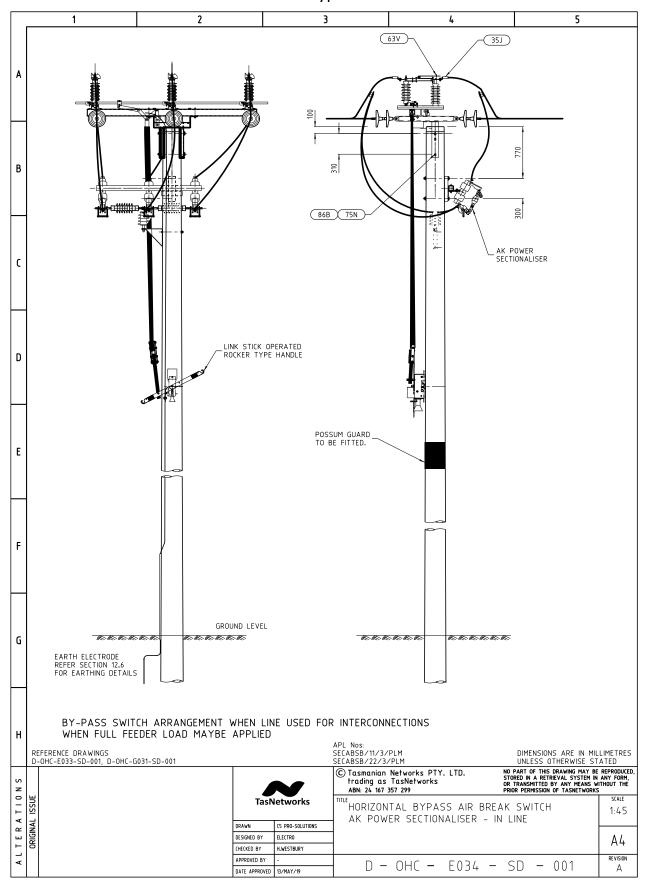
## 5.7.6 Sectionaliser with Vertical ABS on Opposite Side of Pole



# Sectionaliser with Vertical ABS on Opposite Side of Pole – Materials List

	1	2			3 4	5
1	•					
	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity
Α	SECABS/11/3/PLM	S	59A	322721	Pin,Insulator 22kV	1
	SECABS/22/3/PLM		60E	320531	Insulator Pin 22/450	1
	excludes top HV construction		63V	235708	Switch Air-Break 24kV Unitised Horiz or Vert c/w Arc-Chutes - AK Power	1
	11kV or 22kV		6A 75N	323315	Insulator Bracket Mk15	1
			75N 75P	32288 32289	Bolt Hex M16 X 350 Bolt Hex M16 X 375	2
			75Z	32269	Bolt Hex M16 X 45	4
В			77B	33771	Bolt Tower M12 X35	4
			82A	40441	Nut M16	4
			86B	65158	Washer Els 16	6
			88A	66412	Washer Tower 12	4
			88B	66413	Washer Tower 16	4
				235714	Sectionaliser 3-ph 24kV (without Tubes)	1
c				236335	Actuator to suit ABB Sectionaliser	3
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G H S N					UNLESS OTHERW  © Tasmanian Networks PTY. LTD. trading as TasNetworks ABN: 24 167 357 299 UNLESS OTHERW NO PART OF THIS DRAWNE STORED N A RETREVAL S OR TRANSMITTED BY ANY PRIOR PERMISSION OF TASK	ISE STATED MAY BE REPRODUCE YSTEM IN ANY FORM, MEANS WITHOUT THE IETWORKS
G H SN	SSUE			TasNetw	UNLESS OTHERW  C Tasmanian Networks PTY. LTD. trading as TasNetworks ABN: 24 167 357 299  TITLE  UNLESS OTHERW NO PART OF THIS DRAWING STORED IN A BERTREVAL'S OR TRANSMITTED BY ANY PRIOR PERMISSION OF TASM	ISE STATED  MAY BE REPRODUCE YSTEM IN ANY FORM, MEANS WITHOUT THE HETWORKS  SCALE
GHS	ı, issue				UNLESS OTHERW  Corks  C Tasmanian Networks PTY, LTD.  trading as TasNetworks ABM: 24 167 357 299  TITLE SECTIONALISER AND VERTICAL ABS ON OPPOSITE SIDES POLES	ISE STATED MAY BE REPRODUCE YSTEM IN ANY FORM, MEANS WITHOUT THE IETWORKS
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TERATIONS H D	ORIGINAL ISSUE		DES		UNLESS OTHERW  Tasmanian Networks PTY. LTD.  Trading as TasNetworks  ABh: 24 167 357 299  TITLE  SECTIONALISER AND VERTICAL ABS  ON OPPOSITE SIDES POLES  MATERIALS LIST	ISE STATED  MAY BE REPRODUCE YSTEM IN ANY FORM, MEANS WITHOUT THE HETWORKS  SCALE
ERATIONS H	Original Issue		DE S CHE	IGNED BY ELECTR	UNLESS OTHERW  Tasmanian Networks PTY. LTD.  Trading as TasNetworks  ABh: 24 167 357 299  TITLE  SECTIONALISER AND VERTICAL ABS  ON OPPOSITE SIDES POLES  MATERIALS LIST	ISE STATED  I MAY BE REPRODUCE STEM IN ANY FORM, MEANS WITHOUT THE METWORKS  SCALE  NTS  A4

