

1. SYSTEM MAINS SUPPLY RATING

Mains voltage : 2x400V DC
 Control Voltage : 230V at 50Hz
 Short-circuit current Icc : 10 kA

2. STANDARDS

The Silcon Battery Breaker Box is built according to : IEC 439-1

3. ENVIRONMENTS

The assembly is made for an ambient temperature of : Max: +40°C and Min : -5°C

4. ENCLOSURE

The enclosure of the assembly is : IP20 and Form 1
 The assembly material is : Plastic

5. POSITIONING

The assembly is made for indoor installation on: floor
 wall

6. DIMENSIONS AND WEIGHTS

Height : 540 mm
 Width : 540 mm
 Depth : 183 mm
 Weight : 20 kg

7. CABLE ENTRIES

Inlets for UPS:
 Bottom

Outlets for Batteries:
 Top

8. CONNECTIONS

Power Circuits :
 Input Output
 Terminals

Control Circuits :
 Terminals

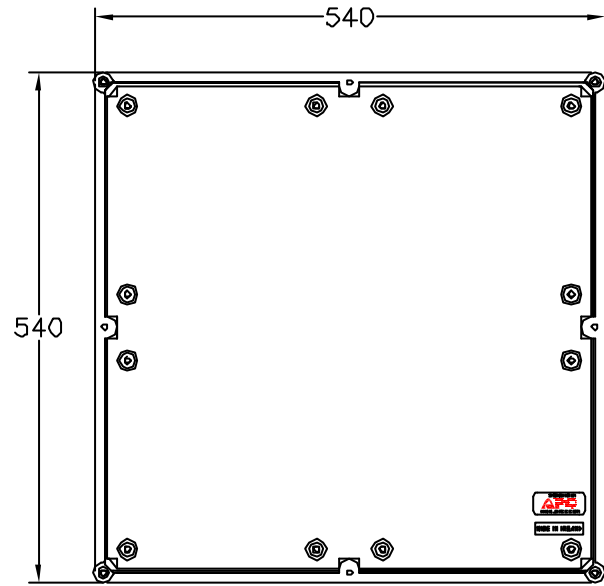
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TITLE:	SILCON 60/80k-W UPS BATTERY BREAKER BOX, SPECIFICATION SHEET 60/80kW, 400V
PROJECT:	SUBMITAL DRAWINGS SHEET 1 OF 8

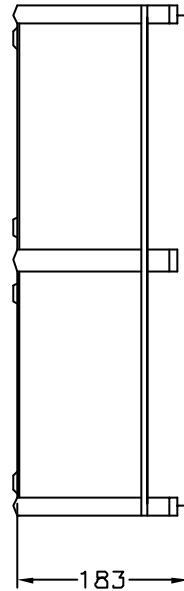
ENG. NO:	SBB60K80H-SP
DRAWN BY:	MZGN 16/12/03
CHECKED BY:	B.WELSEN 15/12/03
ENGINEER:	CLARSI 15/12/03

