

The information in this document is subject to change without notice and should not be construed as a commitment by ABB. ABB assumes no responsibility for any errors that may appear in this document.

Except as may be expressly stated anywhere in this document, nothing herein shall be construed as any kind of guarantee or warranty by ABB for losses, damages to persons or property, fitness for a specific purpose or the like.

In no event shall ABB be liable for incidental or consequential damages arising from use of this document.

This document and parts thereof must not be reproduced or copied without ABB's written permission, and contents thereof must not be imparted to a third party nor be used for any unauthorized purpose. Contravention will be prosecuted.

Additional copies of this document may be obtained from ABB at its then current charge.

© Copyright 2015 ABB ALL right reserved.

ABB AB

SE-721 68 Västerås  
Sweden

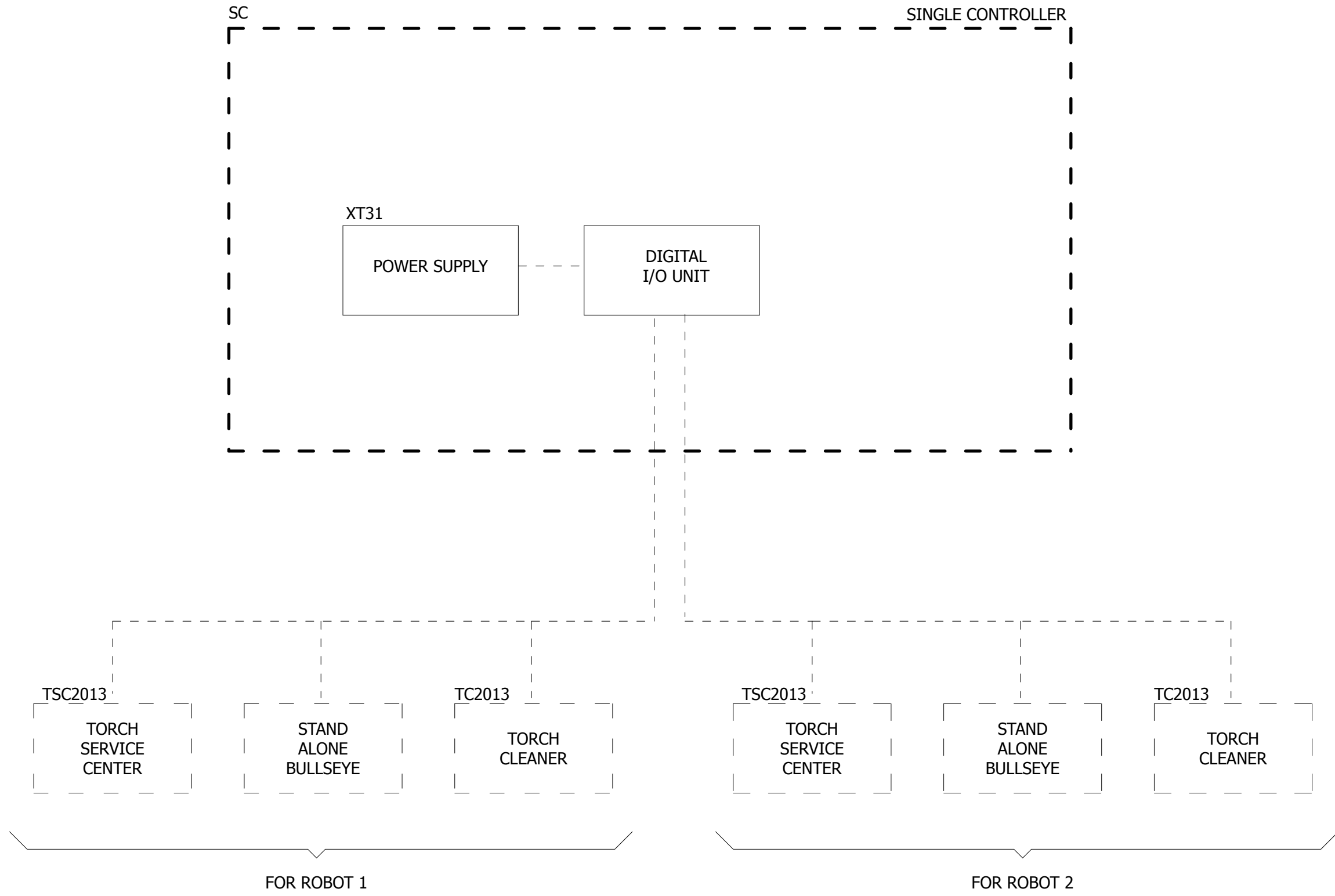
We reserve all rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express authority is strictly forbidden. © Copyright 2003 ABB

Latest revision: 2015			Lab/Office: PRMW	PROCESS OPT. TORCH EQUIPMENT COPYRIGHT PAGE	Status: Approved	Plant: = Location: + Sublocation: +	Document no. 3HEA802382-001	Rev. Ind 02	Page 1 Next 2 Total 19
Prepared by, date: PRE/MB, 2015-11-30	Approved by, date: PRE/PC, 2015-11-30								





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. © Copyright 2003, ABB



Latest revision:  
2015  
Rev 02: Updated with TC2013

Prepared by, date: PRE/MB, 2015-11-30 | Approved by, date: PRE/PC, 2015-11-30

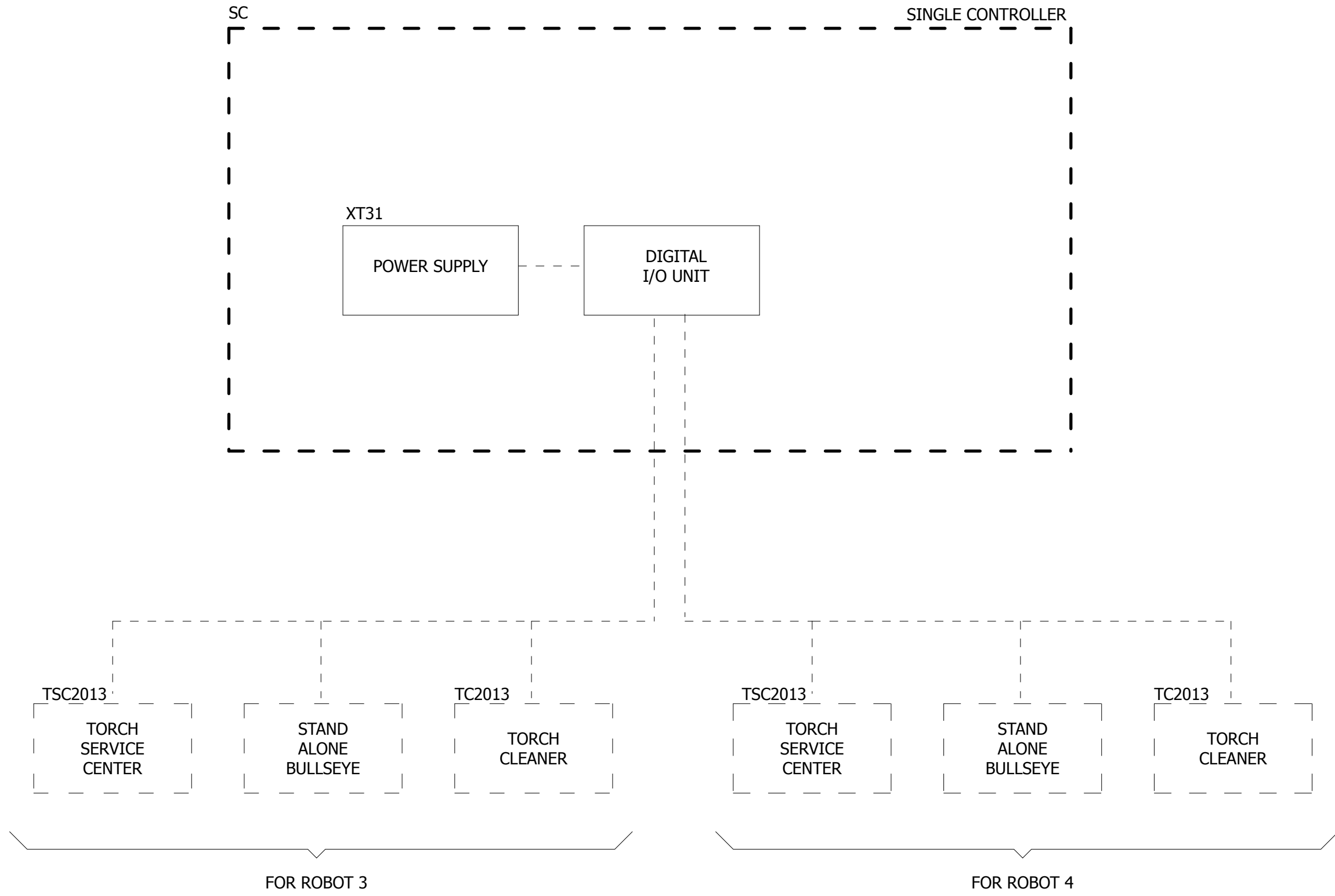


Lab/Office:  
PRMW

PROCESS OPT. TORCH EQUIPMENT  
BLOCK DIAGRAM

Status: Approved	Plant: = Location: + Sublocation: +	Rev. Ind 02	Page 4 Next 5 Total 19
Document no. 3HEA802382-001			

