


## SAM600-CT wiring example

The schematics is applicable to the following products  
 SAM600\*1.2-CT-DA-A: SAM600-CT (1A)  
 SAM600\*1.2-CT-DA-B: SAM600-CT (5A)

Based on 1KHL511670-A				Prepared	2016-05-13	Schnyder	Title	SAM600-CT wiring example		Doc. kind.	Circuit diagram		Ref.Des.	=Dn +BCn	
A	Release for Documentation	2016-05-13	Schnyder	Approved	2020-05-18	Meier	Title page			DCC EFS		C		en	
B	Release for Documentation II	2016-06-28	Schnyder	Project SAM600 1.2 wiring example		PGGA-AE				C		Language		en	
C	Release for Documentation III	2020-05-18	Tavernier			en				en		en		1	
Rev.	Revision note	Date	Name					Doc. no.		1KHL511912		No.sheets		8	



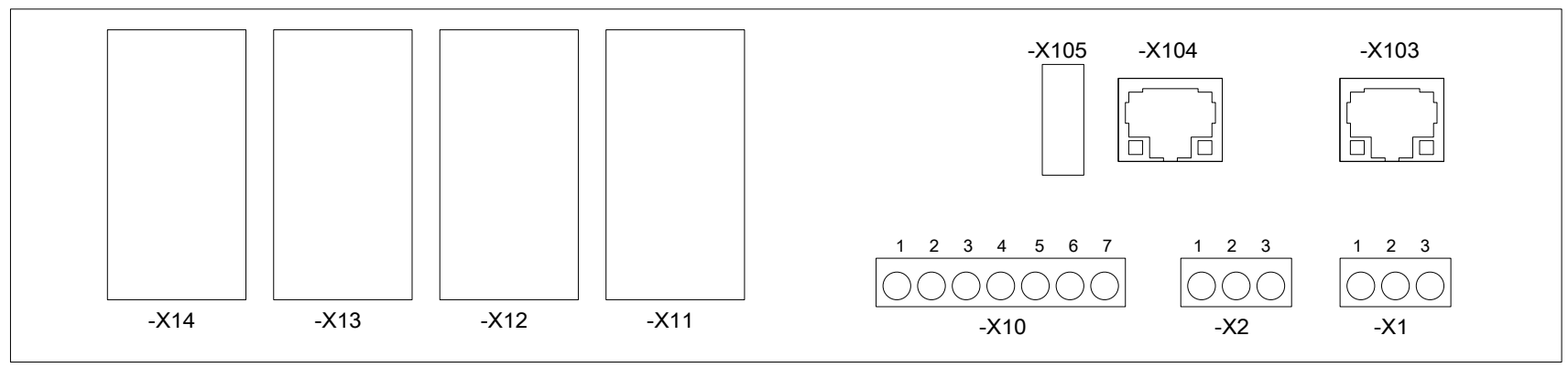
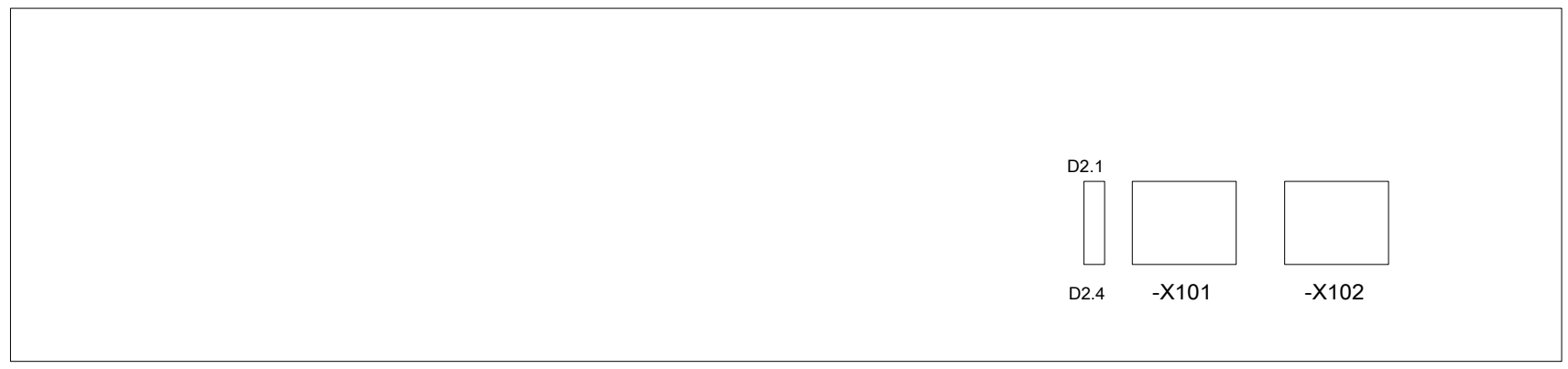
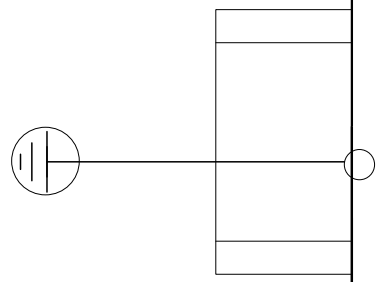
© Copyright 2020 ABB  
We reserve all rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express authority is strictly forbidden.  
Print: 2020-05-19