REV.	-
PROJECTION	

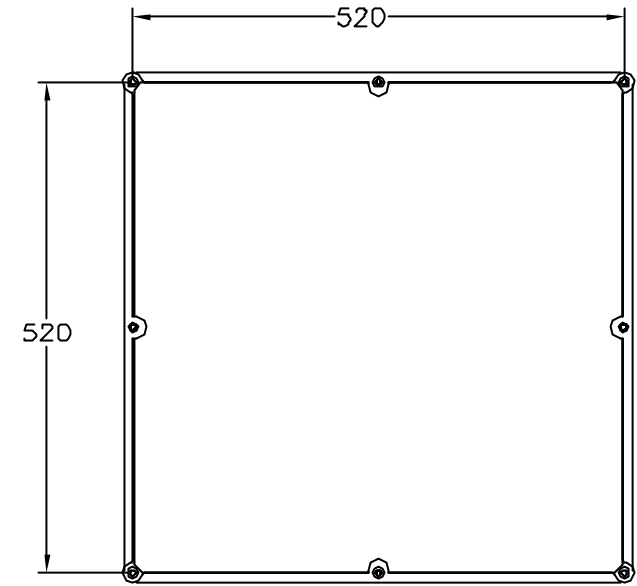




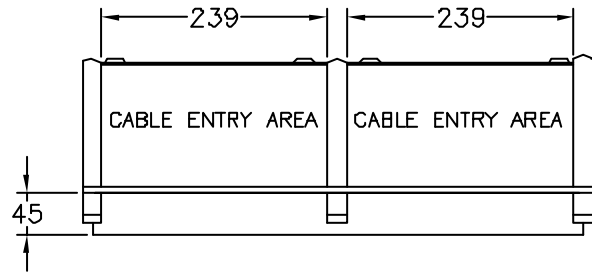
FRONT VIEW



LEFT SIDE VIEW



REAR VIEW
(MOUNTING LOCATIONS OF WALL FIXING LUGS)



TOP VIEW

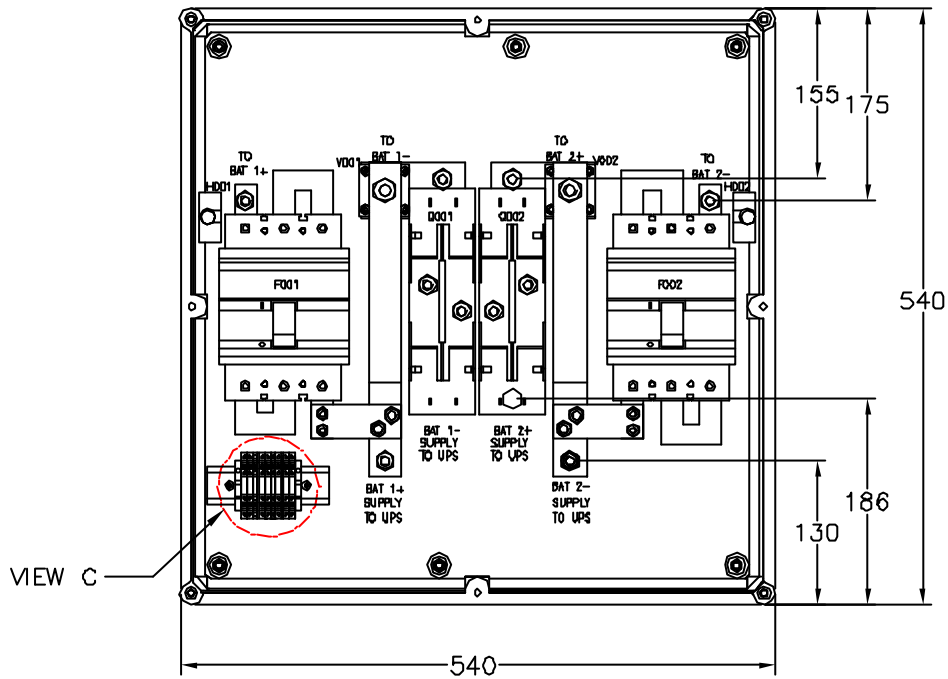
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. MINIMUM SERVICE CLEARANCE IS 700 FRONT.
3. CONDUIT ENTRY IS TOP OR BOTTOM OF UNIT.
4. UNIT WEIGHT IS 20 kg.
5. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL STANDARDS.

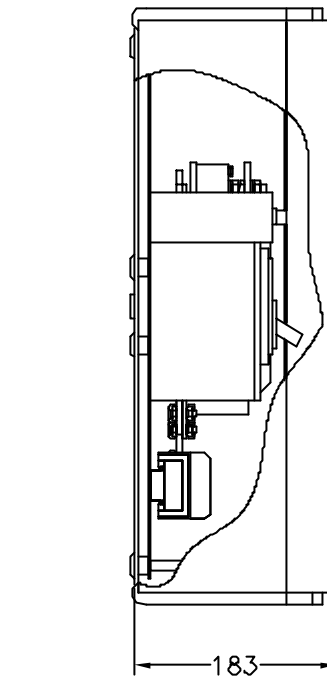
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PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 8	TITLE: SILICON 60/80KW UPS BATTERY BREAKER BOX, MAIN MECHANICAL 60/80kW, 480V	DWG NO: SBB60K80H-MM	REV: -
	DRAWN BY: MZON	06/12/03	PRODUCTION
	CHECKED BY: B.NIELSEN	04/12/03	
	ENGINEER: CLURSEN	04/12/03	