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. © Copyright 2003, ABB



Latest revision:  
2015  
Rev 02: Added Robot 3 and Robot 4

Prepared by, date: PRE/MB, 2015-11-30 | Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

PROCESS OPT. TORCH EQUIPMENT  
BLOCK DIAGRAM

Status:  
Approved

Plant: =  
Location: +  
Sublocation: +

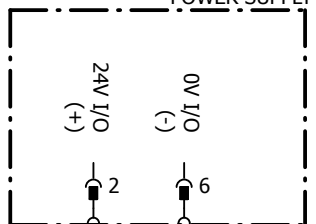
Document no.  
**3HEA802382-001**

Rev. Ind  
**02**

Page 5  
Next 6  
Total 19

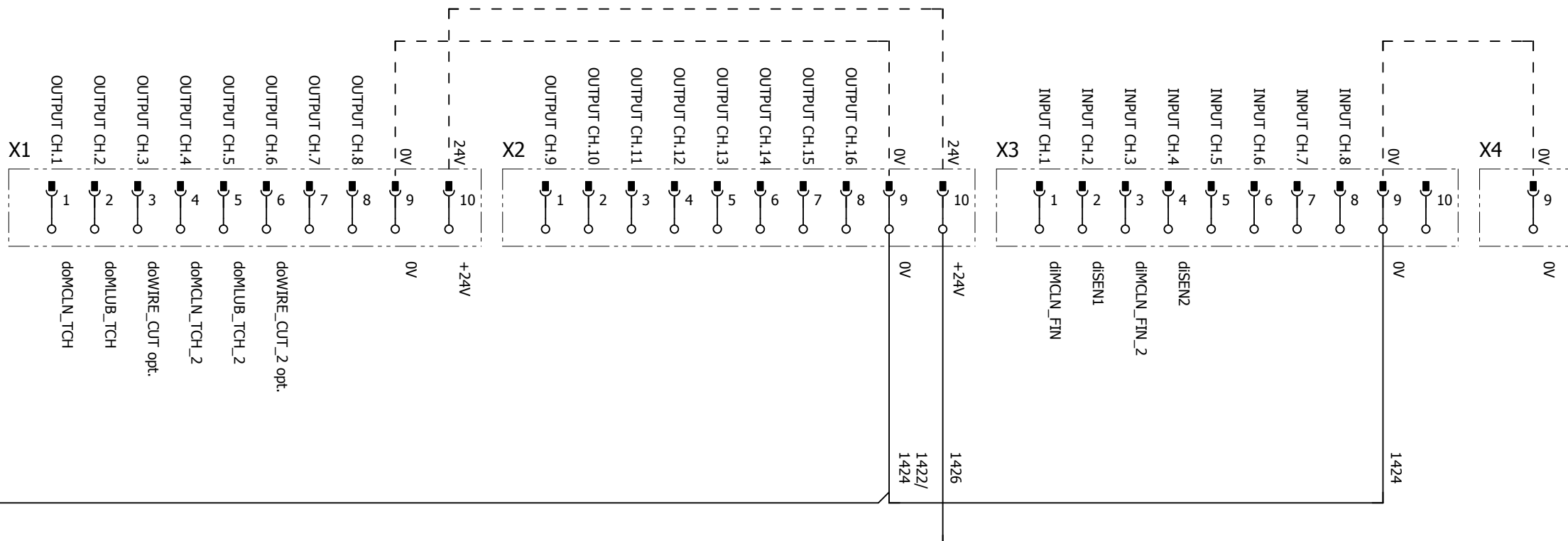
SEE EL.DWGS FOR THE IRC5 CONTROLLER

XT31 POWER SUPPLY



I/O 5

DIGITAL I/O UNIT



PROCESS OPTIONS:

- SH. 6 TORCH CLEANER, TSC ROBOT1
- SH. 7 TORCH CLEANER, TSC ROBOT2
- SH. 10 STAND ALONE BULLSEYE ROBOT1
- SH. 11 STAND ALONE BULLSEYE ROBOT2
- SH. 14 TORCH CLEANER, TC2013 ROBOT1
- SH. 15 TORCH CLEANER, TC2013 ROBOT2

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. © Copyright 2003 ABB

Latest revision: 2015	Approved by, date: PRE/PC, 2015-11-30
Rev 02: Updated with TC2013	
Prepared by, date: PRE/MB, 2015-11-30	



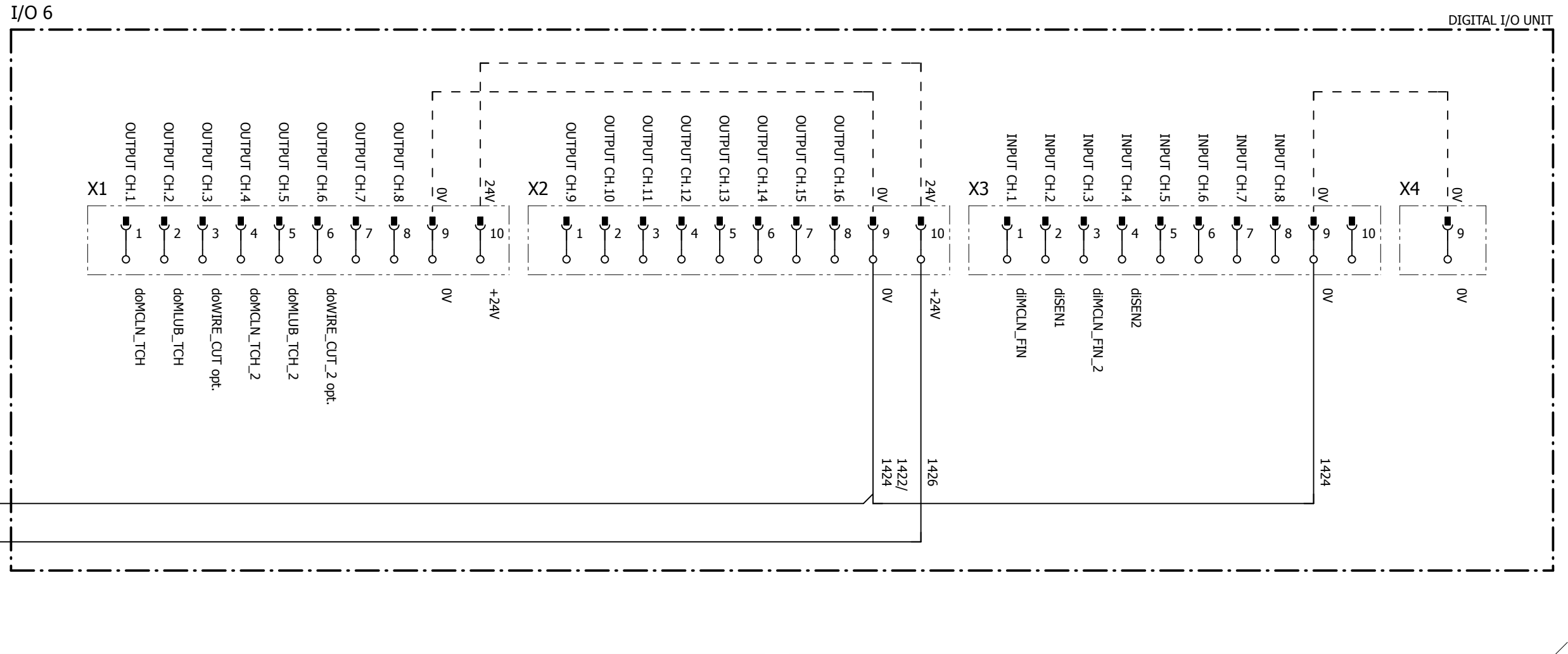
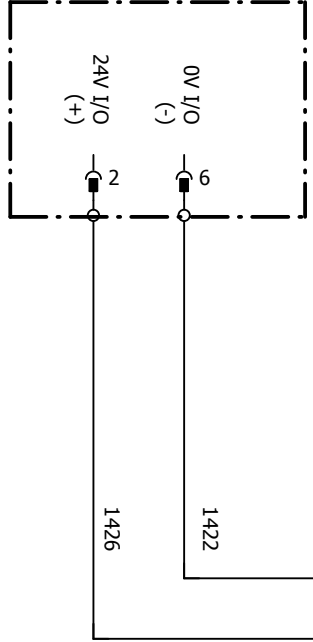
Lab/Office:  
PRMW

PROCESS OPT. TORCH EQUIPMENT  
POWER SUPPLY

Status: Approved	Plant: = Location: + Sublocation: +
Document no. 3HEA802382-001	Rev. Ind 02
	Page 6 Next 7 Total 19

SEE EL.DWGS FOR THE IRC5 CONTROLLER

XT31 POWER SUPPLY



PROCESS OPTIONS:  
 SH. 8 TORCH CLEANER, TSC ROBOT3  
 SH. 9 TORCH CLEANER, TSC ROBOT4  
 SH. 12 STAND ALONE BULLSEYE ROBOT3  
 SH. 13 STAND ALONE BULLSEYE ROBOT4  
 SH. 16 TORCH CLEANER, TC2013 ROBOT3  
 SH. 17 TORCH CLEANER, TC2013 ROBOT4

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. © Copyright 2003 ABB

Latest revision:  
 2015  
 Rev 02: Added I/O 6 for Robot 3 and Robot 4  
 Prepared by, date: PRE/MB, 2015-11-30    Approved by, date: PRE/PC, 2015-11-30