**-D1**

**ABB**

**SAM600**

- Ready
- Warning
- Alarm

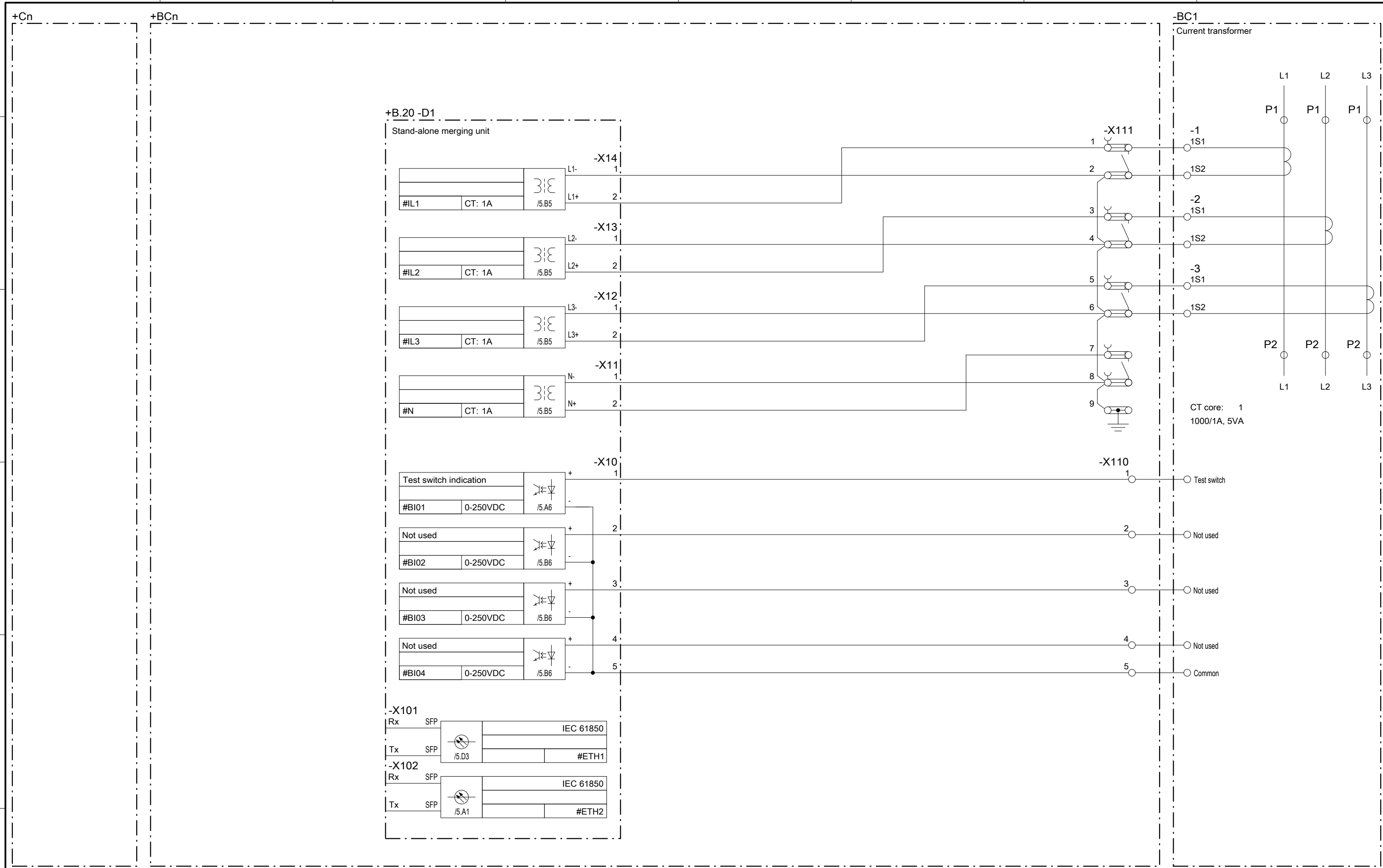


Based on 1KHL511670-A			
A	Release for Documentation	2016-05-13	Schnyder
B	Release for Documentation II	2016-06-28	Schnyder