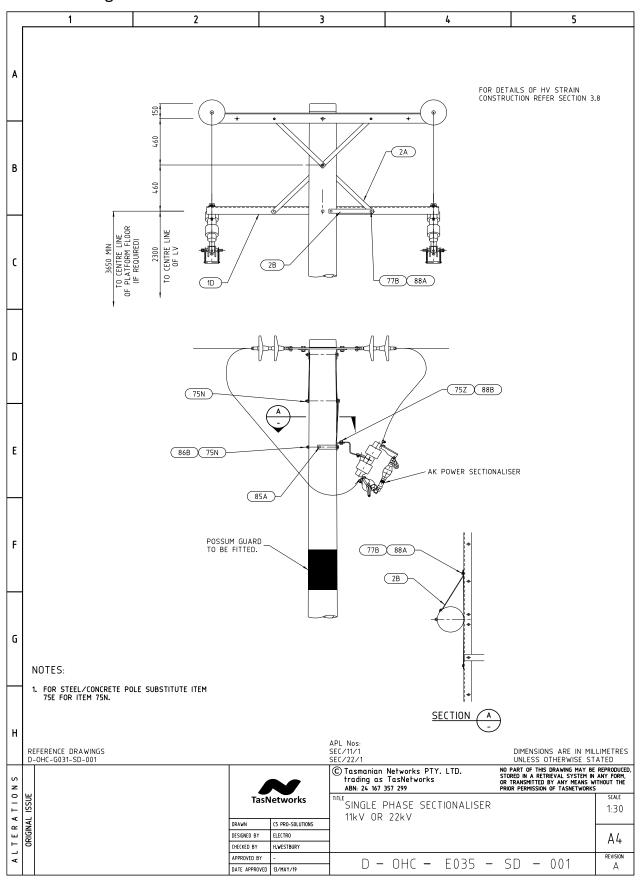
## 5.7.7 Sectionaliser with Horizontal Bypass ABS



# Sectionaliser with Horizontal Bypass ABS – Materials List

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						<u> </u>
	Unit Assembly				Stock Item Description	Quantity
A	SECABSB/11/3/PLM	S	59A		Pin,Insulator 22kV	1
	SECABSB/22/3/PLM excludes top HV strain construction		60E 60G	320531 321260	Insulator Pin 22/450 Insulator Disc Porcelain 16mm 70kN 146mm	1 12
	11kV or 22kV		61A		Ball Clevis & Pin 16mm	6
	THE OF ZZKE		61B	322386	Socket Termination 16mm	6
			61D		Kink Pin 16mm	6
			63V	235708	Switch Air-Break 24kV Unitised Horiz or Vert c/w Arc-Chutes - AK Power	1
3			6A	323315	Insulator Bracket Mk15	1
			75N	32288	Bolt Hex M16 X 350	2
			75P	32289	Bolt Hex M16 X 375	2
			75Z	32261	Bolt Hex M16 X 45	4
			82A	40441	Nut M16	4
			86B		Washer Els 16	6
			88B	66413	Washer Tower 16	4
				235714	Sectionaliser 3-ph 24kV (without Tubes)	1
				236335	Actuator to suit ABB Sectionaliser	3
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1					DIMENSIONS ARE UNLESS OTHERWI  © Tasmanian Networks PTY. LTD. NO PART OF THIS DRAWING STORED IN A RETRIEVAL SY trading as TasNetworks OR TRANSMITTED BY ANY M	SE STATED  MAY BE REPRODU STEM IN ANY FOF IEANS WITHOUT T
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ISSUE			DRAWN	CS PRO-SOLU	UNLESS OTHERWI  C Tasmanian Networks PTY. LTD. frading as TasNetworks ABN: 24 167 357 299  TITLE HORIZONTAL BYPASS AIR BREAK SWITCH AK POWER SECTIONALISER - IN LINE	MAY BE REPRODU STEM IN ANY FOR IEANS WITHOUT T TWORKS
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## 5.7.8 Single Phase Sectionaliser

