

DISTRIBUTION DESIGN CATALOGUE Section 05

AB – Low Voltage ABC

HPC-1DC-07-0005-2014

For application to
Horizon Power
Electricity Distribution Networks



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^{**} Frequency period is dependent upon circumstances— maximum is 5 years from last issue, review, or revision whichever is the latest. If left blank, the default shall be 1 year unless otherwise specified.

	Revision Control				
Revision	Revision Date Description				
7 29/08/2022		No update required			

Refer to Appendix A for Full Revision History.

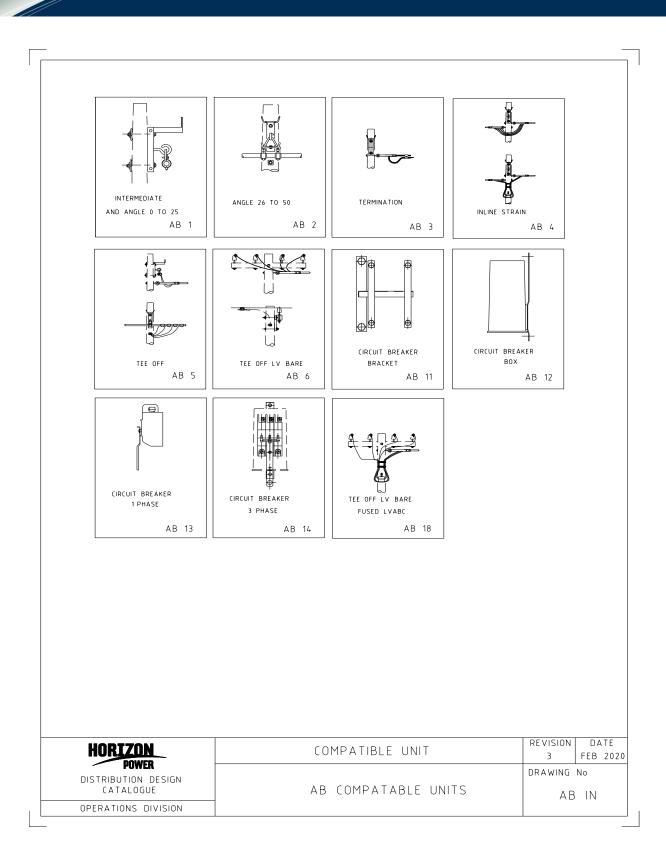
STAKEHOLDERS The following positions shall be consulted if an update or review is required:	NOTIFICATION LIST The following positions shall be notified of any authorised change:
Asset Managers	Field Practice Coordinators
Works Delivery Managers	Logistics Managers
Asset Service Delivery Managers	EPCM Contracts Manager