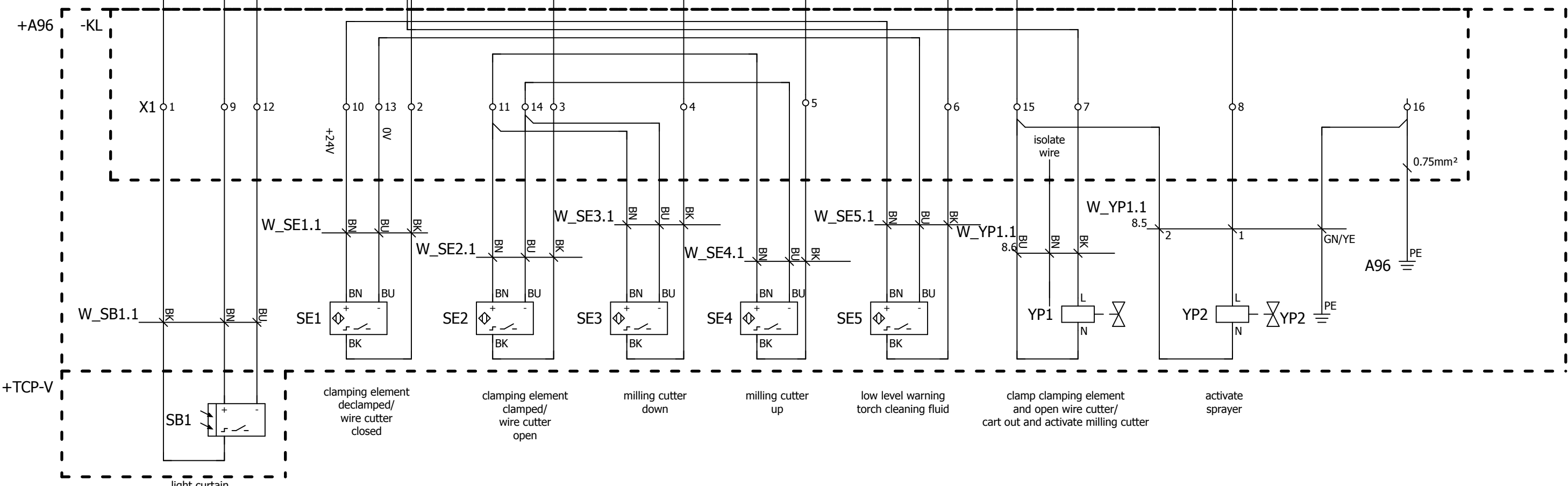
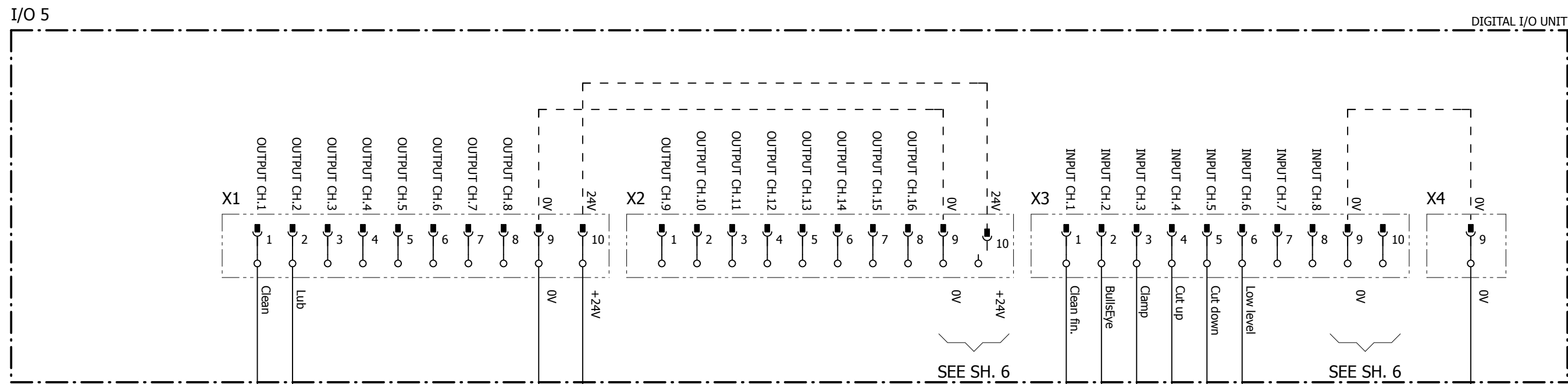


Lab/Office:  
 PRMW

PROCESS OPT. TORCH EQUIPMENT  
 POWER SUPPLY

Status: Approved  
 Plant: =  
 Location: +  
 Sublocation: +  
 Document no. 3HEA802382-001  
 Rev. Ind 02  
 Page 7  
 Next 8  
 Total 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. © Copyright 2003 ABB



TORCH SERVICE CENTER

Latest revision:  
2015  
Rev 02: Updated with TC2013  
Prepared by, date: PRE/MB, 2015-11-30  
Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

PROCESS OPT. TORCH EQUIPMENT  
OPTION TORCH SERVICE CENTER, TSC  
ROBOT1

Status:  
Approved

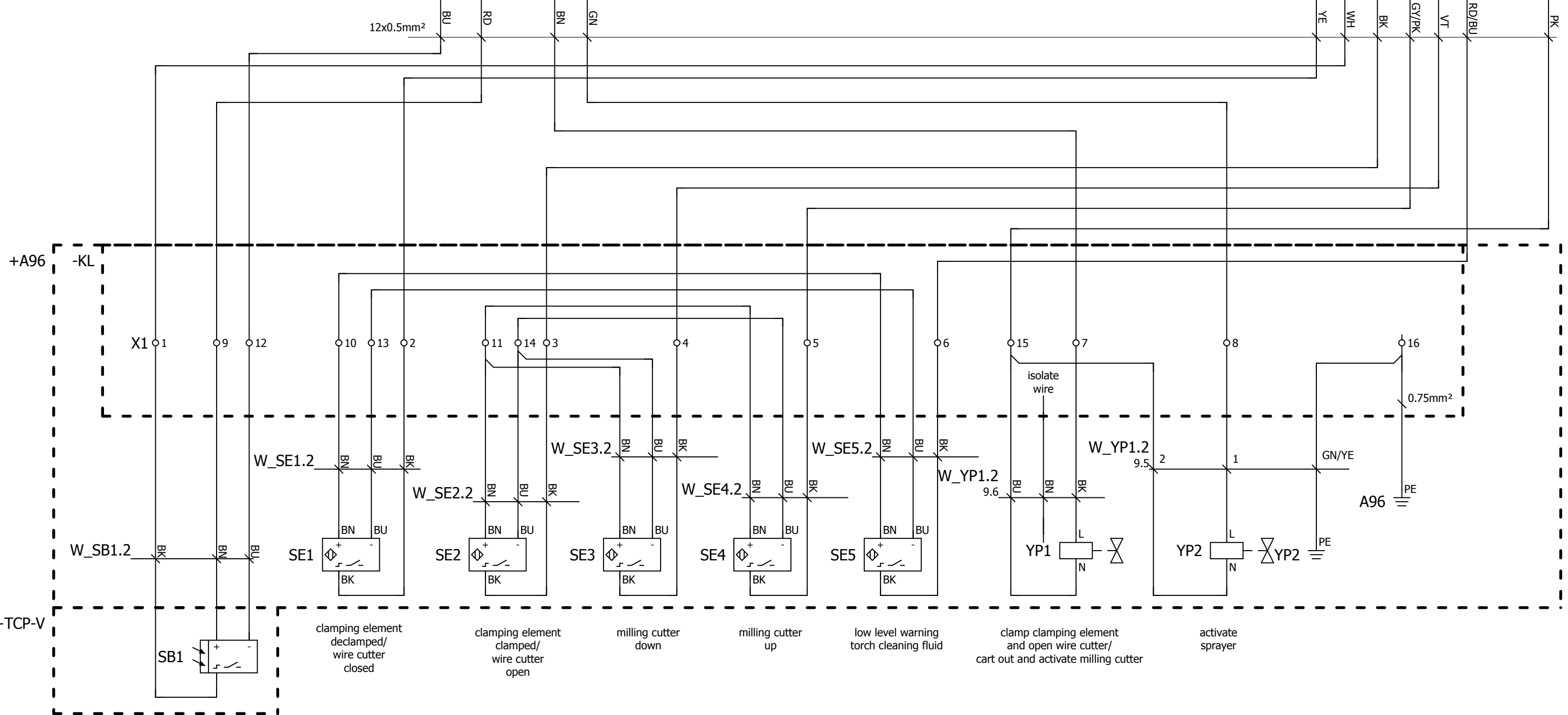
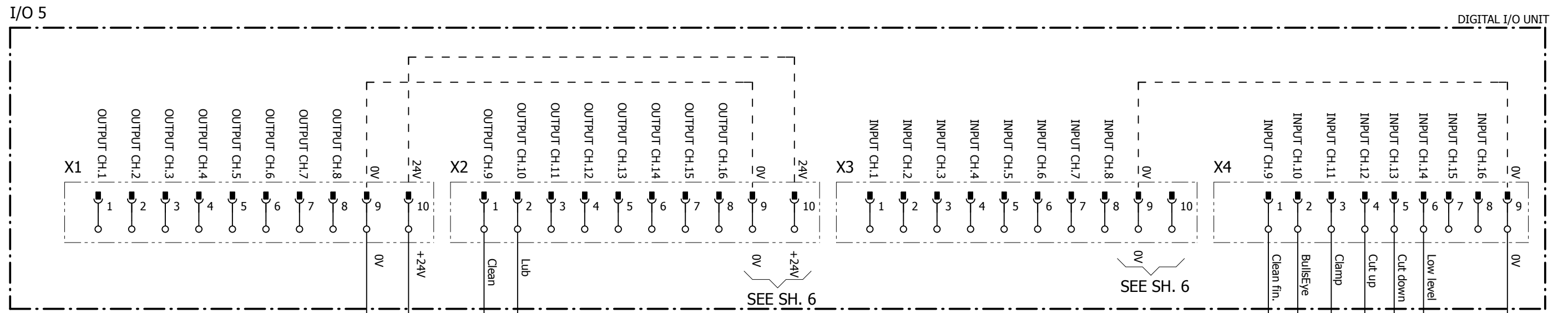
Plant: =  
Location: +  
Sublocation: +