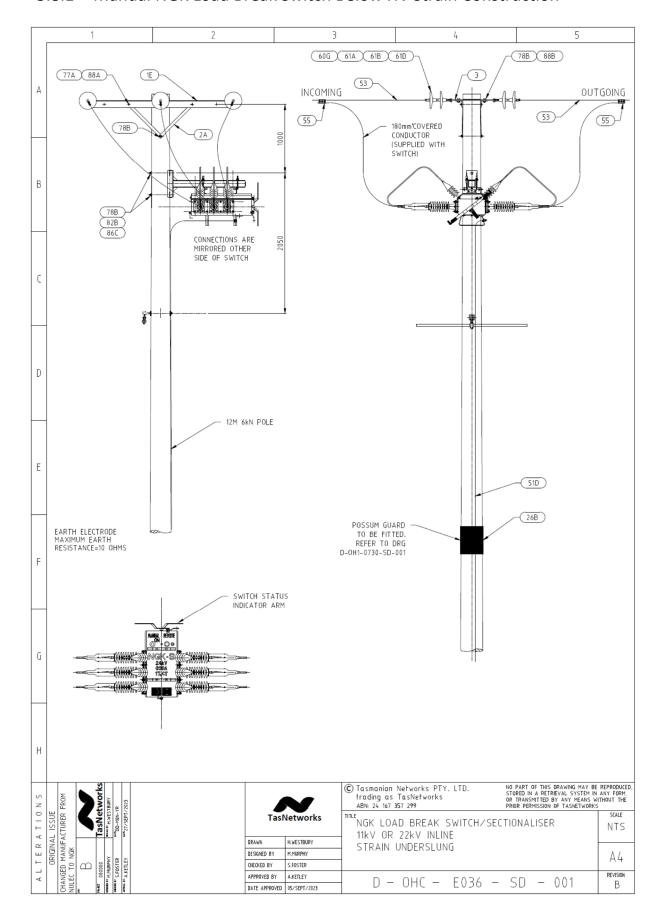


# Single Phase Sectionaliser – Materials List

SINGLE PHASE SECTIONALISER  11kV OR 22kV		1	2			3		4		5	
SECTIFI   S   77N   G022201   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO   SECTIFI   S   TO					_						
SEC1111   S   77N   G022201   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   SECI21   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC111   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SEC121   S   TO   SE			Unit Assambly	Store Tune	Itam Baf	Stock Itom		Description	Quantity	1	
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SSC1111   S   88A   606412   Washer Tow of 12   4										1	
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SEC1111   S   1D   \$22390   Cross arm Mate   1	_	4								•	
B   SEC2211   S   759N   G32266   Bost How MID X 30   3   SEC2211   S   776N   G32276   Bost How MID X 30   3   SEC2211   S   778   G33277   Bost Tower MID X 30   3   SEC2211   S   778   G33277   Bost Tower MID X 35   4   SEC2211   S   G363   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G364   G3										j	
B   SEC2271   S   75N   G32298   Bott-tex Mile X 350   3   SEC2271   S   77A   G33777   Bot Tower Mile X 30   3   SEC2271   S   77A   G33777   Bot Tower Mile X 30   3   SEC2271   S   75N   G33777   Bot Tower Mile X 30   4   SEC2271   S   668   686188   Wester Bs 16   1   SEC2271   S   668   686188   Wester Bs 16   1   SEC2271   S   668   686188   Wester Bs 16   1   SEC2271   S   668   686184   Wester Bs 16   1   SEC2271   S   668   686184   Wester Bs 16   S   1   SEC2271   S   668   686184   Wester Bs 16   S   SEC2271   S   668   SEC2271   S   233344   Consearm Stap Mile 1   SEC2271   S   SEC2271   S   233334   Consearm Stap Mile T   SEC2271   S   SEC2271   S   233334   Consearm Stap Mile X   SEC2271   S   SEC2271   S   28   SEC2271   S   28   SEC2271   S   28   SEC2271   S   28   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC2271   S   SEC227											
SEC22   S   774   333770   Solt Tower MT 2X 30   3			SEC/11/1	8	2B	323317	Crossarm	Strap Mk17	1		
SEC2271   S	В		SEC/22/1	S	75N	032286	Bolt Hex N	116 X 350	3	1	
SEC7271   S   S681   S681   S681   S681   S681   S681   S681   S687   S682   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687   S687										1	
SEC2271   S   SBA   OBD412   Washer Tower 12   4										]	
SEC2221   S   OG   S21220   Insulator, Disc   B   SEC2221   S   A   323314   Gossam Shrap Mk14   2   SEC221   S   D   323304   Actuator to sust ABB Sectionaliser   2   SEC2221   S   D   323304   Actuator to sust ABB Sectionaliser   2   SEC2221   S   D   323304   Actuator to sust ABB Sectionaliser   1   SEC2221   S   D   323317   Gossam Mk17   1   SEC2221   S   D   323317   Gossam Shrap Mk17   1   SEC2221   S   D   323317   Gossam Shrap Mk17   SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SECTION SHRAP SHRAP SHRAP SECTION SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP SHRAP										}	
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C   SE0/22/1   S   1D   32/3304   Ocesarm Med   1										†	
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### 5.8 Load Break Switches

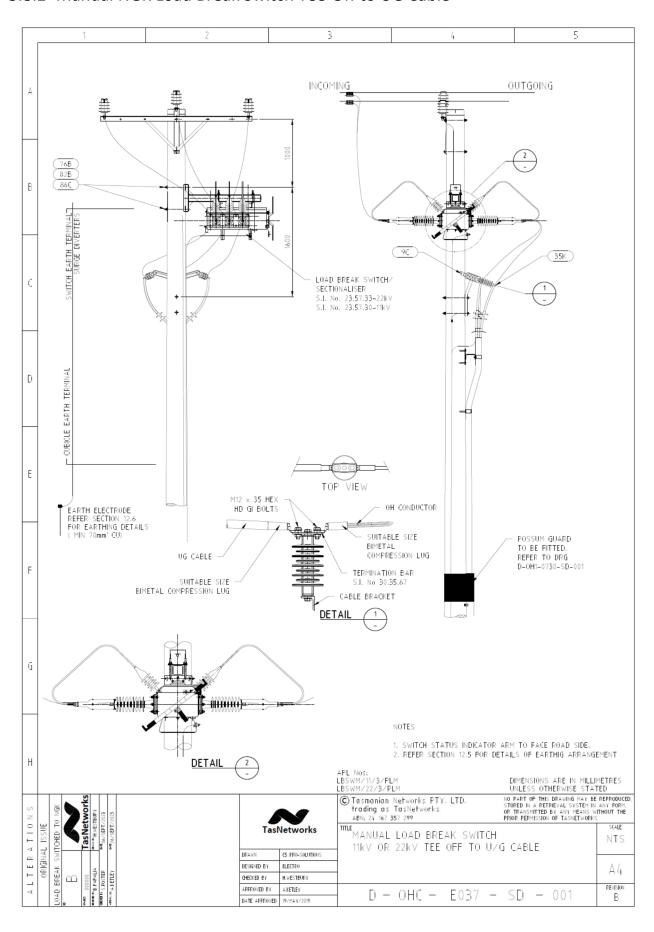
### 5.8.1 Manual NGK Load Break Switch Below HV Strain Construction