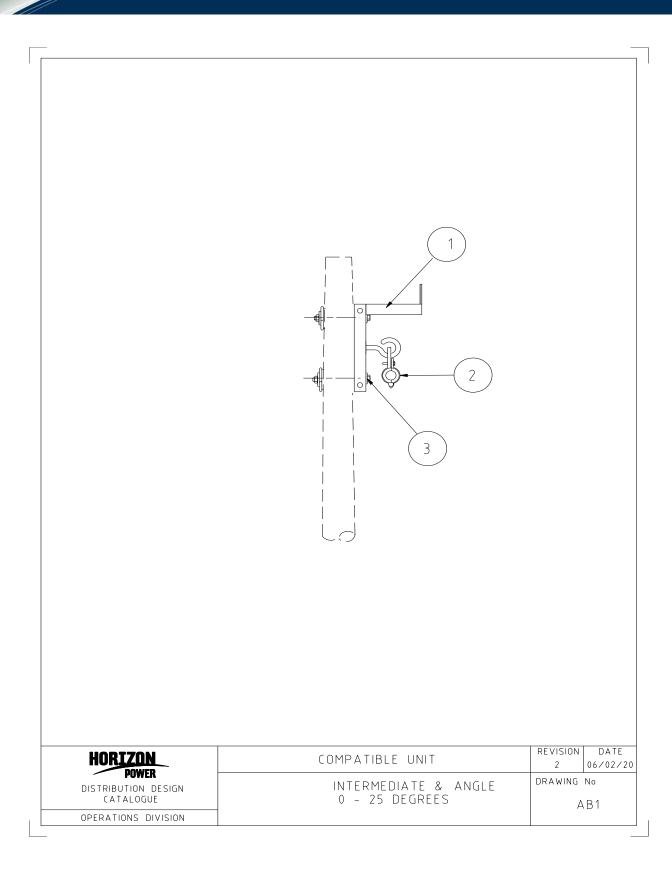
LOW VOLTAGE ABC LIST

CU	CU DESCRIPTION
AB1_95	Intermediate and angle 0 to 25_95
<u>AB1_150</u>	Intermediate and angle 0 to 25_150
<u>AB2_95</u>	Angle 26 to 50 _95
<u>AB2_150</u>	Angle 26 to 50 _150
<u>AB3_95</u>	Termination_95
<u>AB3 150</u>	Termination_150
<u>AB4_95</u>	Inline strain_95
<u>AB4_150</u>	Inline strain_150
<u>AB4_95F</u>	Inline strain with FSDO
<u>AB4_150F</u>	Inline strain with FSDO
<u>AB5 95</u>	Tee off _95
<u>AB5_150</u>	Tee off _150
AB6_95AL	Tee off-LV bare_aluminium to ABC 95
<u>AB6 95CU</u>	Tee off-LV bare_copper to ABC 95
AB6_150AL	Tee off-LV bare_aluminium to ABC 150
AB6_150CU	Tee off-LV bare_copper to ABC 150
<u>AB11</u>	Circuit breaker mounting bracket
<u>AB12</u>	Circuit breaker box
<u>AB13</u>	Circuit breaker 1 phase
<u>AB14</u>	Circuit breaker 3 phase with box
AB18_95AL	Tee off-LV bare_aluminium to fused ABC 95
AB18_95CU	Tee off-LV bare_copper to fused ABC 95
<u>AB18 150AL</u>	Tee off-LV bare_aluminium to fused ABC 150
AB18_150CU	Tee off-LV bare_copper to fused ABC 150







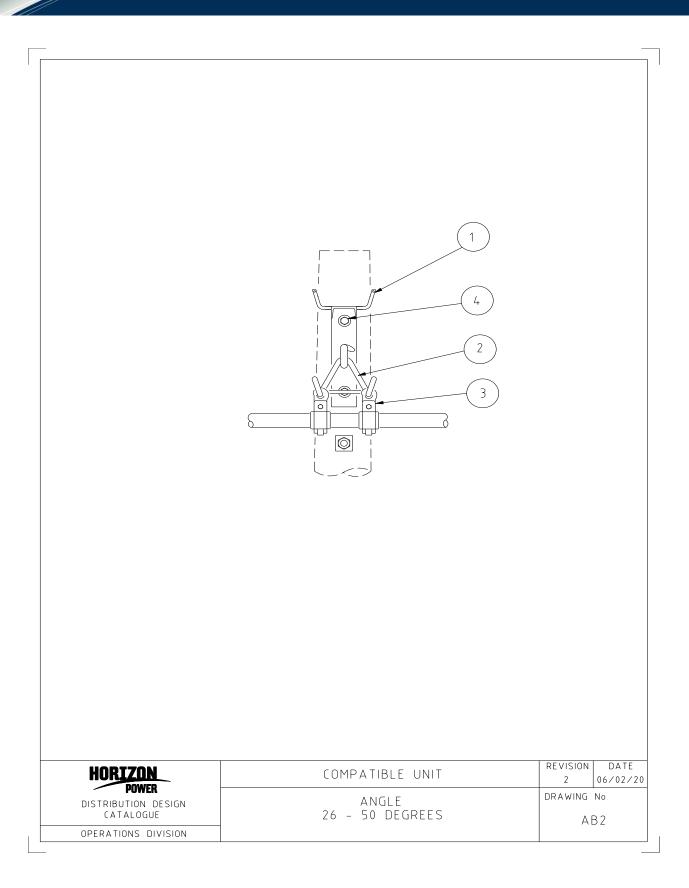




CU		CU DESCRIPTION			
AB1_95		Intermediate and angle 0 to 25_95			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CB3020	Universal bracket	1	ea	
2	CC0101	Suspension clamp, 95 ABC	1	ea	
3	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	

CU		CU DESCRIPTION			
AB1_150		Intermediate and angle 0 to 25_150			
ITEM Number					REMARKS
1	CB3020	Universal bracket	1	ea	
2	CC0110	Suspension clamp, 150 ABC	1	ea	
3	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	