C	Release for Documentation III	2020-05-18	Tavernier
Rev.	Revision note	Date	Name

Prepared	2016-05-13	Schnyder
Approved	2020-05-18	Meier
Project	SAM600 1.2 wiring example	

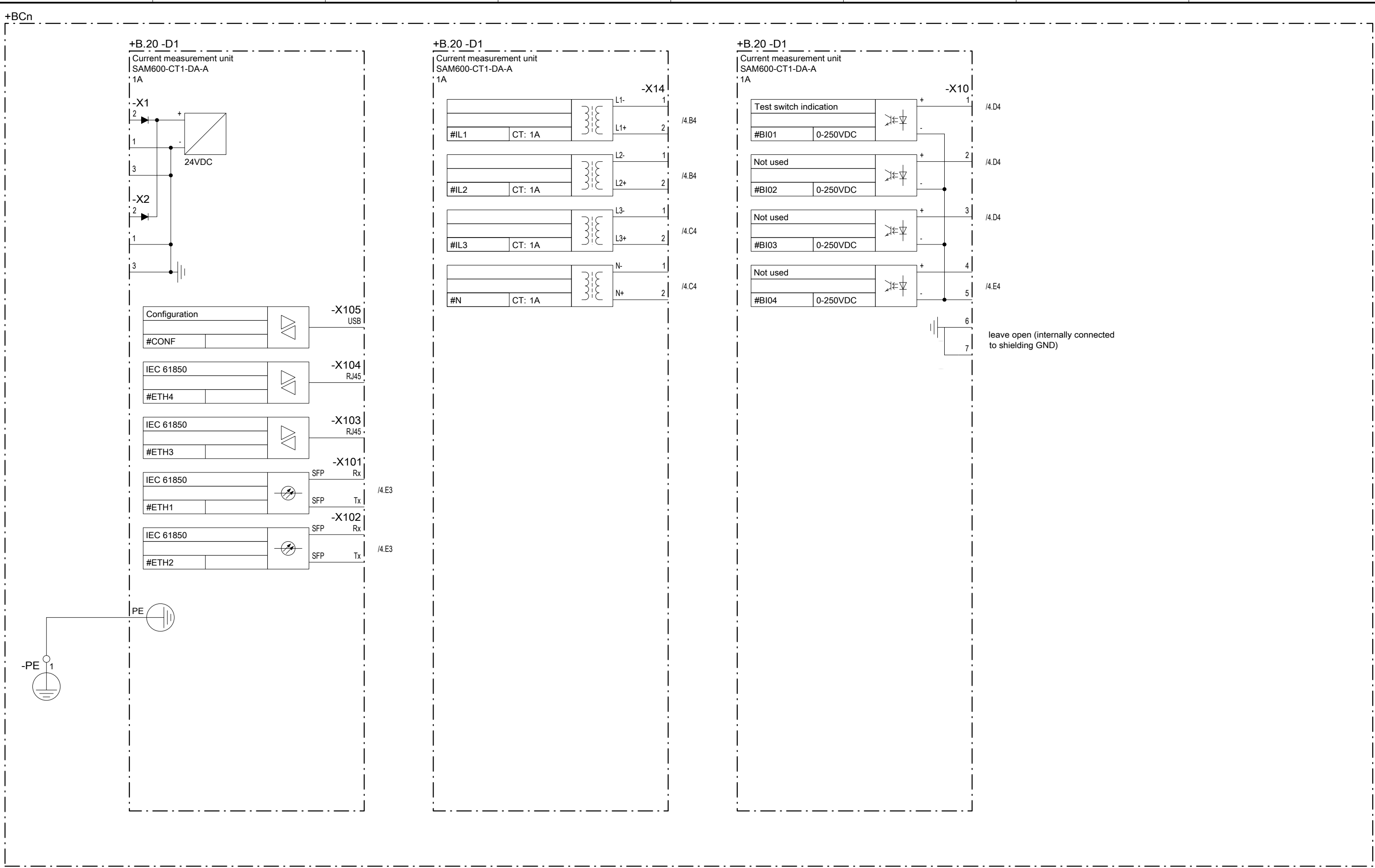
Title	SAM600-CT wiring example
Layout	Top view
<b>ABB</b>	