Document no.  
**3HEA802382-001**

Rev. Ind  
**02**  
Page 8  
Next 9  
Total 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. © Copyright 2003 ABB



TORCH SERVICE CENTER

Latest revision: 2015	Prepared by, date: PRE/MB, 2015-11-30
Rev 02: Updated with TC2013	Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

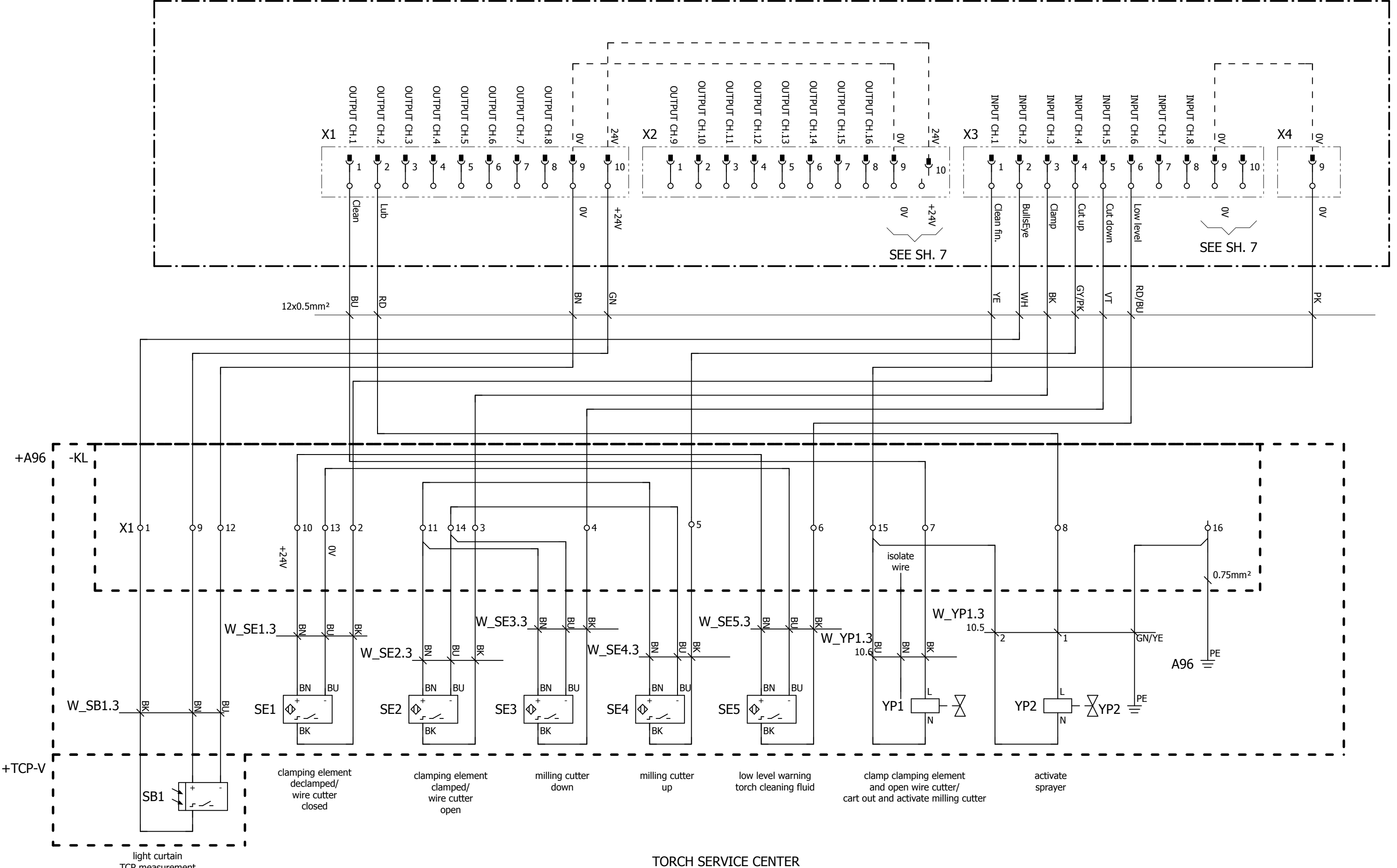
PROCESS OPT. TORCH EQUIPMENT  
OPTION TORCH SERVICE CENTER, TSC  
ROBOT2

Status: Approved	Plant: = Location: + Sublocation: +
Document no. 3HEA802382-001	Rev. Ind 02
	Page 9 Next 10 Total 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. © Copyright 2003 ABB

I/O 6

DIGITAL I/O UNIT



TORCH SERVICE CENTER

Latest revision:  
2015  
Rev 02: Added connections for Robot 3  
Prepared by, date: PRE/MB, 2015-11-30  
Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

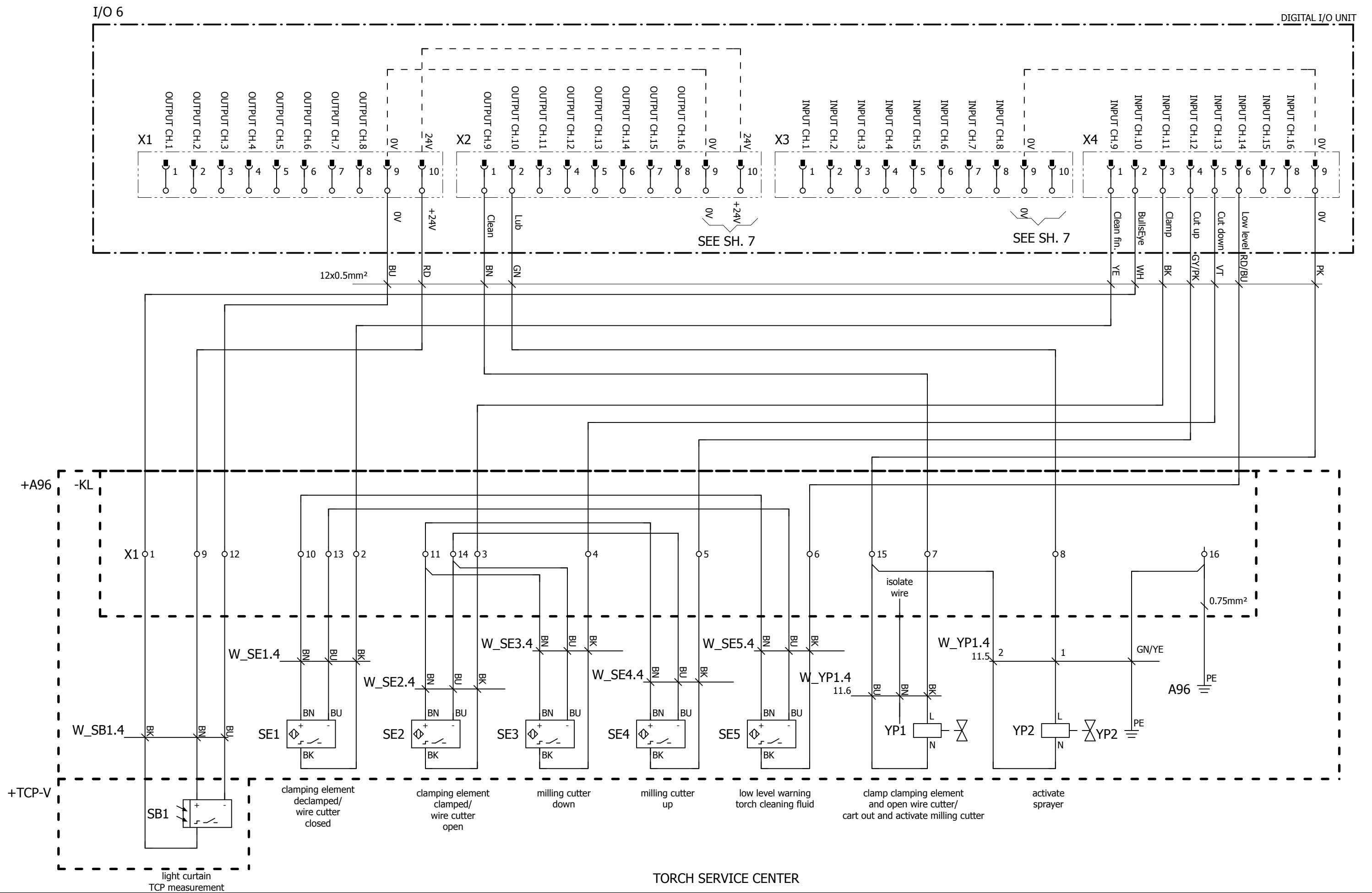
PROCESS OPT. TORCH EQUIPMENT  
OPTION TORCH SERVICE CENTER, TSC  
ROBOT3

Status:  
Approved

Plant: =  
Location: +  
Sublocation: +

Document no. 3HEA802382-001  
Rev. 02  
Page 10  
Next 11  
Total 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. © Copyright 2003 ABB