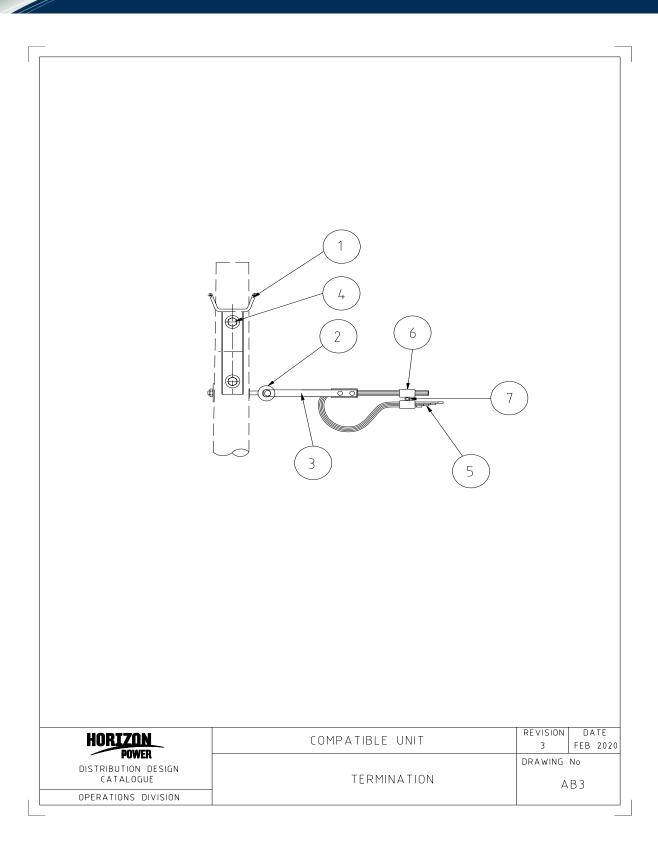




CU		CU DESCRIPTION			
AB2_95		Angle 26 to 50_95			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CB3020	Universal bracket	1	ea	
2	CC0090	Hanger yoke	1	ea	
3	CC0101	Suspension clamp, 95 ABC	2	ea	
4	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	

CU DESCRIPTION					
AB2_150)	Angle 26 to 50_150			
ITEM Number				UNIT OF MEASURE	REMARKS
1	CB3020	Universal bracket	1	ea	
2	CC0090	Hanger yoke	1	ea	
3	CC0110	Suspension clamp, 150 ABC	2	ea	
4	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	



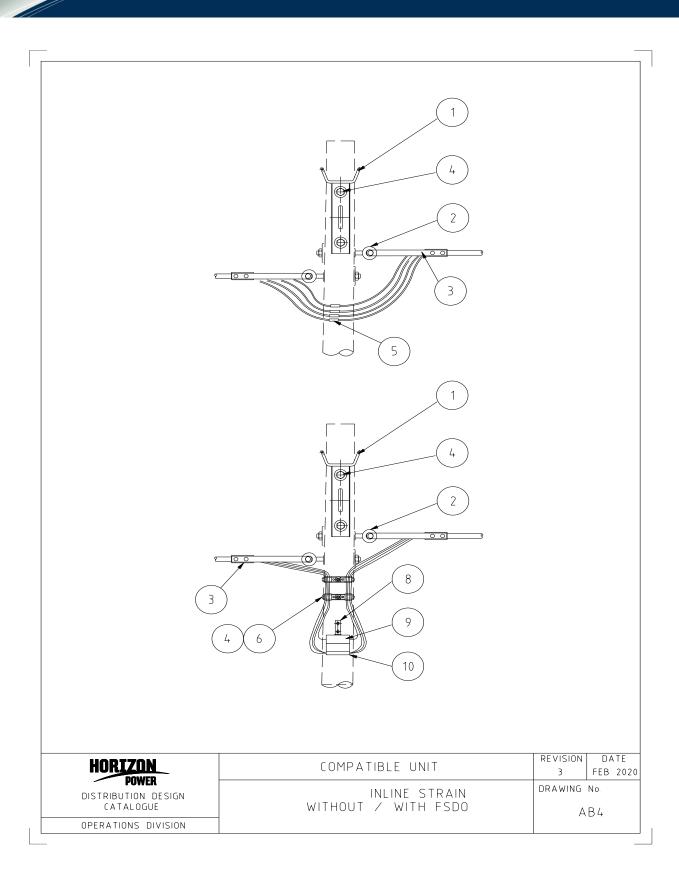




CU		CU DESCRIPTION			
AB3_95		Termination_95			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CB3020	Universal bracket	1	ea	
2	AB6024	Eyebolt-16dia x 350 mm long with nut and washer	1	ea	
3	CC0100	Strain clamp, 95-150 ABC	1	ea	
4	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	
5	CJ0063	End caps push on 95mm ²	4	ea	
6	CC0101	Suspension clamp, 95 ABC	2	ea	
7	AB4600	Bolt, Machine; M16 X 50mm Class 4.6 Galv with Nut	1	ea	

CU		CU DESCRIPTION			
AB3_150)	Termination_150			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CB3020	Universal bracket	1	ea	
2	AB6024	Eyebolt-16dia x 350 mm long with nut and washer	1	ea	
3	CC0100	Strain clamp, 95-150 ABC	1	ea	
4	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	
5	CJ0062	End caps push on 150mm ²	4	ea	
6	CC0110	Suspension clamp, 150 ABC	2	ea	
7	AB4600	Bolt, Machine; M16 X 50mm Class 4.6 Galv with Nut	1	ea	