Doc. kind.	Assembly drawing	Ref.Des.	=Dn +BCn
	DCC ELU		
Resp. dept.	PGGA-AE	Rev. ind.	C
		Language	en
Doc. no.	1KHL511912	Sheet	3
		n. sheet	4



Based on 1KHL511670-A				Prepared 2016-05-13	Schnyder	Title SAM600-CT wiring example	Doc. kind. Circuit diagram	Ref.Des. =Dn
A	Release for Documentation	2016-05-13	Schnyder	Approved 2020-05-18	Meier	Current transformer	DCC EFS	
B	Release for Documentation II	2016-06-28	Schnyder	Project SAM600 1.2		BC1	Resp. dept. PGGA-AE	Rev. ind. C
C	Release for Documentation III	2020-05-18	Tavernier	wiring example		<b>ABB</b>	1KHL511912	Language en
Rev.	Revision note	Date	Name					Sheet 4
							n. sheet 5	

© Copyright 2020 ABB  
Print: 2020-05-19  
We reserve all rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express authority is strictly forbidden.




Based on 1KHL511670-A			Prepared 2016-05-13	Schnyder	Title SAM600-CT wiring example	Doc. kind. Circuit diagram	Ref.Des. =Dn
A	Release for Documentation	2016-05-13	Schnyder	Approved 2020-05-18	Meier	DCC EFS	
B	Release for Documentation II	2016-06-28	Schnyder	Project SAM600 1.2		Resp. dept. PGGA-AE	Rev. ind. C
C	Release for Documentation III	2020-05-18	Tavernier	wiring example			Language en
Rev.	Revision note	Date	Name				Sheet 5
							n. sheet 6