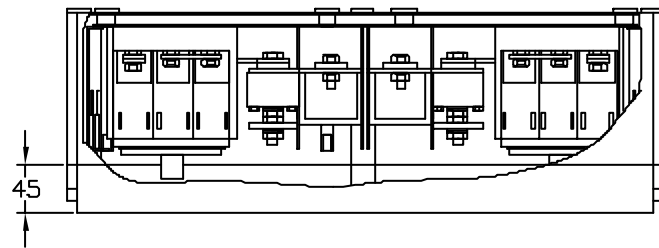




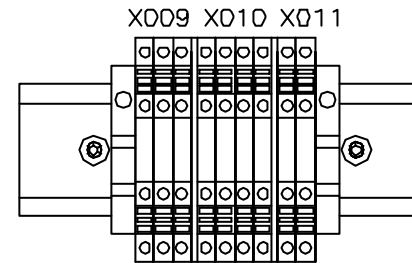
FRONT VIEW
(DOOR AND POLYCARBONATE COVER REMOVED)



LEFT SIDE VIEW
(POLYCARBONATE COVER REMOVED)



TOP VIEW
(POLYCARBONATE COVER REMOVED)



TO UPS
VIEW C (ENLARGED)
CONTROL WIRING

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. BATTERY CABLING VOLTAGE DROP SHOULD NOT EXCEED 1%.
3. CIRCUIT BREAKERS F001,F002 ARE 125 AMP.
4. WIRING CONFIGURATION SHOWN IS FOR REFERENCE ONLY.
5. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.

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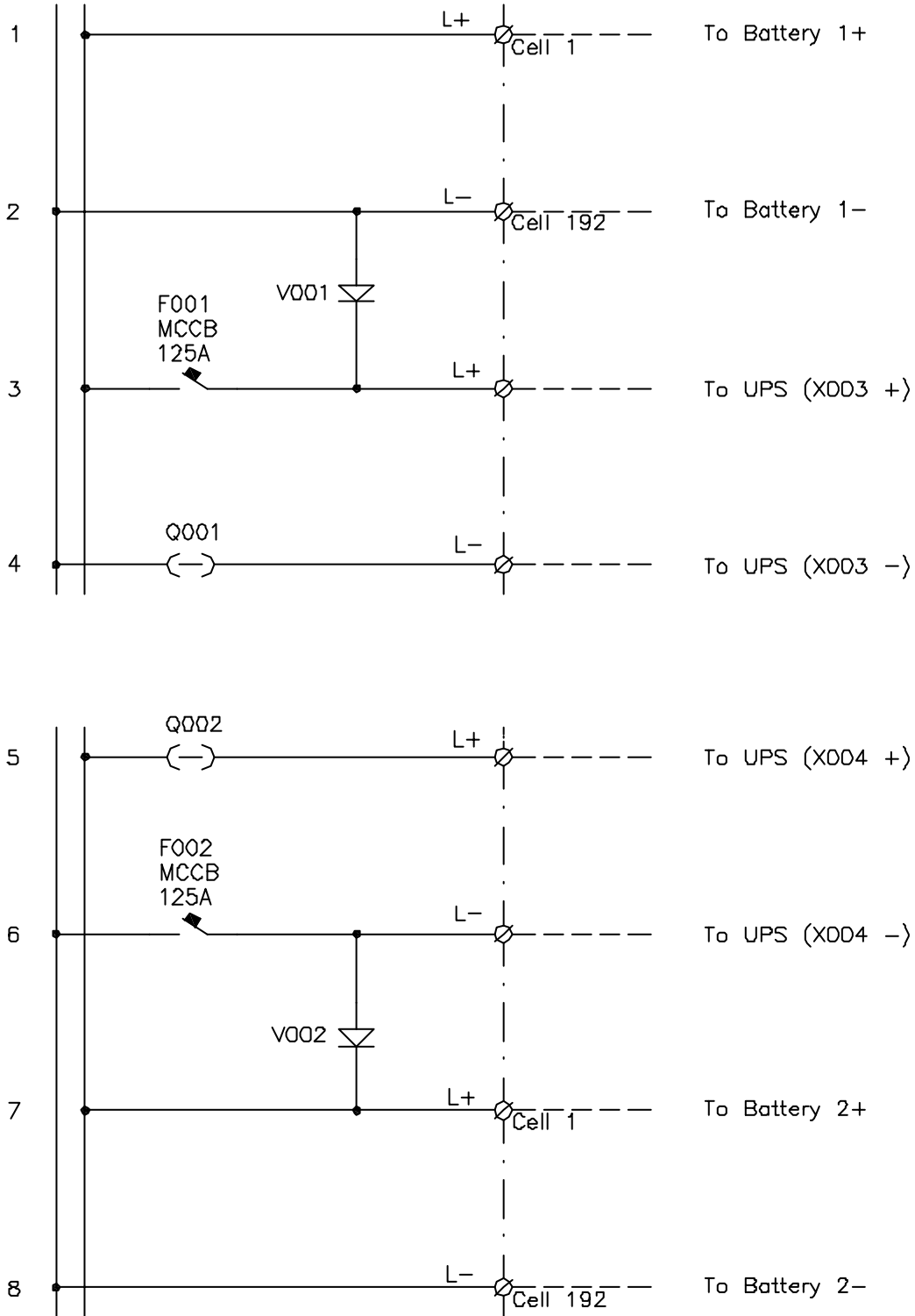
TITLE: SILICON 60/80kW UPS
BATTERY BREAKER BOX,
ELECTROMECHANICAL
60/80kW, 400V
PROJECT: SUBMITTAL DRAWINGS SHEET 3 OF 8