CU		CU DESCRIPTION			
AB4_95		Inline strain_95			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CB3020	Universal bracket	1	ea	
2	AB6024	Eyebolt-16dia x 350 mm long with nut and washer	2	ea	
3	CC0100	Strain clamp, 95-150 ABC	2	ea	
4	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	
5	CJ0491	Full tension sleeve – 95 ABC	4	ea	

CU		CU DESCRIPTION			
AB4_150 Inline strain_150					
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CB3020	Universal bracket	1	ea	
2	AB6024	Eyebolt-16dia x 350 mm long with nut and washer	2	ea	
3	CC0100	Strain clamp, 95-150 ABC	2	ea	
4	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	
5	CJ0490	Full tension sleeve – 150 ABC	4	ea	

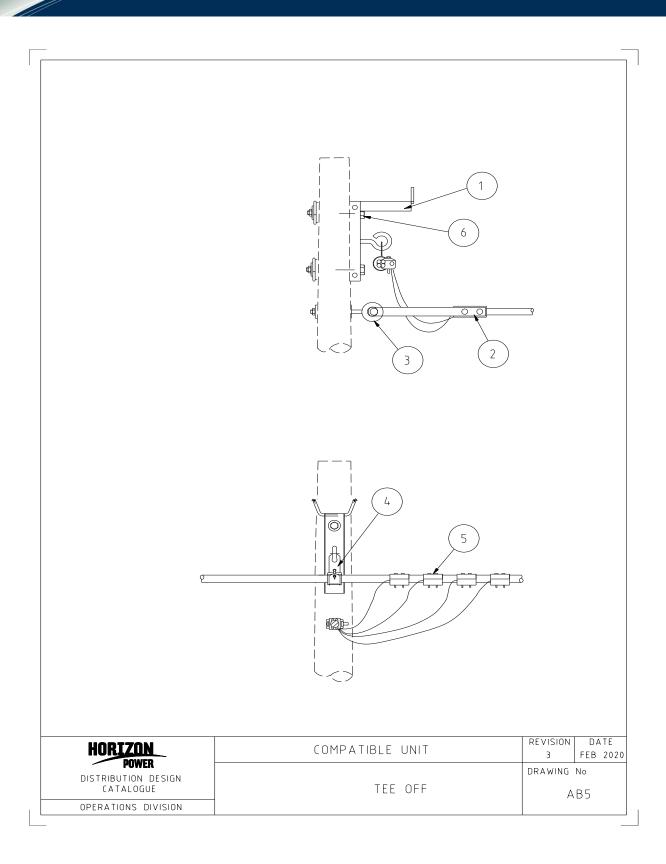
CU		CU DESCRIPTION			
AB4_95F Inline strain_95 with FSDO					
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CB3020	Universal bracket	1	ea	
2	AB6024	Eyebolt-16dia x 350 mm long with nut and washer	2	ea	
3	CC0100	Strain clamp, 95-150 ABC	2	ea	
4	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	
6	CC0101	Suspension clamp, 95 ABC	4	ea	
7	CB3055	Transformer harness support bracket	2	ea	
7	N/A	Bandit Strap (19 mm) (not included in CU)	-	N/A	Truck item
8	AB6736	Pole bolt M12 x 400 mm long with nut and washers	2	ea	



CU		CU DESCRIPTION			
9	GS0109	Neutral Block	1	ea	
10	GS0111	Fuse disconnector (Rated 400A)	1	ea	

CU		CU DESCRIPTION			
AB4_150)F	Inline strain_150 with FSDO			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CB3020	Universal bracket	1	ea	
2	AB6024	Eyebolt-16dia x 350 mm long with nut and washer	2	ea	
3	CC0100	Strain clamp, 95-150 ABC	2	ea	
4	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	
6	CC0110	Suspension clamp, 150 ABC	4	ea	
7	CB3055	Transformer harness support bracket	2	ea	
7	N/A	Bandit Strap (19 mm) (not included in CU)	-	N/A	Truck item
8	AB6736	Pole bolt M12 x 400 mm long with nut and washers	2	ea	
9	GS0109	Neutral Block	1	ea	
10	GS0111	Fuse disconnector (Rated 400A)	1	ea	