Latest revision:  
2015  
Rev 02: Added connections for Robot 4  
Prepared by, date: PRE/MB, 2015-11-30  
Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

PROCESS OPT. TORCH EQUIPMENT  
OPTION TORCH SERVICE CENTER, TSC  
ROBOT4

Status:  
Approved

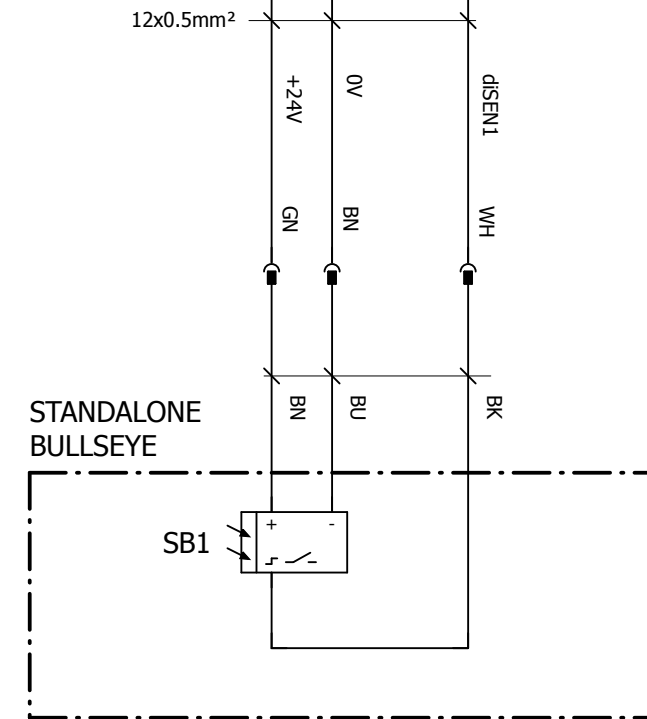
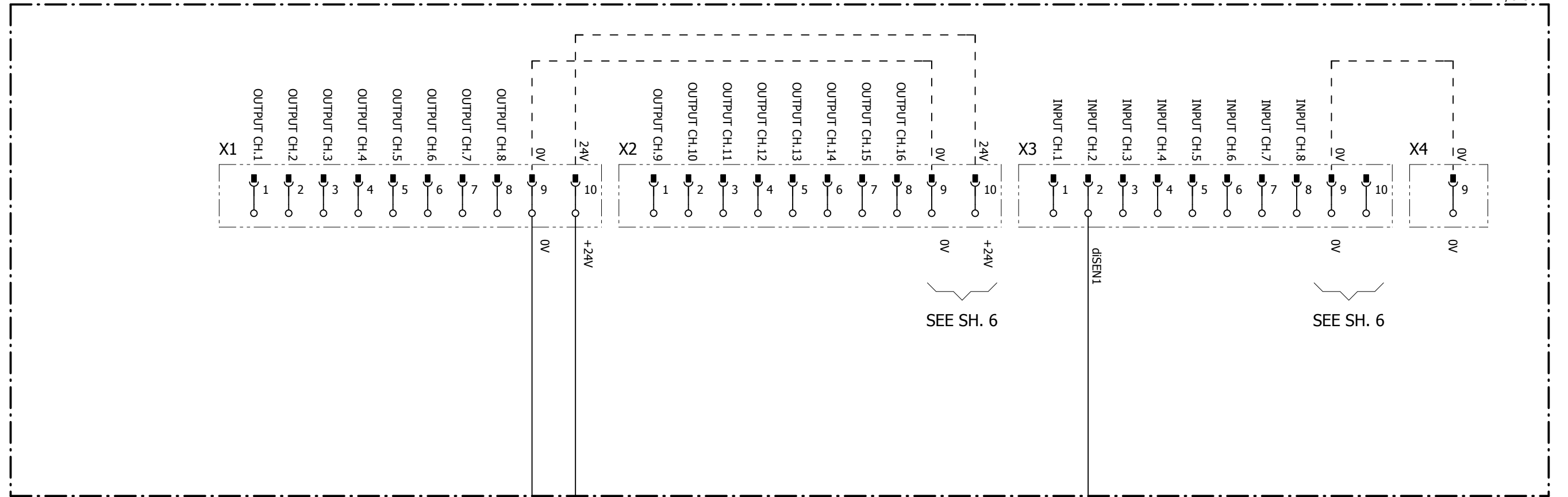
Plant: =  
Location: +  
Sublocation: +

Document no.  
**3HEA802382-001**

Rev. Ind  
**02**  
Page 11  
Next 12  
Total 19

I/O 5

DIGITAL I/O UNIT



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. © Copyright 2003 ABB

Latest revision:  
2015  
Rev 02: Updated with TC2013

Prepared by, date: PRE/MB, 2015-11-30 | Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

PROCESS OPT. TORCH EQUIPMENT  
OPTION BULLSEYE STAND ALONE  
ROBOT 1

Status:  
Approved

Plant: =  
Location: +  
Sublocation: +

Document no.  
**3HEA802382-001**

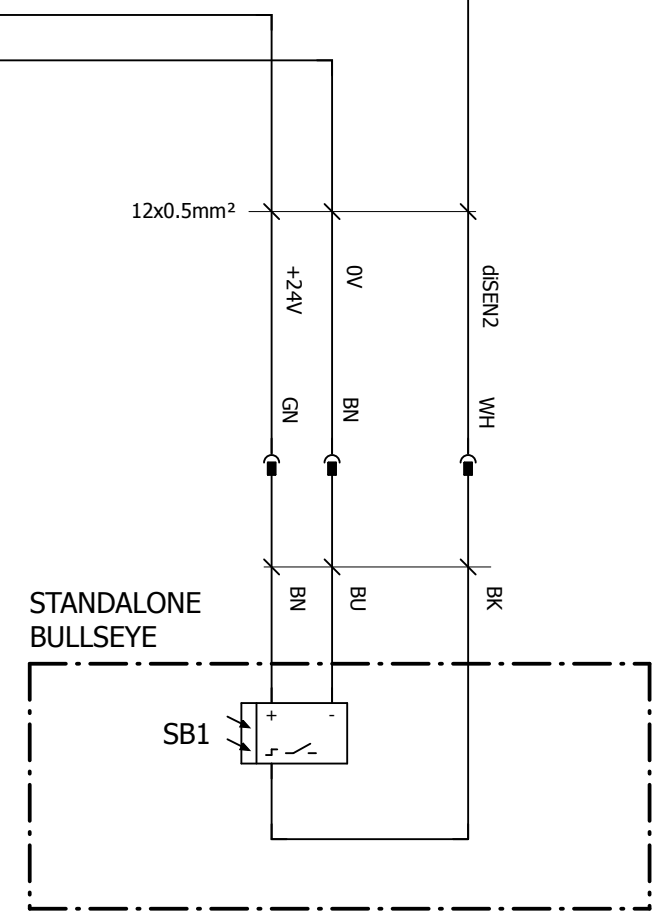
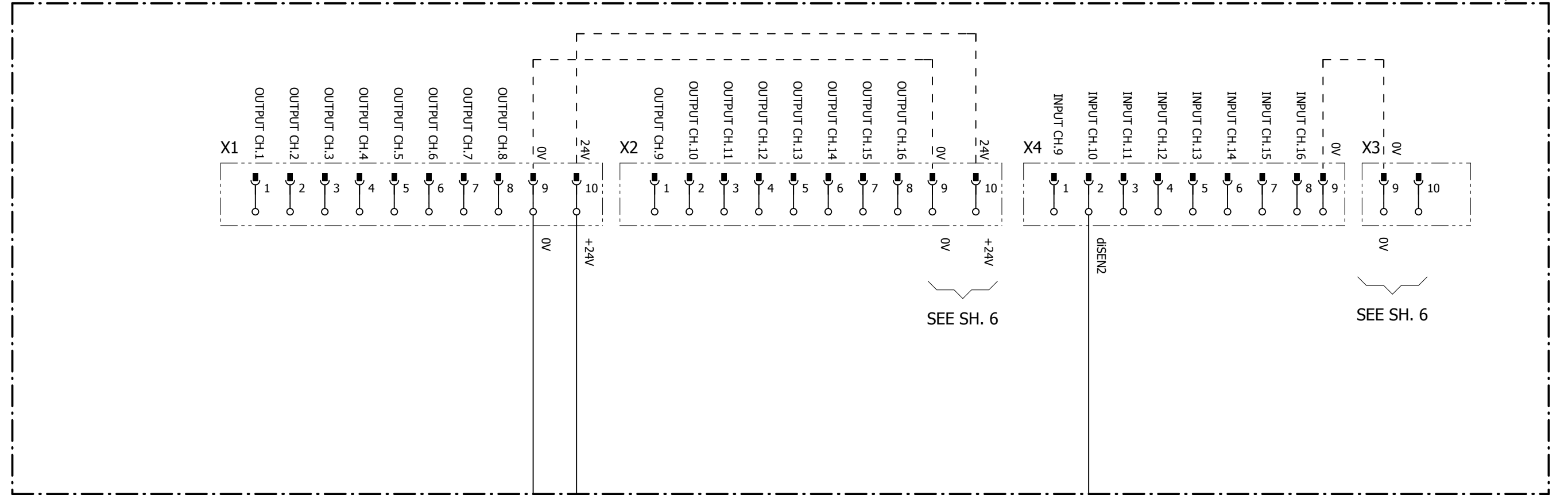
Rev. Ind  
**02**