## Manual NGK Load Break Switch Below HV Strain Construction - Materials List

	1		2		3 4	5
				a	la	
Α	Unit Assembly LBSWW11/3/PLM		119F		Stock Item Description Lightning Arrester (NOT L/L TESTED) ABB 11kV 10kA c/w bird cap & M12 studs	Quantity 6
	LBSVWV 11/3/FLW	3	35P	141299	Lug Bolted 16mm <sup>2</sup> 12 hole	6
			51P	94184	Wire Electrical Cu 70mm <sup>2</sup> 1c Black	6
			55E	144955	Parallel groove clamp (7.5-17.5mm Bi metal)	12
			75M	32287	Bolt Hex M16 X 325	3
			76B	32338	Bolt Hex M20 X 350	2
В			77A	33770	Bolt Tower M12 X 30	4
			78D 82A	33783	Bolt Tower M16 X 50	4
			82B	40441 40442	Nut M16 Nut M20	2 2
			86B	65158	Washer Els 16	2
			86C	65159	Washer Els 20	2
			88A	66412	Washer Tower 12	4
-			88B	66413	Washer Tower 16	4
(				157891	Redback sleeving 20mm dia (per 10m coil)	1
				235730	Load Break Switch 11kV Manual N-A	1
	LBSWW22/3/PLM	S	119G	225773	Lightning Arrester (NOT L/L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs	6
	ESS. WWEELON CIVI		35P	141299	Lug Bolted 16mm² 12 hole	6
			51P	94180	Wire Electrical Cu 70mm <sup>2</sup> 1c Black	6
			55E	144955	Parallel groove clamp (7.5-17.5mm Bi metal)	12
D			75M	32287	Bolt Hex M16 X 325	3
			76B	32338	Bolt Hex M20 X 350	2
			77A	33770	Bolt Tower M12 X 30	4
4			78D 82A	33783	Bolt Tower M16 X 50 Nut M16	2
			82B	40441 40442	Nut M20	2
			86B	65158	Washer Els 16	2
Е			86C	65159	Washer Els 20	2
			88A	66412	Washer Tower 12	4
-			88B	00440	Washer Tower 16	
			000	66413	Washer Tower To	4
			000	157891	Redback sleeving 20mm dia (per 10m coil)	1
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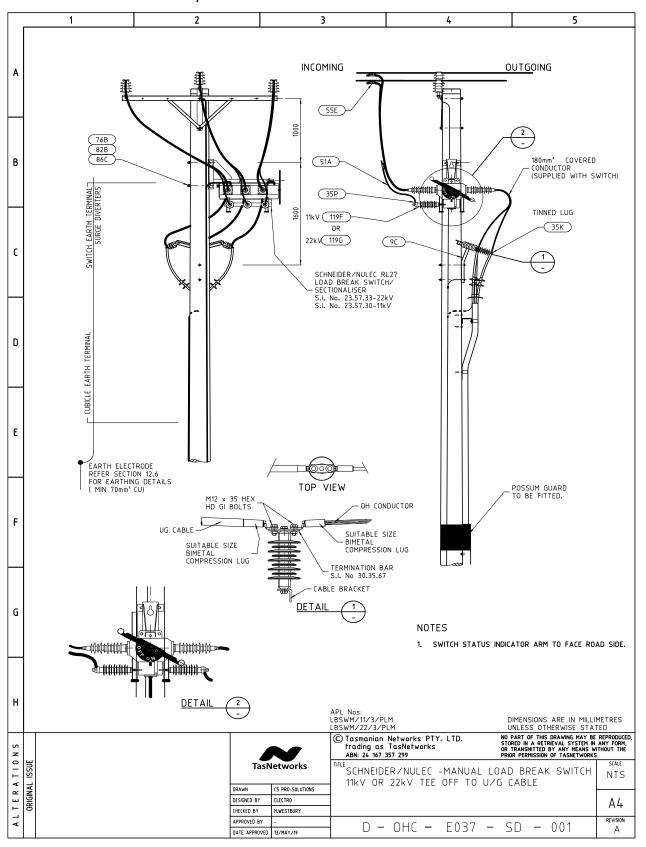
### 5.8.2 Manual NGK Load Break Switch Tee-Off to UG Cable



## Manual NGK Load Break Switch Tee-Off to UG Cable Materials List

	Unit Assembly	Store	Item	Stock	Stock Item Description	Quantity
	LBSWM/11/3/PLM	Type S	Ref	Item		
	EBOVVIVI I I TOTI EIVI		75M	32287	Bolt Hex M16 X 325	3
			76B	32338	Bolt Hex M20 X 350	2
			77A	33770	Bolt Tower M12 X 30	4
			78D	33783	Bolt Tower M16 X 50	4
			82A	40441	Nut M16	2
			82B 86B	40442 65158	Nut M20 Washer Els 16	2 2
			86C	65159	Washer Els 20	2
			88A	66412	Washer Tower 12	4
			88B	66413	Washer Tower 16	4
				323364	Load Break Switch 11kV Manual N-A	1
	LBSWM/22/3/PLM	S				6
			75M	32287	Bolt Hex M16 X 325	3
			76B 77A	32338	Bolt Tower M12 X 20	2
			77A 78D	33770 33783	Bolt Tower M12 X 30 Bolt Tower M16 X 50	4
			82A	40441	Nut M16	2
			82B	40442	Nut M20	2
			86B	65158	Washer Els 16	2
			86C	65159	Washer Els 20	2
			88A	66412	Washer Tower 12	4
			88B	66413 323364	Washer Tower 16 Load Break Switch 22kV Manual N-A	1
	ırks				UNLESS OTHE	ARE IN MILLIMETR FWISE STATED WING MAY BE REPROJU
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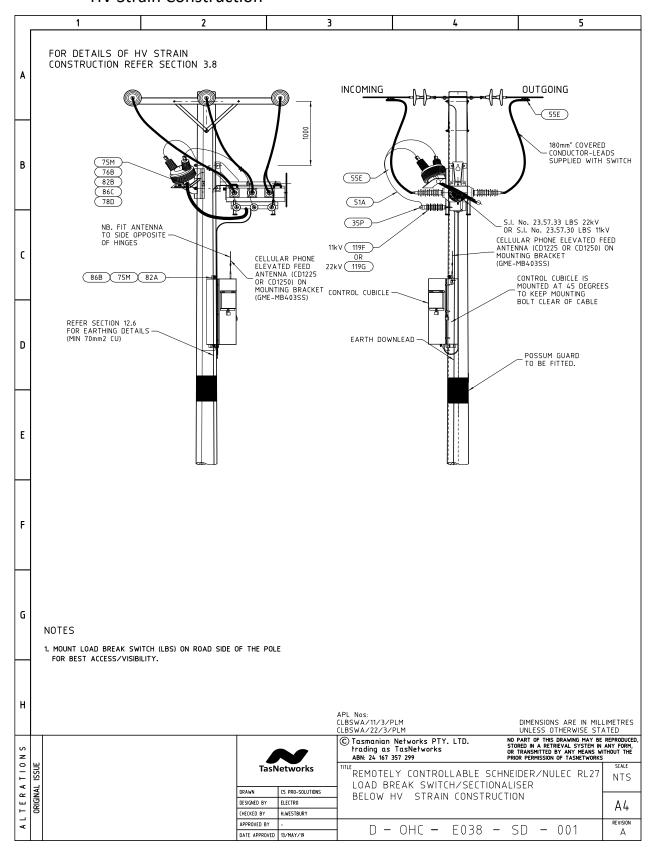
## 5.8.3 Manual Schneider / Nulec RL27 Load Break Switch Tee-Off to UG Cable