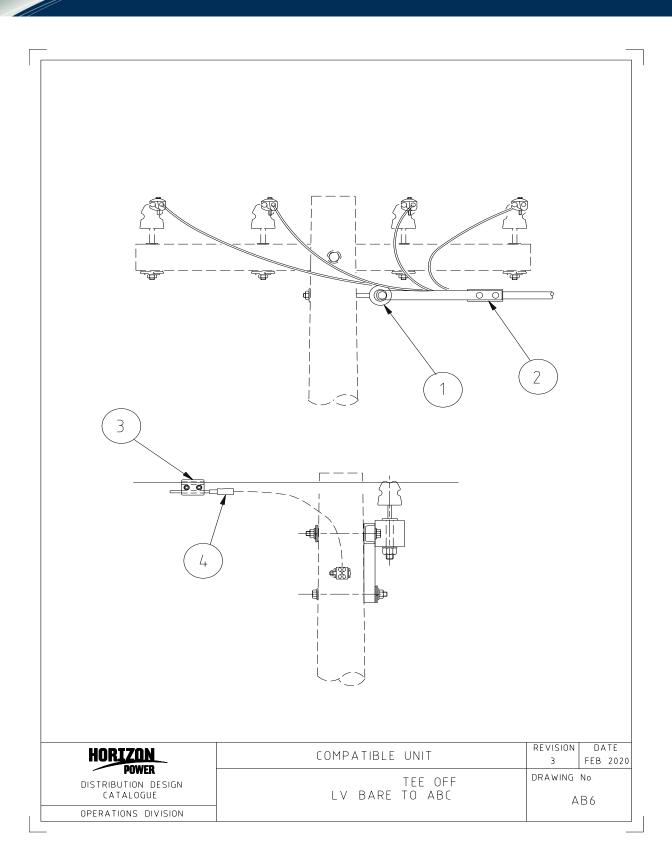




CU		CU DESCRIPTION			
AB5_95		Tee off_95			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CB3020	Universal bracket	1	ea	
2	CC0100	Strain clamp, 95-150 ABC	1	ea	
3	AB6024	Eyebolt - 16 dia x 350 mm long with nut and washer	1	ea	
4	CC0101	Suspension clamp, 95 ABC	1	ea	
5	CC0080	Insulation piercing clamp, 95 ABC	4	ea	
6	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	

CU		CU DESCRIPTION			
AB5_150	1	Tee off_150			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CB3020	Universal bracket	1	ea	
2	CC0100	Strain clamp, 95-150 ABC	1	ea	
3	AB6024	Eyebolt - 16 dia x 350 mm long with nut and washer	1	ea	
4	CC0110	Suspension clamp, 150 ABC	1	ea	
5	CC0081	Insulation piercing clamp, 150 ABC	4	ea	
6	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	







CU DESCRIPTION					
AB6_95AL		Tee off-LV bare_aluminium to ABC 95			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	AB6024	Eyebolt - 16 dia x 350 mm long with nut and washer	1	ea	
2	CC0100	Strain clamp, 95-150 ABC	1	ea	
3	CC0138	Parallel-groove clamp Al-Al	4	ea	
4	CJ0494	Splice 95 ABC with AI tail	4	ea	

CU CU DESCRIPTION					
AB6_95CU		Tee off-LV bare_copper to ABC 95			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	AB6024	Eyebolt - 16 dia x 350 mm long with nut and washer	1	ea	
2	CC0100	Strain clamp, 95-150 ABC	1	ea	
3	CC0130	Parallel-groove clamp Cu-Cu	8	ea	
4	CJ0492	Splice 95 ABC with Cu tail	4	ea	

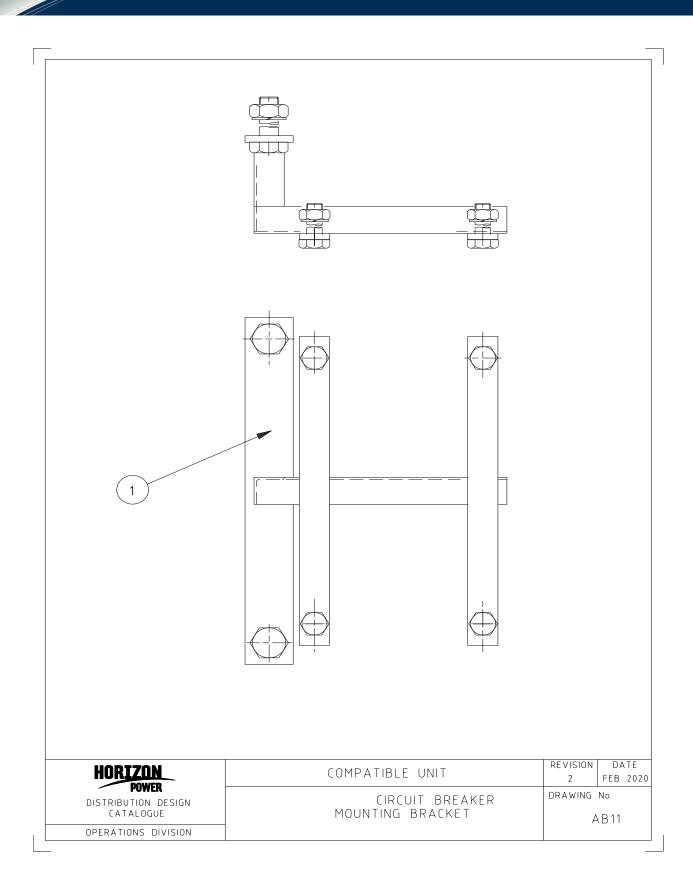
CU DESCRIPTION					
AB6_150AL		Tee off-LV bare_aluminium to ABC 150			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	AB6024	Eyebolt - 16 dia x 350 mm long with nut and washer	1	ea	
2	CC0100	Strain clamp, 95-150 ABC	1	ea	
3	CC0138	Parallel-groove clamp Al-Al	4	ea	
4	CJ0496	Splice 150 ABC with Al tail	4	ea	