Doc. no. 1KHL511912

Pos.	Location	Device designation	Device description	Type designation	Technical data	Remark	Article number	Manufacturer	Manufacturer number	Qty.	Document / sheet
1		-D1	Current measurement unit	SAM600-CT1-DA-A	1A	4 CT inputs, 4 binary inputs	1KHL160061R1001H	ABB	SAM600*1.2-CT-DA-A	1	3,4,5
2		-X110	Disconnect terminal End bracket Cover	ST 2.5-MT Clipfix 35 D-ST 2.5-MT	400V, 16A	0.08-2.5mm <sup>2</sup> , max 2 wires, grey	1KHF405028P0001 GZN 590043P0008 1KHF405028P0051	Phoenix Contact Phoenix Contact Phoenix Contact	3036343 3022218 3030488	5 1 1	4
3		-X111	Transducer terminal Feed-through terminal Terminal (PE) End bracket Cover Test socket strip Test socket strip Test socket strip Test socket strip Bracket switch bar	STME 6 STMED 6 STMED 6-PE Clipfix 35 D-DTME 6 PAI-4-FIX BK PAI-4-FIX BU PAI-4-FIX RD PAI-4-FIX YE SB-ME 2-8	500V, 30A 500V, 30A	0.2-6mm <sup>2</sup> , max 2 wires, grey 0.2-6mm <sup>2</sup> , max 2 wires, grey 0.2-6mm <sup>2</sup> , max 2 wires, grey  BK BU RD YE 2 pole, right side mounting	1KHF405028P0038 1KHF405028P0039 1KHF405028P0040 GZN 590043P0008 1KHF405028P0083 1KHF405028P0165 1KHF405028P0166 1KHF405028P0167 1KHF405028P0162 1KHF405028P0142	Phoenix Contact Phoenix Contact Phoenix Contact Phoenix Contact Phoenix Contact Phoenix Contact Phoenix Contact Phoenix Contact Phoenix Contact Phoenix Contact	3035700 3035713 3035726 3022218 3034426 3032774 3032729 3032732 3032745 3034468	4 4 1 2 1 1 1 1 1 4	4 4 4 4 4 4 4 4 4 4

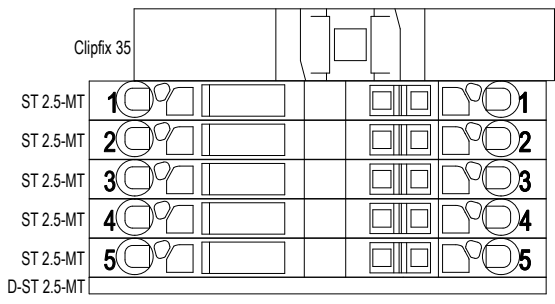


Based on 1KHL511670-A				Prepared	2016-05-13	Schnyder	Title	SAM600-CT wiring example		Doc. kind.	Parts list		Ref.Des.	=Dn
A	Release for Documentation	2016-05-13	Schnyder	Approved	2020-05-18	Meier	=Dn+BCn.B.20		DCC EPB		+BCn.B.20			
B	Release for Documentation II	2016-06-28	Schnyder	Project SAM600 1.2 wiring example		PGGA-AE			Rev. ind.	C	Language	en		
C	Release for Documentation III	2020-05-18	Tavernier					ABB		1KHL511912		Sheet	6	
Rev.	Revision note	Date	Name	Doc. no.	7									

=Dn  
+BCn.B.20  
**-X110**

Target Internal	
Device designation	Pin
=Dn +BCn.B.20 -D1	-X10:1
=Dn +BCn.B.20 -D1	-X10:2
=Dn +BCn.B.20 -D1	-X10:3
=Dn +BCn.B.20 -D1	-X10:4
=Dn +BCn.B.20 -D1	-X10:5

Terminal strip



Target External		Cable designations	Cable type	Placement in schematics	Signal
Device designation	Pin				
				/4.D7	Test switch
				/4.D7	Not used
				/4.D7	Not used
				/4.E7	Not used
				/4.E7	Common

Based on 1KHL511670-A				Prepared	2016-05-13	Schnyder
A	Release for Documentation	2016-05-13	Schnyder	Approved	2020-05-18	Meier
B	Release for Documentation II	2016-06-28	Schnyder	Project	SAM600 1.2	wiring example
C	Release for Documentation III	2020-05-18	Tavernier			
Rev.	Revision note	Date	Name			