# Manual Schneider / Nulec RL27 Load Break Switch Tee-Off to UG Cable – Materials List

SCHNEIDER/NULEC-MANUAL LOAD BREAK SWITCH  11kV OR 22kV TEE OFF TO U/G CABLE				2		3 4	5
LBSVM011G/PLM   S   110F   225772   Lgbhining Arrester (NOT LL TESTED) ARB 118V 10kA cW bind cap & M12 stude   6	1						
SSP   141299   Use Bibled former* 22 hole   6		Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity
51C   04-180   Wine Electrical Cut 500mm* 12 mm Bimelai)   12   12   12   12   12   13   14   15   15   14   15   15   14   15   15	\	LBSWW11/3/PLM	S	119F			6
See				35P		,	6
ZSM   32297   Post-Hear Mit X 325   788   32238   Post-Hear Mit X 325   788   32238   Post-Hear Mit X 325   774   33770   Post Tower Mit X 330   4   4   4   4   4   4   4   4   4					94180	Wire Electrical Cu 50mm <sup>2</sup> 1c Black	6
789 3238 Both Hex Mid X 300 4 4 770 33773 301 Tower Mid X 300 4 4 780 33783 Both Tower Mid X 300 4 4 822 40442 Nut Mid Mid 92 2 869 61559 Westher Eis 10 2 2 860 61559 Westher Eis 10 2 2 860 61559 Westher Fis 10 1 2 2 860 60412 Westher Tower 12 4 4 8170781 Redback steering 20mm dia (per 10m cell) 1 1 827070 Switch LiBert LiBer Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Libert Lib				55E	144955	Parallel groove clamp (7.5-17.5mm Bi metal)	12
177   33770   501 Tower MID X30   4   4   4   4   4   4   4   4   4	1			75M	32287	Bolt Hex M16 X 325	3
280   33783   Bolt Tower MR X50   4   4   824   Mol Mol   2   2   824   30442   Mol Mol   2   2   825   826   82559   Meahrer Elis 10   2   2   826   82559   Meahrer Elis 20   2   4   4   825   826   82559   Meahrer Elis 20   2   2   4   4   825   826   82559   Meahrer Elis 20   2   4   4   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825   825				76B	32338	Bolt Hex M20 X 350	2
B2A				77A	33770	Bolt Tower M12 X 30	4
BSB				78D	33783	Bolt Tower M16 X 50	4
BBB   69158   Washer Els 16				82A	40441	Nut M16	2
BBC				82B	40442	Nut M20	2
B8A   66412   Washer Tower 12   4   4   4   4   4   4   4   157891   Redback sleewing 20mm dia (per 10m coil)   1   1   1   1   1   1   1   1   1				86B	65158	Washer Els 16	2
B88	1			86C	65159	Washer Els 20	2
LBSWM22/3/PLM   S   119G   22573   Switch Librar LBS RL27 11V Manual N-A   1				88A	66412	Washer Tower 12	4
LBSWM22/3/PLM   S   119G   226773   Lightning Arrester (NOT LL TESTED) ABB 22kV10kA c/w bird cap & M12 studs   6				88B	66413	Washer Tower 16	4
LBSWM22/3/PLM   S   119G   226773   Lightning Arrester (NOT LL TESTED) ABB 22kV10kA c/w bird cap & M12 studs   6					157891	Redback sleeving 20mm dia (per 10m coil)	1
35P							1
35P	1						
35P		LBSWW22/3/PLM	S	119G	225773	Lightning Arrester (NOT L/L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs	6
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78D   33783   Bolt Tower M16 X 50							
S2A							
S2B							
B6B   65158   Washer Els 16   2   2   88C   65159   Washer Els 20   2   2   88B   66412   Washer Tower 12   4   4   4   4   4   4   4   4   4	1						
B8C   65159   Washer Els 20							
B8B   66412   Washer Tower 12   4   4     4     4     4       4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4     4							
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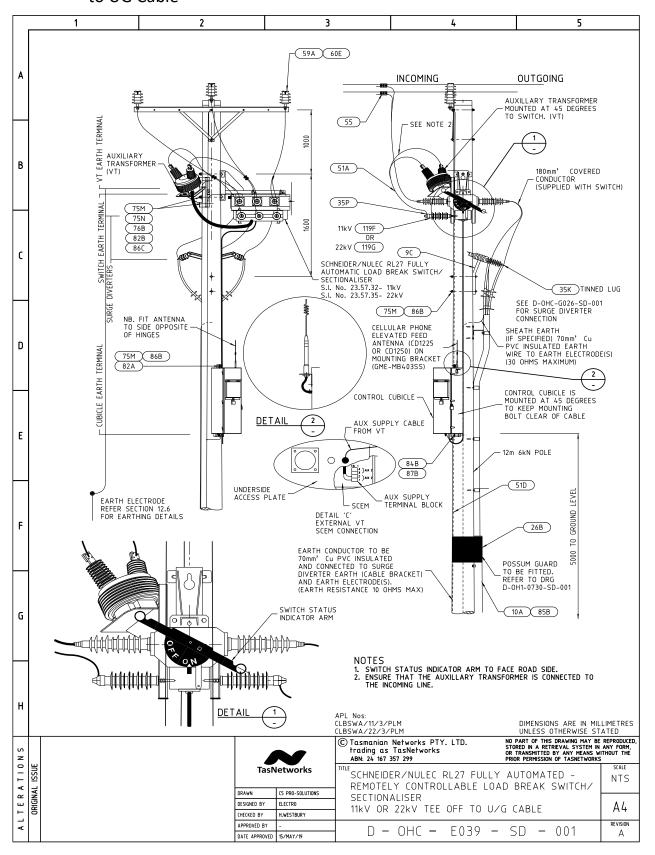
# 5.8.4 Remotely Controllable Schneider / Nulec RL27 Load Break Switch Below HV Strain Construction