cu		CU DESCRIPTION	CU DESCRIPTION				
AB6_150CU		Tee off-LV bare_copper to ABC 150					
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS		
1	AB6024	Eyebolt - 16 dia x 350 mm long with nut and washer	1	ea			
2	CC0100	Strain clamp, 95-150 ABC	1	ea			
3	CC0130	Parallel-groove clamp Cu-Cu	8	ea			



CU		CU DESCRIPTION			
4	CJ0493	Splice 150 ABC with Cu tail	4	ea	

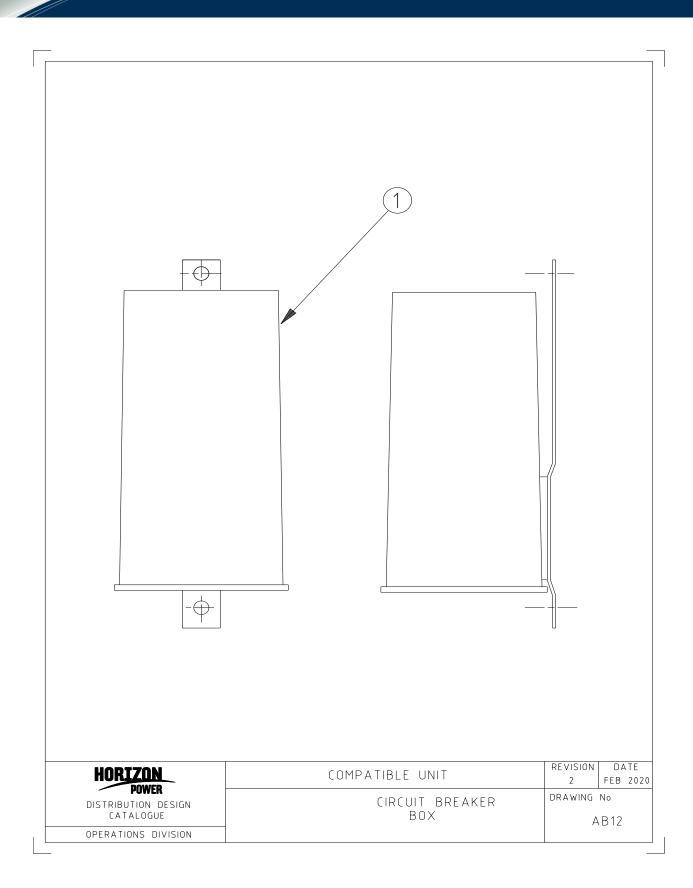






CU		CU DESCRIPTION			
AB11 Circuit breaker mounting bracket					
ITEM Number	STOCK Number	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CR1026	Circuit breaker mounting bracket with nuts and bolts	1	ea	

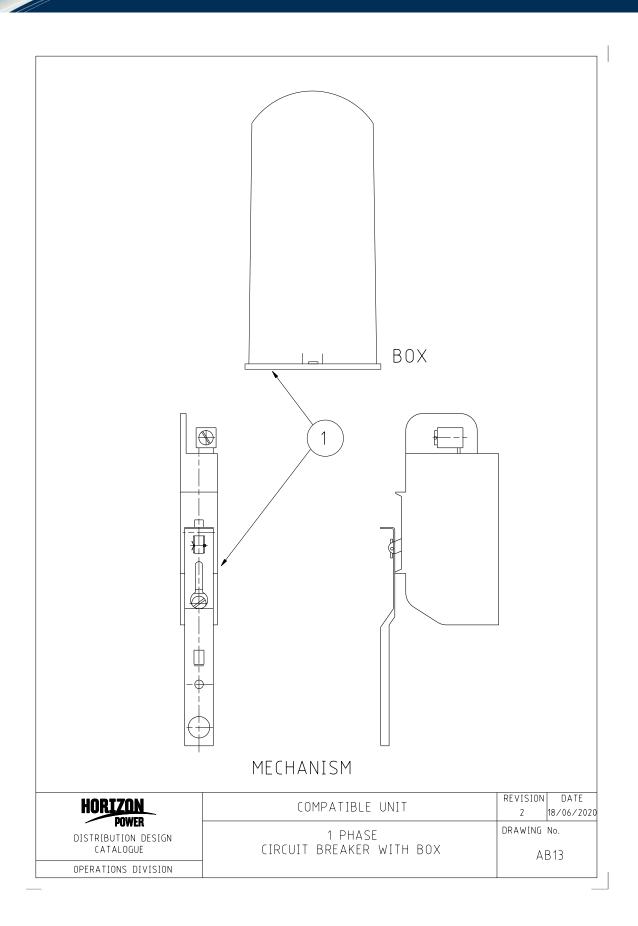






CU		CU DESCRIPTION			
AB12		Circuit breaker box			
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
4	FB0602	Circuit breaker box	4	ea	