Page 12  
Next 13  
Total 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. © Copyright 2003 ABB

I/O 5

DIGITAL I/O UNIT



Latest revision:  
2015  
Rev 02: Updated with TC2013  
Prepared by, date: PRE/MB, 2015-11-30 | Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

PROCESS OPT. TORCH EQUIPMENT  
OPTION BULLSEYE STAND ALONE  
ROBOT 2

Status:  
Approved

Plant: =  
Location: +  
Sublocation: +

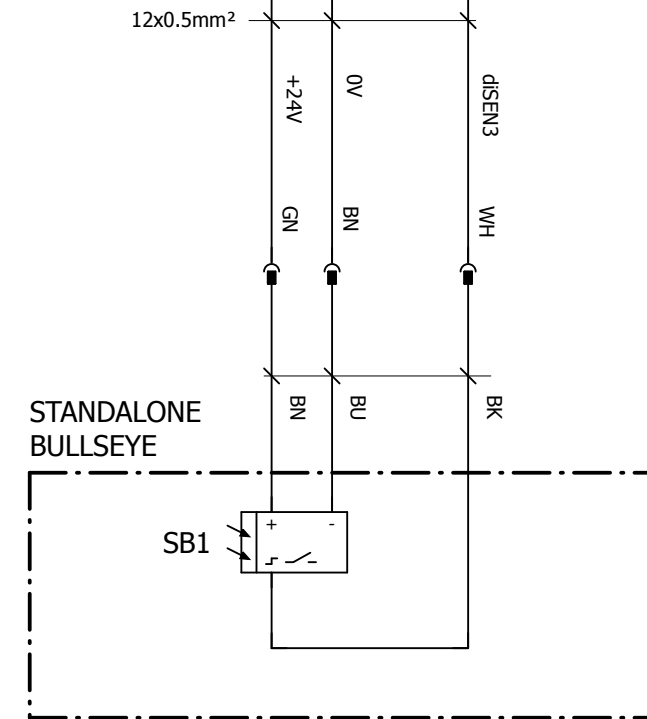
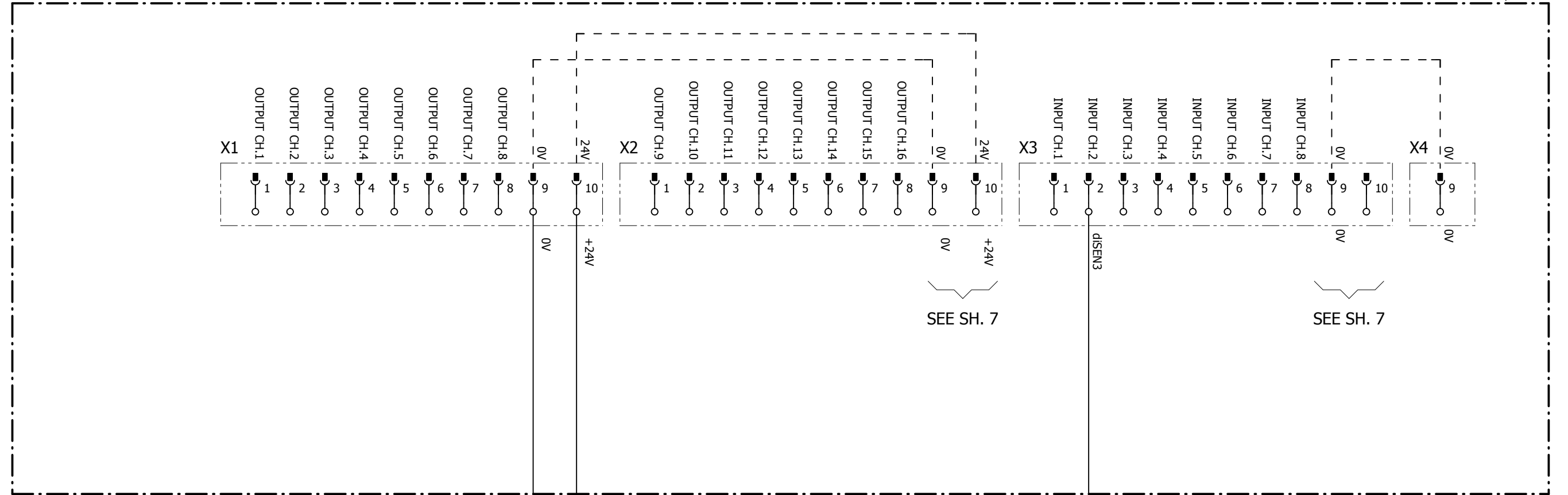
Document no.  
**3HEA802382-001**

Rev. Ind  
**02**  
Page 13  
Next 14  
Total 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. © Copyright 2003 ABB

I/O 6

DIGITAL I/O UNIT



Latest revision:  
2015  
Rev 02: Added connections for Robot 3  
Prepared by, date: PRE/MB, 2015-11-30 | Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

PROCESS OPT. TORCH EQUIPMENT  
OPTION BULLSEYE STAND ALONE  
ROBOT 3

Status:  
Approved

Plant: =  
Location: +  
Sublocation: +

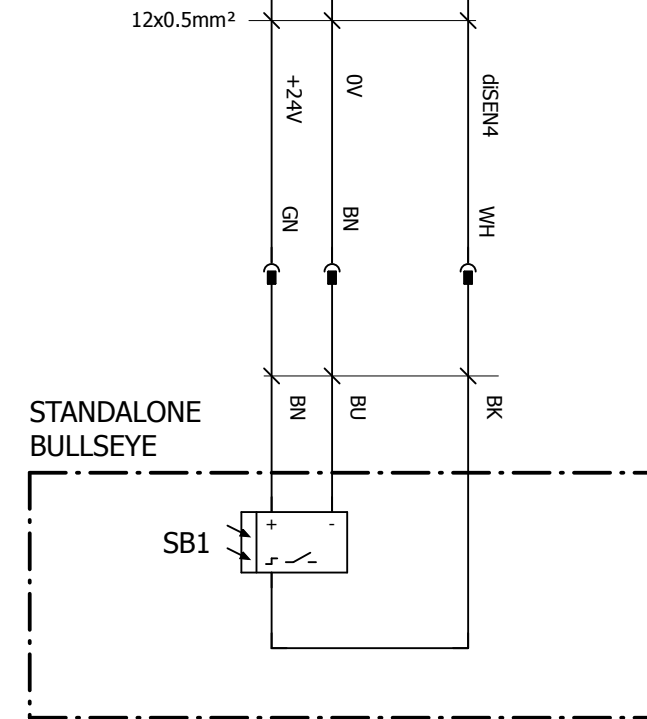
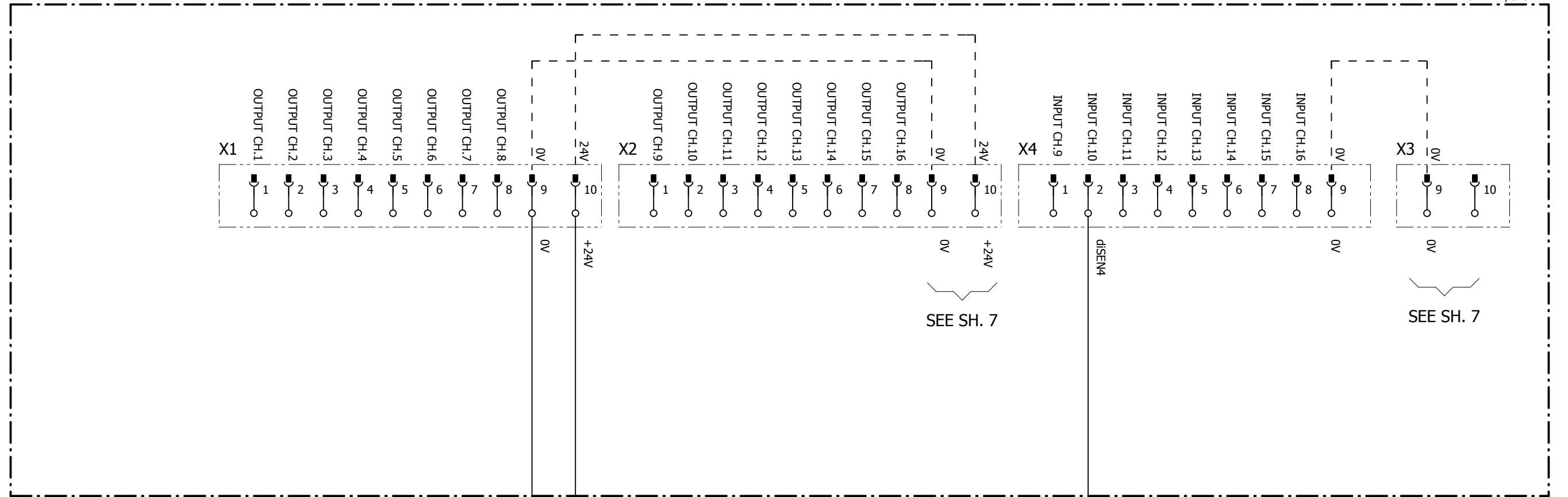
Document no.  
**3HEA802382-001**