DWG NO: SBB60K80H-ME
DRAWN BY: M.ZEN 06/12/03
CHECKED BY: B.NELSEN 06/12/03
ENGINEER: CLAUSEN 06/12/03

REV. -
PROJECTION



880V DC
 In=125A
 L-L+



NOTES:

1. DASHED (---) LINES OUTSIDE OF SBB UNIT, REPRESENT CABLING PROVIDED BY OTHERS.

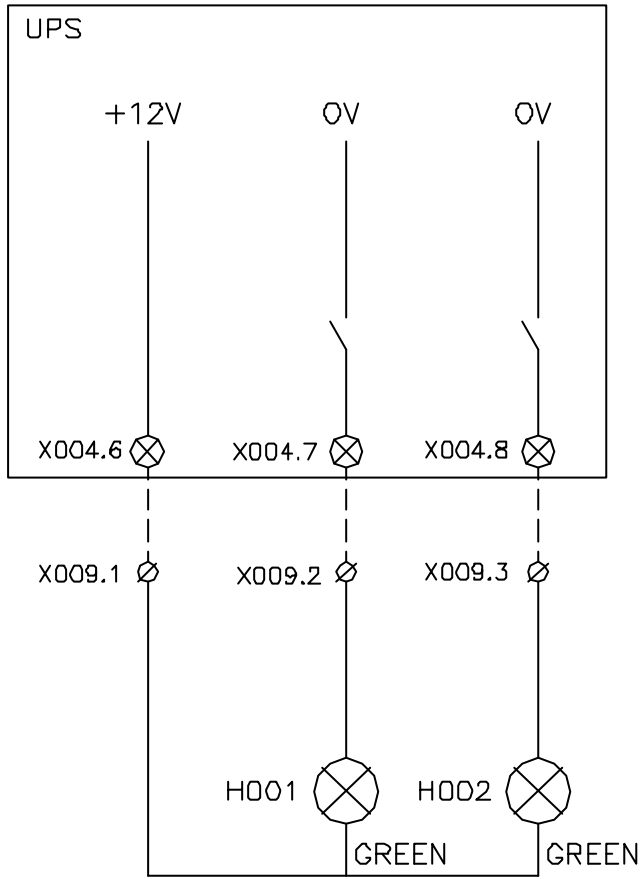
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TITLE: SILICON 60/80KW UPS BATTERY BREAKER BOX, POWER CIRCUIT
 PROJECT: SUBMITTAL DRAWINGS SHEET 4 OF 8