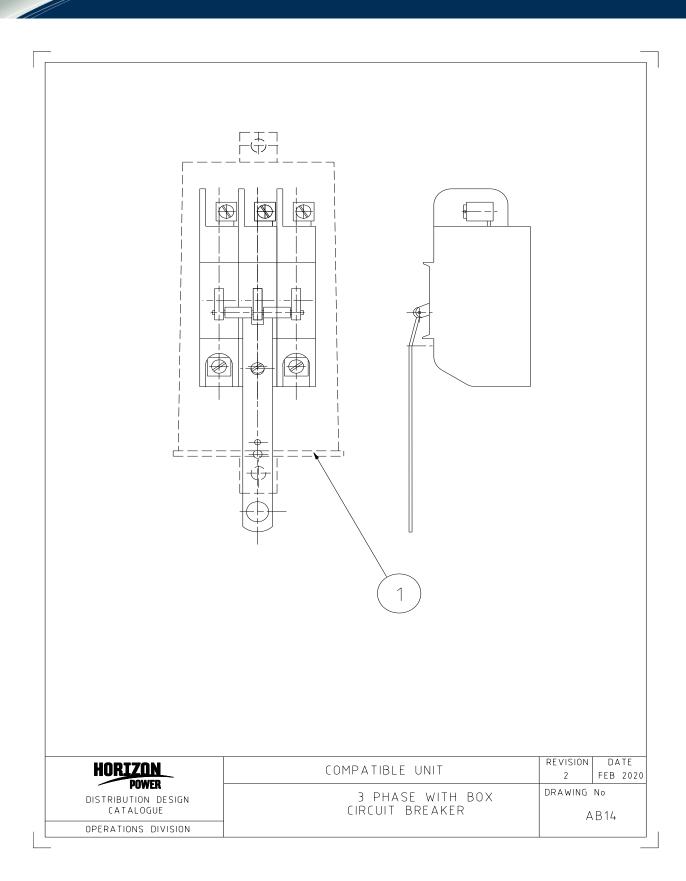






CU		CU DESCRIPTION			
AB13 Circuit breaker 1 phase with box					
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	GZ0016	Circuit Breaker, type SF MCB 1PH 50A 6kA C1, (Including pole mounting enclosure-SPB1)	1	ea	

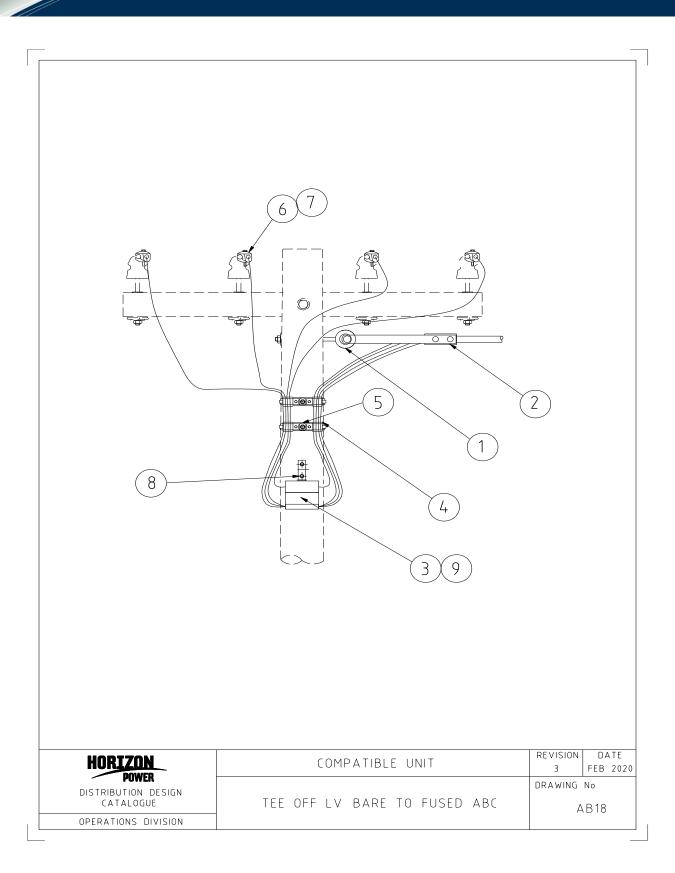






CU		CU DESCRIPTION				
AB14 Circuit breaker 3 phase with box						
ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS	
1	GZ0017	Circuit Breaker, type SF MCB 3PH 50A 6kA C1, (Including pole mounting enclosure-SPB1)	1	ea		