Rev. Ind  
**02**  
Page 14  
Next 15  
Total 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. © Copyright 2003 ABB

I/O 6

DIGITAL I/O UNIT



Latest revision:  
2015  
Rev 02: Added connections for Robot 4  
Prepared by, date: PRE/MB, 2015-11-30 | Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

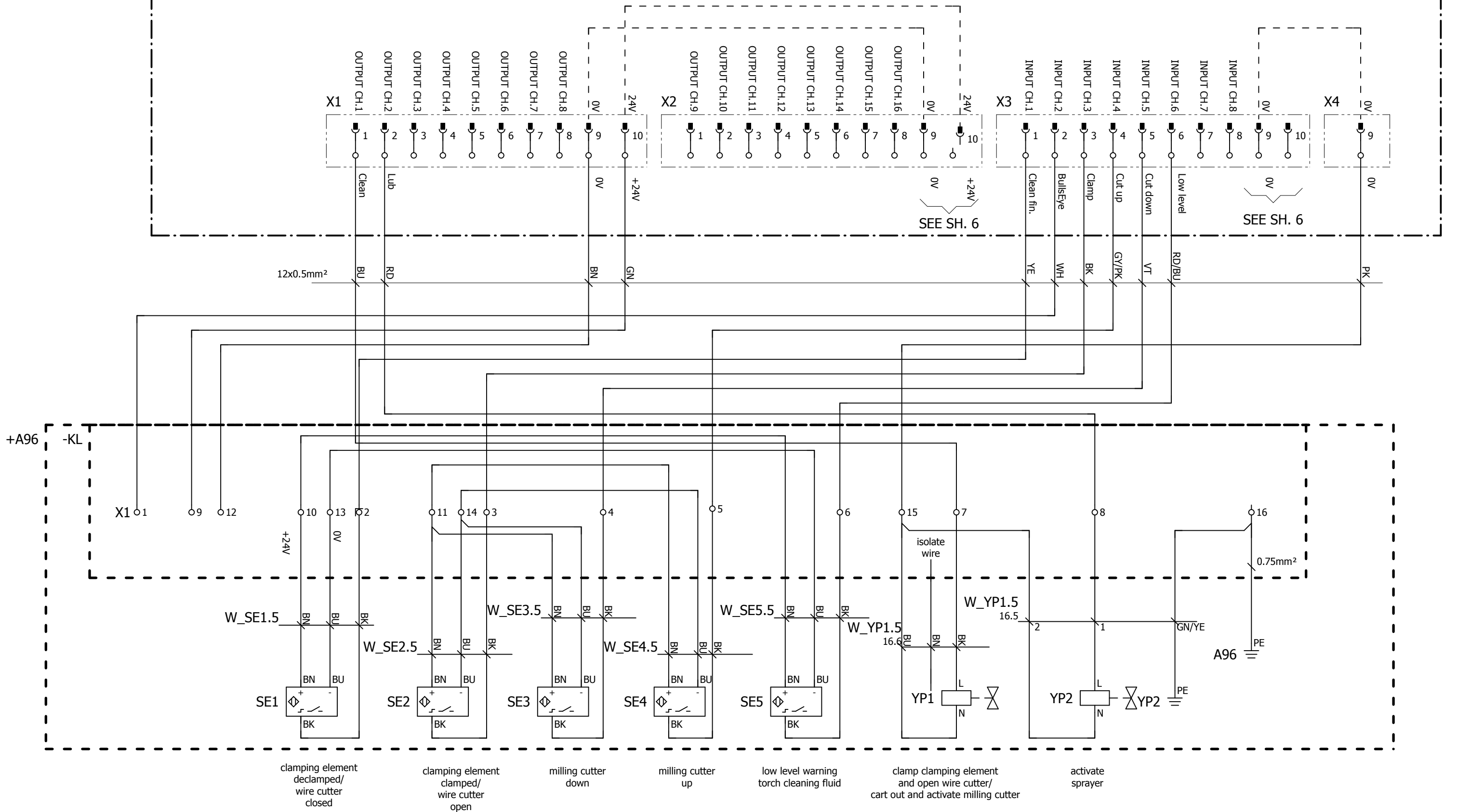
PROCESS OPT. TORCH EQUIPMENT  
OPTION BULLSEYE STAND ALONE  
ROBOT 4

Status: Approved	Plant: = Location: + Sublocation: +
Document no. <b>3HEA802382-001</b>	Rev. Ind <b>02</b>
	Page 15 Next 16 Total 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. © Copyright 2003 ABB

I/O 5

DIGITAL I/O UNIT



TORCH CLEANER TC2013

Latest revision:  
2015  
Rev 02: Updated with TC2013  
Prepared by, date: PRE/MB, 2015-11-30  
Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

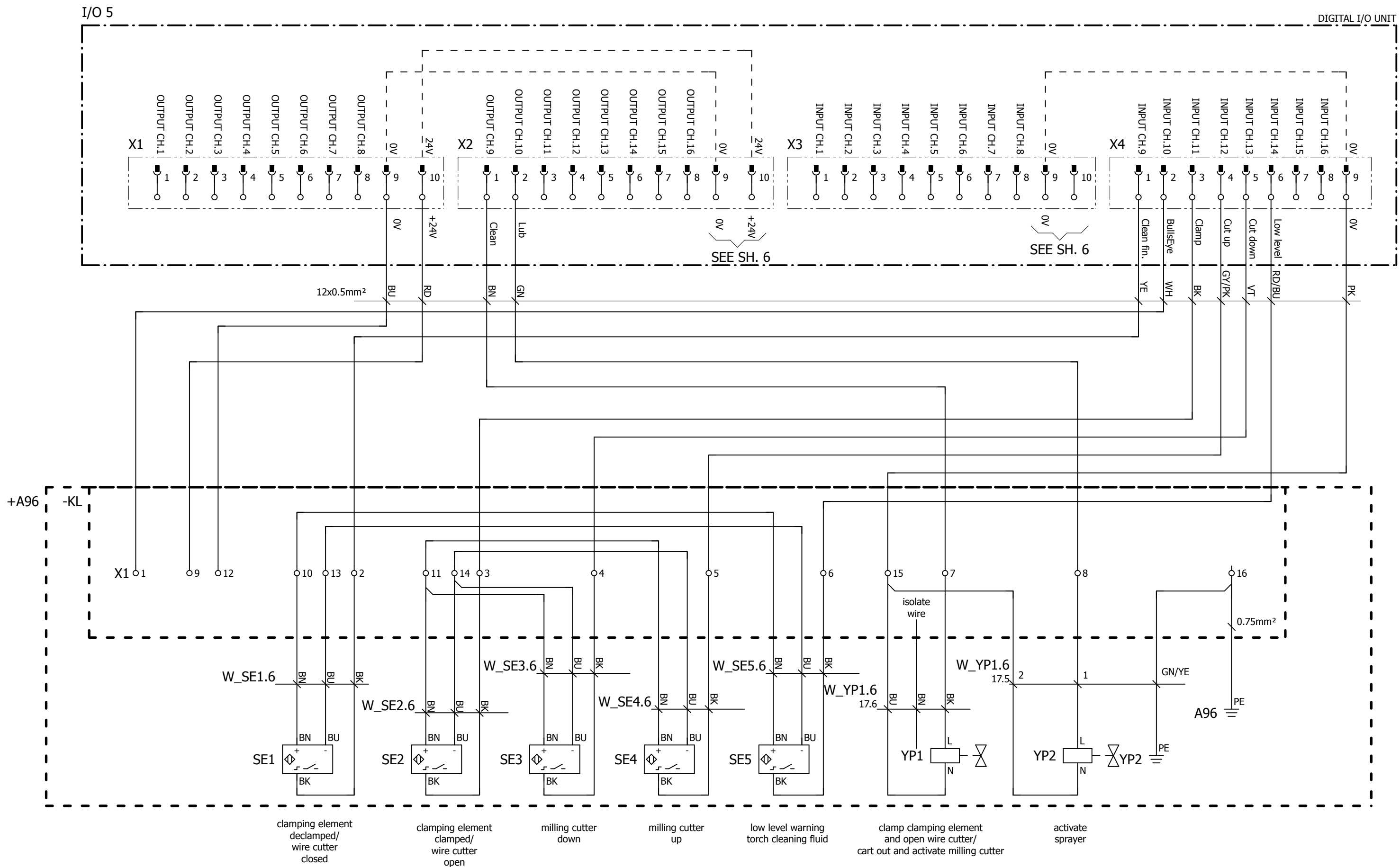
PROCESS OPT. TORCH EQUIPMENT  
OPTION TORCH CLEANER, TC2013  
ROBOT 1

Status: Approved  
Document no. 3HEA802382-001  
Rev. Ind 02  
Page 16  
Next 17  
Total 19