DWG NO: SBB60K80H-ES REV. 1
 DRAWN BY: NZJON 07/01/04
 CHECKED BY: BLJENSEN 07/01/04
 ENGINEER: CLARSEN 07/01/04



CONTROL CIRCUIT



1

2

3

4

5

6

7

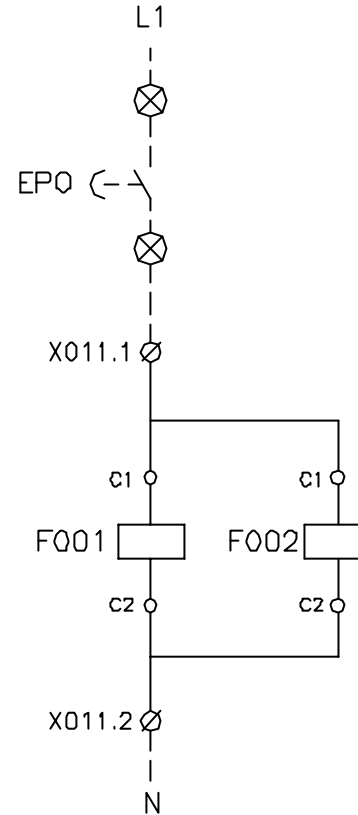
8

9

10

OK FOR
OPERATING
THE F002

OK FOR
OPERATING
THE F001



TRIP FOR
EMERGENCY TRIP
(220-240V AC)

NOTES:

1. X004 ⊗ TERMINALS LOCATED IN UPS.
2. X009 ∅ TERMINALS LOCATED IN SBB.
3. DASHED (- -) LINES OUTSIDE OF SBB UNIT REPRESENT CABLING PROVIDED BY OTHERS.

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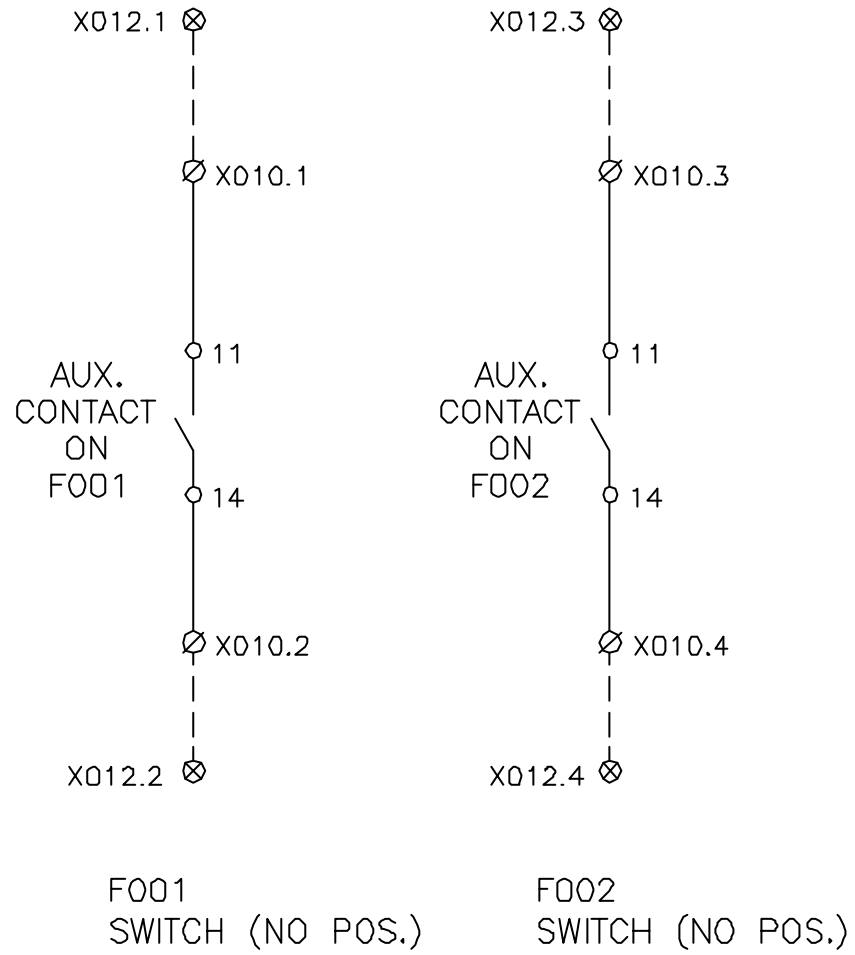
TITLE: SILICON 60/60KW UPS BATTERY BREAKER BDX, CONTROL CIRCUIT 60/60KW, 40DV
PROJECT: SUBMITTAL DRAWINGS SHEET 3 OF 8