CU	CU DESCRIPTION
AB18_95AL	Tee off-LV bare_alumin to fused ABC 95

ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	AB6024	Eyebolt - 16 dia x 350 mm long with nut	1	ea	
2	CC0100	Strain clamp, 95-150 ABC	1	ea	
3	GS0111	Fuse disconnector (Rated 400A)	1	ea	
3	GS0109	Neutral Block	1	ea	
4	CC0101	Suspension clamp, 95 ABC	4	ea	
5	CB3055	Transformer harness support bracket	2	ea	
5	N/A	Bandit Strap (19 mm) (not included in CU)	-	N/A	Truck item
6	CJ0494	Splice 95 ABC with Al tail	4	ea	
7	CC0138	Parallel-groove clamp Al-Al	4	ea	
8	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	
9	GF1096	200 Amps fuse link	3	ea	

CU	CU DESCRIPTION
AB18_95CU	Tee off-LV bare_copper to fused ABC 95

ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	AB6024	Eyebolt - 16 dia x 350 mm long with nut	1	ea	
2	CC0100	Strain clamp, 95-150 ABC	1	ea	
3	GS0111	Fuse disconnector (Rated 400A)	1	ea	
3	GS0109	Neutral Block	1	ea	
4	CC0101	Suspension clamp, 95 ABC	4	ea	
5	CB3055	Transformer harness support bracket	2	ea	
5	N/A	Bandit Strap (19 mm) (not included in CU)	-	N/A	Truck item
6	CJ0492	Splice 95 ABC with Cu tail	4	ea	
7	CC0130	Parallel-groove clamp Cu-Cu	8	ea	
8	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	
9	GF1096	200 Amps fuse link	3	ea	



CU	CU DESCRIPTION
AB18_150AL	Tee off-LV bare_alumin to fused ABC 150

ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	AB6024	Eyebolt - 16 dia x 350 mm long with nut	1	ea	
2	CC0100	Strain clamp, 95-150 ABC	1	ea	
3	GS0111	Fuse disconnector (Rated 400A)	1	ea	
3	GS0109	Neutral Block	1	ea	
4	CC0110	Suspension clamp, 150 ABC	4	ea	
5	CB3055	Transformer harness support bracket	2	ea	
5	N/A	Bandit Strap (19 mm) (not included in CU)	-	N/A	Truck item
6	CJ0496	Splice 150 ABC with Al tail	4	ea	
7	CC0138	Parallel-groove clamp Al-Al	4	ea	
8	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	
9	GF1101	315 Amps fuse link	3	ea	

CU	CU DESCRIPTION
AB18_150CU	Tee off-LV bare_copper to fused ABC 150

ITEM Number	STOCK NUMBER	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	AB6024	Eyebolt - 16 dia x 350 mm long with nut	1	ea	
2	CC0100	Strain clamp, 95-150 ABC	1	ea	
3	GS0111	Fuse disconnector (Rated 400A)	1	ea	
3	GS0109	Neutral Block	1	ea	
4	CC0110	Suspension clamp, 150 ABC	4	ea	
5	CB3055	Transformer harness support bracket	2	ea	
5	N/A	Bandit Strap (19 mm) (not included in CU)	-	N/A	Truck item
6	CJ0493	Splice 150 ABC with Cu tail	4	ea	
7	CC0130	Parallel-groove clamp Cu-Cu	8	ea	
8	AB6733	Pole bolt M16 x 400 mm long with nut and washers	2	ea	
9	GF1101	315 Amps fuse link	3	ea	



APPENDIX A - REVISION INFORMATION

(Informative) Horizon Power has endeavoured to provide standards of the highest quality and would appreciate notification if any errors are found or even queries raised.

Each Standard makes use of its own comment sheet which is maintained throughout the life of the standard, which lists all comments made by stakeholders regarding the standard.

The document **DM# 2303931** can be used to record any errors or queries found in or pertaining to this standard, which can then be addressed whenever the standard gets reviewed.

Date	Rev No.	Notes
	0	Western Power Supplied
01/07/2009	1	Original Horizon Power issue
11/01/2012	2	Changes to Document Control
17/09/2013	3	Changes to Document Control and Drawings
21/01/2014	4	Change to Document format
14/09/2018	5	Update Stock number changes for AB3, AB4, AB5, AB6, AB18 FSDO options added for AB4. AB18 added. Band-it strap added to catalogue only for reference. Stock item descriptions updated for consistency
23/06/2020	6	AB3_95 List updated: Added CC0101 and AB4600. AB3_150 List updated: Added CC0110 and AB4600. AB13 Drawing updated with box.
29/08/2022	7	No Update required