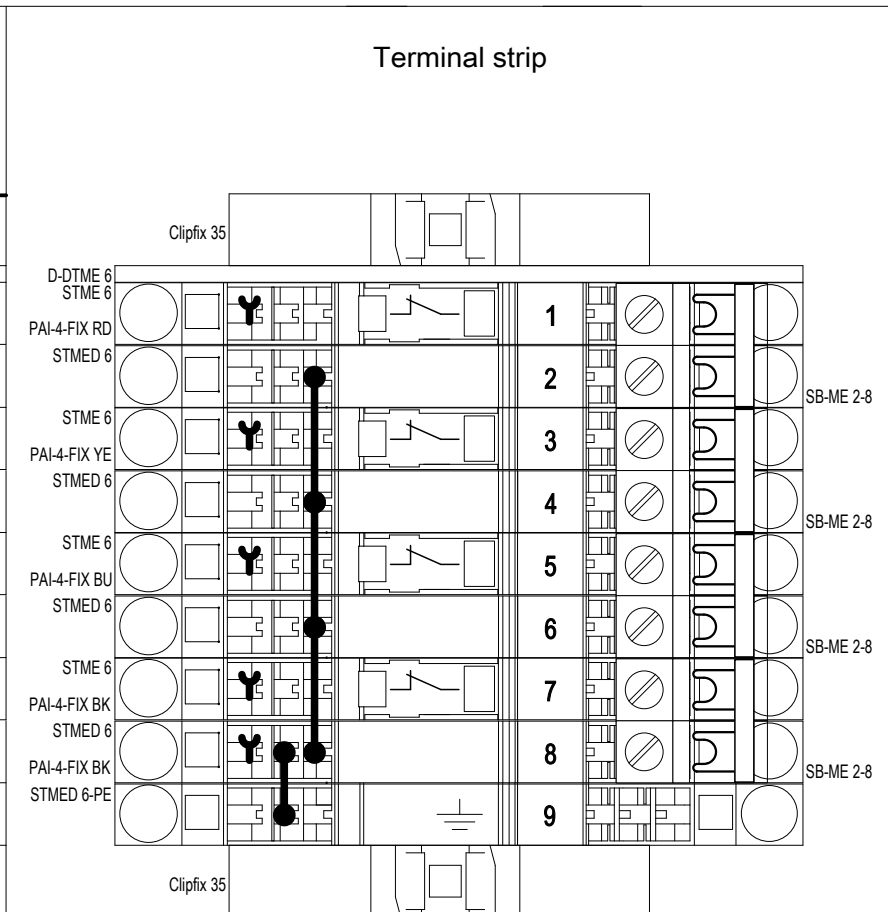
Title	SAM600-CT wiring example
	Terminal table
	-X110
<b>ABB</b>	

Doc. kind.	DCC EMA	Ref.Des.	=Dn +BCn.B.20
Resp. dept.	PGGA-AE	Rev. ind.	C
<b>1KHL511912</b>		Language	en
		Doc. no.	1KHL511912

Sheet	7
n. sheet	8

=Dn  
+BCn.B.20  
**-X111**

Target Internal	
Device designation	Pin
=Dn +BCn.B.20 -D1	-X14:2
=Dn +BCn.B.20 -D1	-X14:1
=Dn +BCn.B.20 -D1	-X13:2
=Dn +BCn.B.20 -D1	-X13:1
=Dn +BCn.B.20 -D1	-X12:2
=Dn +BCn.B.20 -D1	-X12:1
=Dn +BCn.B.20 -D1	-X11:2
=Dn +BCn.B.20 -D1	-X11:1



Target External		Cable designations	Placement in schematics	Signal
Device designation	Pin			
=Dn -BC1.1	:1S1		/4.B7	CT_L1
=Dn -BC1.1	:1S2		/4.B7	CT_N
=Dn -BC1.2	:1S1		/4.B7	CT_L2
=Dn -BC1.2	:1S2		/4.B7	CT_N
=Dn -BC1.3	:1S1		/4.B7	CT_L3
=Dn -BC1.3	:1S2		/4.C7	CT_N
			/4.C7	CT_L4
			/4.C7	CT_N
			/4.C7	CT_N

Based on 1KHL511670-A			
A	Release for Documentation	2016-05-13	Schnyder
B	Release for Documentation II	2016-06-28	Schnyder
C	Release for Documentation III	2020-05-18	Tavernier
Rev.	Revision note	Date	Name

Prepared	2016-05-13	Schnyder
Approved	2020-05-18	Meier
Project	SAM600 1.2 wiring example	

Title	SAM600-CT wiring example Terminal table -X111
<b>ABB</b>	

Doc. kind.	DCC EMA	Ref.Des.	=Dn +BCn.B.20
Resp. dept.	PGGA-AE	Rev. ind.	C
1KHL511912		Language	en
		Sheet	8
Doc. no.			n. sheet