



**NOTE:**  
REFER TO 22kV STANDARD CONSTRUCTION DRAWINGS FOR 22kV THROUGH TERMINATION CONSTRUCTION OPTIONS

- NOTES:**
1. A MINIMUM DISTANCE OF 2500mm BETWEEN HIGH AND LOW VOLTAGE CONDUCTORS IS TO BE MAINTAINED AT ALL TIMES TO ALLOW FOR LIVE LINE WORKING PROCEDURES.
  2. CLEARANCES:  
SOURCE - A.S.2067 (24kV)  
PHASE TO PHASE - 325mm  
PHASE TO EARTH - 270mm
  3. INSTALL AIR BREAK SWITCH ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
  4. OPERATING MECHANISM MUST BE INSTALLED ON THE FOOTPATH SIDE OF THE POLE. INSTALLATION ON THE ROAD SIDE OF THE POLE IS NOT ACCEPTABLE.
  5. EYE COACH SCREW/BOLT TO BE INSTALLED 2m ABOVE GROUND LEVEL ON FOOTPATH SIDE OF POLE FOR ATTACHMENT OF OPERATORS "DANGER DO NOT OPERATE" TAG.
  6. AIR BREAK SWITCH MAY BE SUPPLIED WITH ALTERNATIVE COMPONENTS RESULTING IN AN EXTRA 58mm OF HEIGHT. ENSURE MINIMUM 700mm OF SEPARATION IS MAINTAINED FROM THE CENTRE OF THE HV CROSSARM.
  7. POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
  8. WHEN INSTALLING AN ABS ON A CONCRETE OR STEEL POLE, REPLACE THE SUPPLIED EYE COACH SCREW WITH AN M12 GALVANISED EYE BOLT. (ITEM 16)
  9. REFER TO DESIGNER SAFETY REPORT D21/78521 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

**NOTE:**  
REFER TO LV STANDARD CONSTRUCTION DRAWINGS FOR LV CONSTRUCTION OPTIONS

DISCONNECTOR RATINGS			
VOLTAGE	U	24	kV
LWV	UL	150	kVp
NORMAL CURRENT	In	630	A
FREQUENCY	-	50	Hz
STWC	Ith	12.5	kA
DURATION OF STWC	+	3	s
CREEPAGE		800	mm
MASS		80	kg

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
17	STEP - POLE (FOR USE ON COMPOSITE POLES) (SEE NOTE 7)	244223	184743	
	STEP - POLE (FOR USE ON CONCRETE & STEEL POLES) (SEE NOTE 7)	514084	H87809	A/R
	STEP - POLE, SCREW-IN (FOR USE ON TIMBER POLES) (SEE NOTE 7)	250144	185198	
16	BOLT - EYE, M12, GALVANISED (FOR USE ON CONCRETE & STEEL POLES) (SEE NOTES 5 & 8)		PURCHASE	1
15	WASHER - FLAT, M12, GALVANISED	518081	177982	4
14	WASHER - CONICAL, M12, GALVANISED	518082	H39639	2
13	WASHER - SQUARE, 50x50x6mm, GALVANISED (Ø14mm HOLE)			2
12	BOLT & NUT - M12, HEX, GALVANISED (LENGTH TO SUIT POLE)	515466		2
11	LUG - COMPRESSION, 2xM10 HOLES (TO SUIT CONDUCTOR)	514053		6
10	NUT - M10, HEX, STAINLESS STEEL	515467	H39401	12
9	WASHER - SPRING, M10, STAINLESS STEEL	518082	50120	12
8	WASHER - FLAT, M10, STAINLESS STEEL	518081	49411	24
7	SCREW - SET, M10x30mm, HEX, STAINLESS STEEL	515467	45088	12
6	WASHER - FLAT, M20, GALVANISED	518081	177986	3
5	WASHER - CONICAL, M20, GALVANISED	518082	H39655	3
4	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	6
3	BOLT & NUT - M20, HEX, GALVANISED (LENGTH TO SUIT POLE)	515466		3
2	DISCONNECTOR - 12/24kV, LOAD BREAK, MODULAR (SEE NOTES 3, 4 & 6)		H95406	1
	DISCONNECTOR - 12/24kV, LOAD BREAK, UNITISED (SEE NOTES 3, 4 & 6)		66647	
1	POLE - AS REQUIRED			1

CAD DRAWING  
DO NOT MANUALLY AMEND  
AMENDMENTS  
DWN: PATRICIA RIOS  
CHKD: PHILLIP JONES  
DATE: 30/04/2021  
DRAWING TITLE AMENDED.

APP'D by: GLENN FORD  
DWN: P.J.  
CHKD: P.J.  
APP'D: G.F.  
DATE: 06/03/2024  
ASSOCIATED DRAWING TITLE AMENDED.

NO.	DESCRIPTION	ITEM NO.
1	22kV INSULECT AIR BREAK SWITCH	255645 SH1
2	ASSOCIATED DRAWINGS	

NETWORK STANDARD  
**Ausgrid**  
145 NEWCASTLE RD WALLSEND,  
NSW 2287

SCALE	DESIGNED	DRAWN	CHECKED	APPROVED	DATE	PROJECT NUMBER	PROJTRAK NUMBER	SIZE	DRAWING No	SHEET	AMD
1:20	P.JONES	P.RIOS	C.ROSSELL	G.FORD	31/03/2021	STD	-	A2	255645	02	2

STANDARD CONSTRUCTION  
22kV NGK STANGER  
MID POLE OPERATED AIR BREAK SWITCH  
FOR TIMBER, COMPOSITE, CONCRETE & STEEL POLES  
GENERAL ARRANGEMENT 3-455