# Remotely Controllable Schneider / Nulec RL27 Load Break Switch Below HV Strain Construction – Materials List

_	1		2			3 4		5
	ı	Unit Assembly	Store Time	Itam Daf	Ctook Itom	Stock Item Description	Quantity	
		Unit Assembly CLBSWA/11/3/PLM	S S	119F	225772	Lightning Arrester (NOT L/L TESTED) ABB 11kV 10kA c/w bird cap & M12 studs	3	
		OLDOVVA I I/O/I LIVI		35P		Lug Bolted 16mm <sup>2</sup> 12 hole	6	
1			1	51C		Wire Electrical Cu 50mm² 1c Black	12	
l				60H		Insulator Raychem standoff 24kV set of 3	1	
l				73F		Bolt HexM10 X 100	3	
				75M		Bolt Hex M16 X 325	3	
l			1	75N		Bolt Hex M16 X 350	3	
				76B		Bolt Hex M20 X 350	2	
				77A		Bolt Tower M12 X 30	4	
				78D		Bolt Tower M16 X 50	4	
				82A		Nut M16	2	
				82B	40442	Nut M20	2	
				84B		Coach Screw M10 X65	1	
				86B		Washer Els 16	2	
				86C		Washer Els 20	2	
				87B		Washer Ns 10	1	
				88A		Washer Tower 12	4	
l			1	88B		Washer Tower 16	4	
				9C		Standoff insulator bracket for u/g cables	1	
l			1			Nut M10	6	
1			1			Plug TNC (to suit RG58U Cable)	2	
						Mounting Bracket	1	
						Connector Crimp Type - Male	2	
						Cable Coaxial for Protection Unit with connectors & earth stud	1	
					133174	Cable CAT5E Blue Ethernet Type Patch Lead 1m Long	1	
						Isolation Switch 250V Outdoor 2 Pole 20 Amp	1	
					235732	LB Switch/Sect Nulec 22kV with Cubicle etc - Auto Control	1	
					303569	Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC	3	
					990800	External VT Nulec 11kV c/w Pole Mtg Bracket & HV/LV Tails	1	
					330000	Exemple 11 Marie 11 Mar of the line of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control	+ +	
l								
		CLBSWA/22/3/PLM	s	119G	225773	Lightning Arrester (NOT L/L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs	3	
		OLDOWAY22/3/FLIVI	3	35P		Lug Bolted 16mm <sup>2</sup> 12 hole	6	
				51C		Wire Electrical Cu 50mm <sup>2</sup> 1c Black		
				60H			12	
				73F		Insulator Raychem standoff 24kV set of 3		
				75M		Bolt Hex M10 X 100	3	
				75N		Bolt Hex M16 X 325 Bolt Hex M16 X 350	3	
				76B			2	
				77A		Bolt Hex M20 X 350		
				78D		Bolt Tower M12 X 30	4	
						Bolt Tower M16 X 50	4	
				82A	1	Nut M16	2	
				82B 84B		Nut M20	2	
				86B		Coach Screw M10 X 65	1	
l						Washer Els 16	2	
l				86C		Washer Els 20	2	
l			1	87B		Washer Ns 10	1	
l				88A	1	Washer Tower 12	4	
				88B		Washer Tower 16	4	
				9C	322063	Standoff insulator bracket for u/g cables	1	
						Nut M10	6	
					1	Plug TNC (to suit RG58U Cable)	2	
			1			Mounting Bracket	1	
						Connector Crimp Type - Male	2	
			1			Cable Coaxial for Protection Unit with connectors & earth stud	1	
					133174	Cable CAT5E Blue Ethernet Type Patch Lead 1m Long	1	
						Isolation Switch 250V Outdoor 2 Pole 20 Amp	1	
			1		235735	LB Switch/Sect Nulec 22kV with Cubicle etc - Auto Control	1	
					303569	Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC	3	
					990801	External VT Nulec 22kV c/w Pole Mtg Bracket & HV/LV Tails	1	
			1		1		1	
	1			ı		UNLE	SS OTHE	RE IN MILLIMET RWISE STATED ING MAY BE REPRO
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IVINO	dilah				DESIGNED BY	LOAD BREAK SWITCH/SECTIONALISER BELOW HV STRAIN CONSTRUCTION		A