DWG NO: SBB60K8DH-ES
DRAWN BY: MZON 16/08/03
CHECKED BY: DANIELSEN 16/08/03
ENGINEER: CLARSEN 16/08/03

REV. -
PRODUCTION



CONTROL CIRCUIT



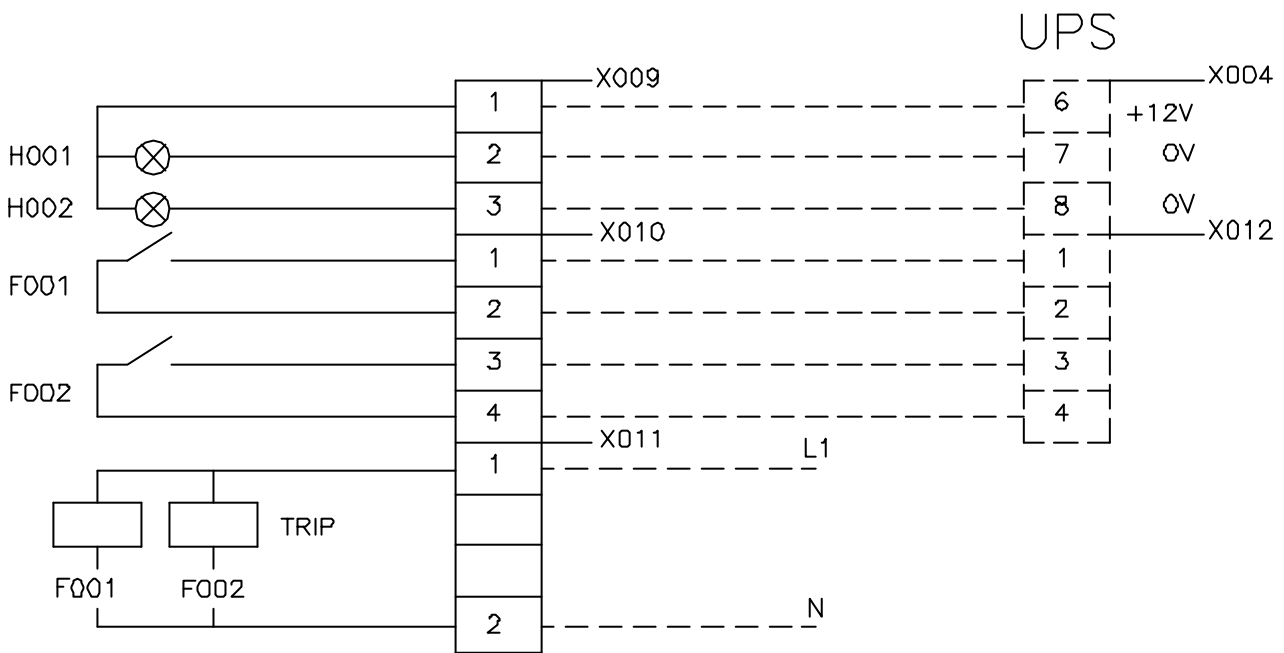
NOTES:

1. X012 ⊗ TERMINALS LOCATED IN UPS.
2. X010 ⊕ TERMINALS LOCATED IN SBB.
3. DASHED (---) LINES OUTSIDE OF SBB UNIT REPRESENT CABLING PROVIDED BY OTHERS.

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	PROJECT: SUBMITTAL DRAWINGS SHEET 6 OF 8	DRAWN BY: MZON	16/08/03	PRODUCTION
		CHECKED BY: DANIELSEN	18/08/03	⊕ ⊞
		ENGINEER: CLARSEN	18/08/03	



CONTROL CIRCUIT



NOTES:

1. DASHED (---) LINES OUTSIDE OF SBB UNIT, REPRESENT CABLING PROVIDED BY OTHERS.

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TITLE: SILICON 60/60KW UPS BATTERY BREAKER BOX, CONTROL CIRCUIT
 PROJECT: SUBMITTAL DRAWINGS SHEET 7 OF 8

DWG NO: SBB60K80H-ES
 DRAWN BY: NZJON 16/08/03
 CHECKED BY: BLJENSEN 16/08/03
 ENGINEER: CLARKE 16/08/03

REV. -
 PROJECTION