Plant: =  
Location: +  
Sublocation: +



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. © Copyright 2003 ABB



TORCH CLEANER TC2013

Latest revision:  
2015  
Rev 02: Updated with TC2013  
Prepared by, date: PRE/MB, 2015-11-30  
Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

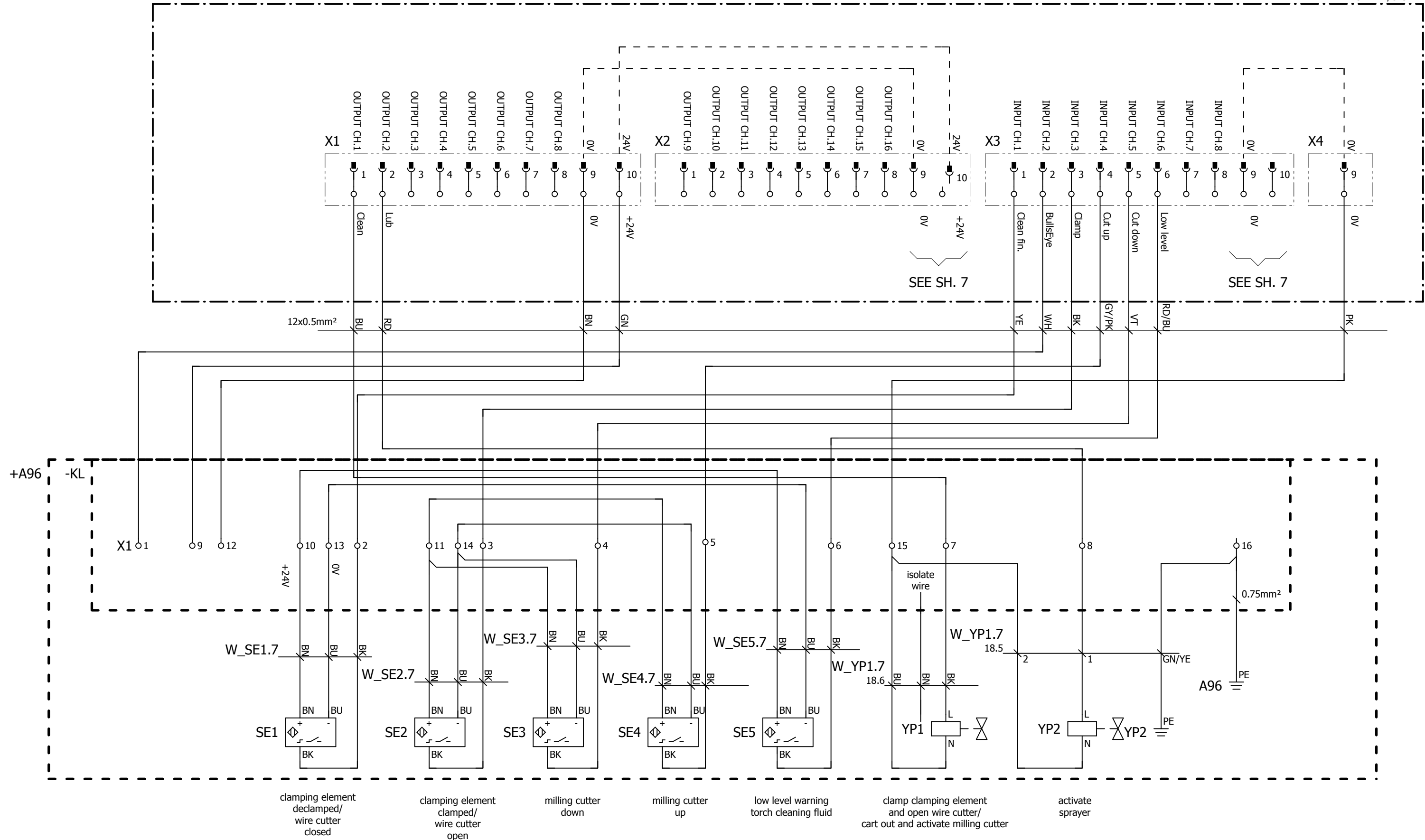
PROCESS OPT. TORCH EQUIPMENT  
OPTION TORCH CLEANER, TC2013  
ROBOT 2

Status: Approved  
Document no. 3HEA802382-001  
Rev. 02  
Plant: =  
Location: +  
Sublocation: +  
Page 17  
Next 18  
Total 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. © Copyright 2003, ABB

I/O 6

DIGITAL I/O UNIT



TORCH CLEANER TC2013

Latest revision:  
2015  
Rev 02: Added connections for Robot 3  
Prepared by, date: PRE/MB, 2015-11-30  
Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

PROCESS OPT. TORCH EQUIPMENT  
OPTION TORCH CLEANER, TC2013  
ROBOT 3

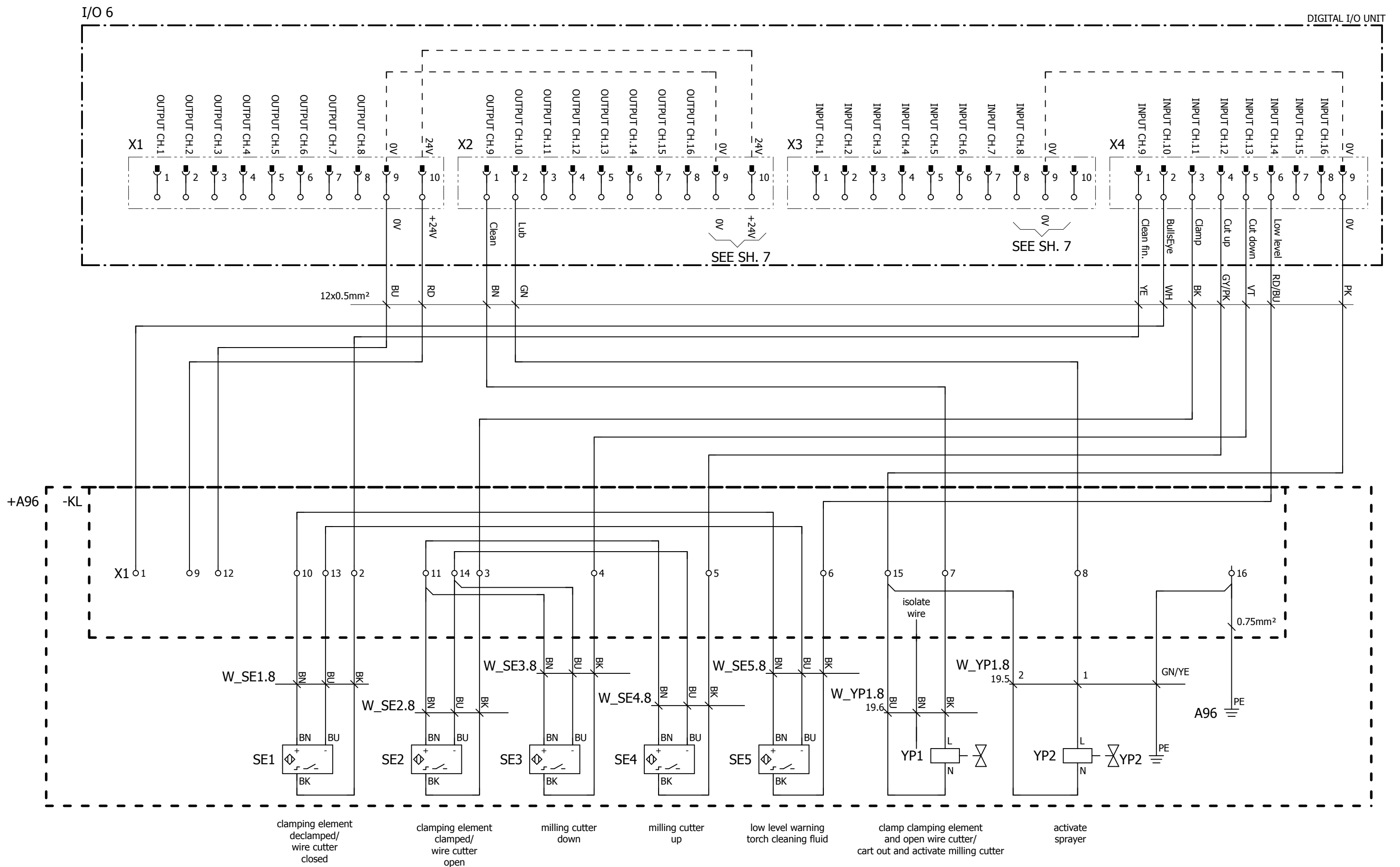
Status:  
Approved

Plant: =  
Location: +  
Sublocation: +

Document no.  
**3HEA802382-001**

Rev. Ind  
**02**  
Page 18  
Next 19  
Total 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. © Copyright 2003 ABB



TORCH CLEANER TC2013

Latest revision:  
2015  
Rev 02: Added connections for Robot 4  
Prepared by, date: PRE/MB, 2015-11-30  
Approved by, date: PRE/PC, 2015-11-30



Lab/Office:  
PRMW

PROCESS OPT. TORCH EQUIPMENT  
OPTION TORCH CLEANER, TC2013  
ROBOT 4

Status:  
Approved

Plant: =  
Location: +  
Sublocation: +

Document no.  
**3HEA802382-001**

Rev. Ind  
**02**  
Page 19  
Next  
Total 19