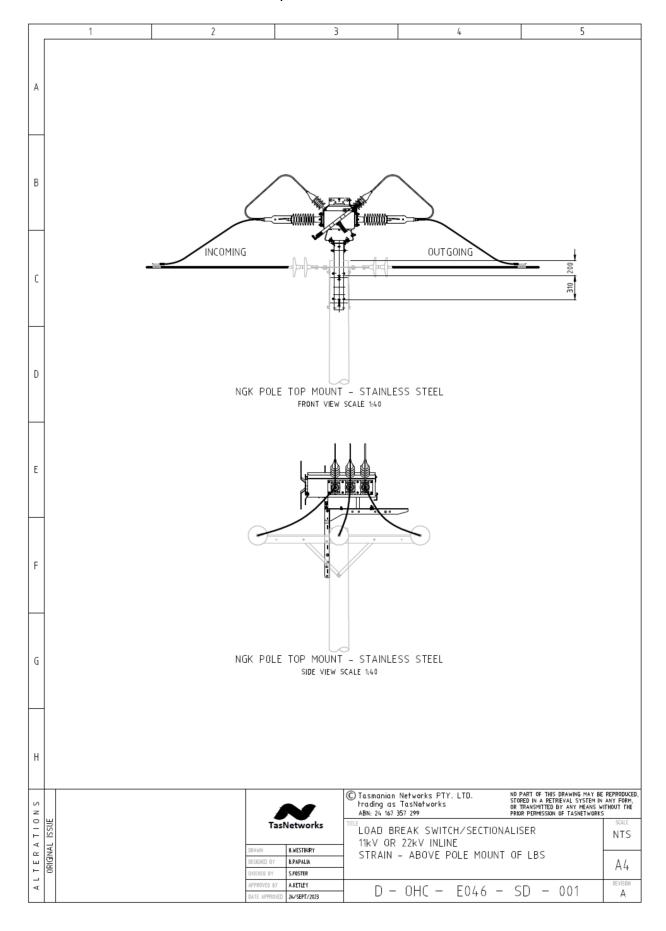
# 5.8.5 Remotely Controllable Schneider / Nulec RL27 Load Break Switch Tee-Off to UG Cable



# Remotely Controllable Schneider / Nulec RL27 Load Break Switch Tee-Off to UG Cable – Materials List

	1		2			3 4		5
		Unit Assembly	Store Type	Item Ref	Stock Ite	Stock Item Description	Quantity	
		CLBSWA/11/3/PLM	1 S	119F	225772	Lightning Arrester (NOT L/L TESTED) ABB 11kV 10kA c/w bird cap & M12 studs	3	
Α				35P 51C	141299	Lug Bolted 16mm² 12 hole  Wire Electrical Cu 50mm² 1c Black	6	
				60H	94180 320735	Wire Electrical Cu 50mm² 1c Black Insulator Raychem standoff 24kV set of 3	12	
		1		73F	32191	Bolt Hex M10 X 100	3	
		1		75M	32287	Bolt Hex M16 X 325	3	
	1			75N	32288	Bolt Hex M16 X 350	3	
				76B	32338	Bolt Hex M20 X 350	2	
				77A	33770	Bolt Tower M12 X 30	4	
В				78D	33783	Bolt Tower M16 X 50	4	
ט				82A 82B	40441 40442	Nut M16 Nut M20	2	
				84B	50226	Coach Screw M10 X 65	1	
				86B	65158	Washer Els 16	2	
	_			86C	65159	Washer Els 20	2	
				87B	65614	Washer Ns 10	1	
				88A	66412	Washer Tower 12	4	
				88B	66413	Washer Tower 16	4	
c				9C	322063	Standoff insulator bracket for u/g cables	1	
•		1		<del> </del>	40439	Nut M10  Plug TNC (to suit PG59LL Cable)	6	
				$\vdash$	133155	Plug TNC (to suit RG58U Cable)  Mounting Bracket	1	
		1			133158	Connector Crimp Type - Male	2	
	-	1			133159	Cable Coaxial for Protection Unit with connectors & earth stud	1	
					133174	Cable CAT5E Blue Ethernet Type Patch Lead 1m Long	1	
		1			231320	Isolation Switch 250V Outdoor 2 Pole 20 Amp	1	
		1			235732	LB Switch/Sect Nulec 22kV with Cubicle etc - Auto Control	1	
D		1		<u> </u>	303569	Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC	3	
				<u> </u>	990800	External VT Nulec 11kV c/w Pole Mtg Bracket & HV/LV Tails	1	
		CLBSWA/22/3/PLM	1 S	119G	225773	Lightning Arrester (NOT L/L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs	3	
	1			35P	141299	Lug Bolted 16mm <sup>2</sup> 12 hole	6	
		1		51C	94180	Wire Electrical Cu 50mm <sup>2</sup> 1c Black	12	
		1		60H	320735	Insulator Raychem standoff 24kV set of 3	1	
_				73F	32191	Bolt Hex M10 X 100	3	
Ε		1		75M	32287	Bolt Hex M16 X 325	3	
				75N	32288	Bolt Hex M16 X 350	3	
				76B	32338	Bolt Hex M20 X 350	2	
				77A 78D	33770	Bolt Tower M12 X 30	4	
	1			82A	33783 40441	Bolt Tower M16 X 50 Nut M16	2	
				82B	40442	Nut M20	2	
				84B	50226	Coach Screw M10 X65	1	
F				86B	65158	Washer Els 16	2	
'				86C	65159	Washer Els 20	2	
				87B	65614	Washer Ns 10	1	
		1		88A	66412	Washer Tower 12	4	
	4			88B 9C	66413	Washer Tower 16 Standoff insulator bracket for u/g cables	1	
		1		30	322063 40439	Nut M10	6	
		1			133155	Plug TNC (to suit RG58U Cable)	2	
		1			133157	Mounting Bracket	1	
G		1			133158	Connector Crimp Type - Male	2	
_					133159	Cable Coaxial for Protection Unit with connectors & earth stud	1	
		1			133174	Cable CAT5E Blue Ethernet Type Patch Lead 1m Long	1	
		1		<u> </u>	231320	Isolation Switch 250V Outdoor 2 Pole 20 Amp	1	
	4	1			235735	LB Switch/Sect Nulec 22kV with Cubicle etc - Auto Control	1	
		1		<u> </u>	303569	Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC  External VT Nulec 22kV c/w Pole Mtg Bracket & HV/LV Tails	3	
		1		$\vdash$	990801	Exicitial VI INDIEC 22KV C/W FOIE WILD DIACKET & FTV/LV TAILS	1	
	1	<u> </u>			1	1		
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TERATIONS	ORIGINAL ISSUE				DRAWN DESIGNED BY	Tasmanian Networks PTY. LTD. Intrading as TasNetworks ABN: 24 167 357 299  TILE SCHNEIDER/NULEC RL27 FULLY AUTO REMOTELY CONTROLLABLE LOAD BREE SECTIONALISER 11kV OR 22kV TEE O CABLE - MATERIALS LIST	LESS OTHE OF THIS DRA N A RETRIEVA RMISSION OF  DMATED  AK SW FF TO	RWISE STATED WING MAY BE REPRODUCE IL SYSTEM IN ANY FORM, NY MEANS WITHOUT THE TASNETWORKS  - ITCH/ U/G  A4

## 5.8.6 Manual NGK Over-the-top Load Break Switch

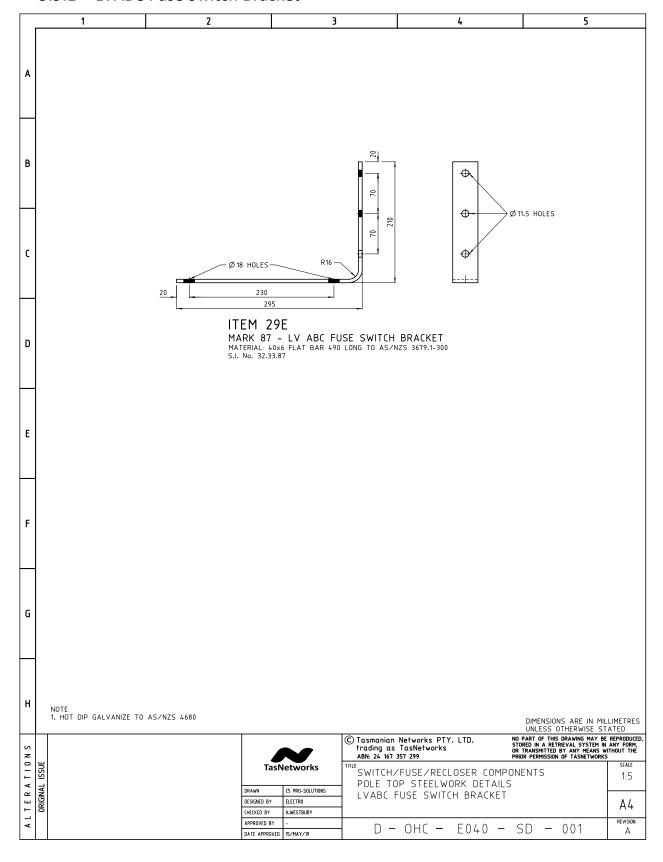


## Manual NGK Over-the-top Load Break Switch Materials List

	1		2		3 4	5
	Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity
	LBSWM/11/3/PLM	S				
			75M	32287	Bolt Hex M16 X 325	3
			76B	32338	Bolt Hex M20 X 350	2
			77A	33770	Bolt Tower M12 X 30	4
			78D	33783	Bolt Tower M16 X 50	4
			82A	40441	Nut M16	2
			82B 86B	40442 65158	Nut M20 Washer Els 16	2 2
			86C	65159	Washer Els 20	2
			88A	66412	Washer Tower 12	4
			88B	66413	Washer Tower 16	4
				323364	Bracket Mounting Pole Top	1
				323364	Load Break Switch 11kV Manual N-A	1
	LBSWM/22/3/PLM	S				6
			75M	32287	Bolt Hex M16 X 325	3
			76B	32338	Bolt Hex M20 X 350	2
			77A	33770	Bolt Tower M12 X 30	4
			78D 82A	33783	Bolt Tower M16 X 50	4
			82A 82B	40441 40442	Nut M16 Nut M20	2 2
			86B	65158	Washer Els 16	2
			86C	65159	Washer Els 20	2
			88A	66412	Washer Tower 12	4
			88B	66413	Washer Tower 16	4
				323364	Bracket Mounting Pole Top	1
				323364	Load Break Switch 22kV Manual N-A	1
				323364	Load Break Switch 22kV Manual N-A	1
				323364	Load Break Switch 22kV Manual N-A	1
				323364	Load Break Switch 22kV Manual N-A	1
				323364	Load Break Switch 22kV Manual N-A	1
				323364	DIMENSIONS  O Tasmanian Networks PTY. LTD.  NO PART OF THIS STORED IN A RETRIL  trading as TasNetworks  OR PARASWITTER 1	5 ARE IN MILLIMETI HERWIS ESTATEOU VALSYSTEM IN ANY FORM
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ORIGINAL ISSUE				TasNet  DRAWN  DRAFTING (HE	Tasmanian Networks PTY. LTD.  Trading as TasNetworks  ABN: 24 167 357 299  MANUAL LOAD BREAK SWITCH  11kV OR 22kV INLINE  STRAIN - ABOVE POLE MOUNT OF L  MATERIALS LIST	S ARE IN MILLIMETI HERWISE STATED RAWING MAY BE REPRODUCE VAL SYSTEM IN ANY FORM ANY MEANS THOUT THE F TASNETWORKS  SCA N.T. BS A

## 5.9 Poletop Steelwork Details

### 5.9.1 LVABC Fuse Switch Bracket



## 5.9.2 NGK Load Break Switch Mounting Detail

