

MAX PANEL SUPPLY PROTECTIVE DEVICE RATING:
125 AMPS

NO	NC
1.8	1.9

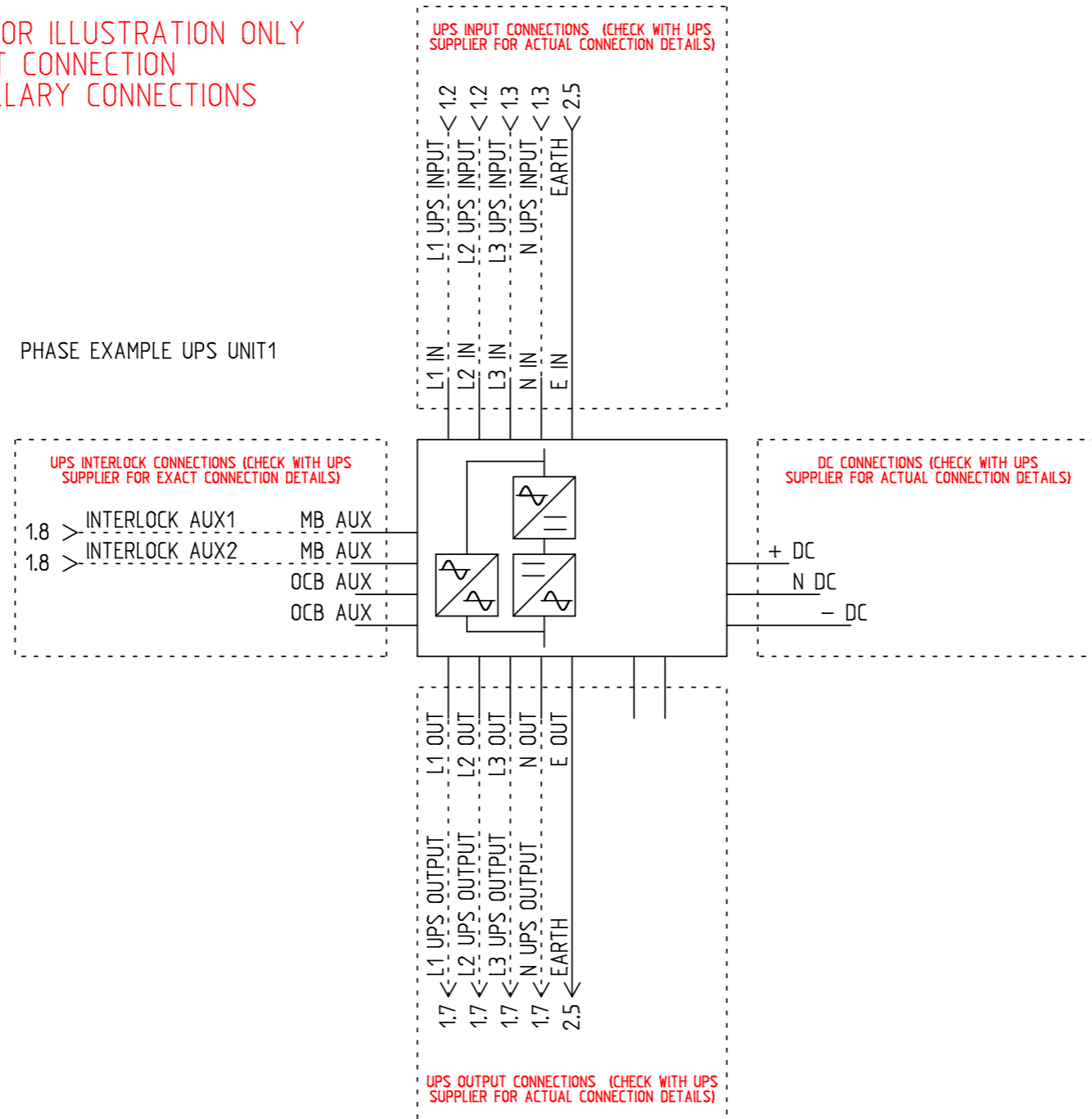
- NOTES:**
- 1) PRODUCT MUST BE INSTALLED IN COMPLIANCE WITH ALL NATIONAL AND LOCAL ELECTRICAL REGULATIONS
 - 2) PLEASE REFER TO UPS PRODUCT MANUALS FOR ADDITIONAL INFORMATION
 - 3) ALL DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED
 - 4) 4 - CORE SHIELDED SIGNAL CABLE MUST BE RUN FROM EMBS TO EACH UPS UNIT
 - 5) ALL DASHED LINES EXTERNAL TO BYPASS PANEL

PRODUCT REF:	RB1-K-EMBS-125A-4P-ISO-KS20
DOCUMENT NUMBER:	RBECAD00290
PAGE DESCRIPTION:	MAIN SWITCH'S
PROJECT NO:	SUBMITTAL DRAWING
PAGE TEMPLATE REF:	RBQS00075REV2
PRODUCT WEIGHT:	25KG

REV NO:	1
CREATION DATE:	29/04/2016
REV DATE:	30/01/2018
DRAWN BY:	R BARNES
CHECKED BY:	L RICHARDSON
SHEET NUMBER:	1 OF 5

EXAMPLE UPS UNIT CONNECTION DIAGRAM FOR ILLUSTRATION ONLY
 CHECK WITH UPS UNIT SUPPLIER FOR EXACT CONNECTION
 CONFIGURATION FOR THE AC, DC AND AUXILLARY CONNECTIONS

PHASE EXAMPLE UPS UNIT1



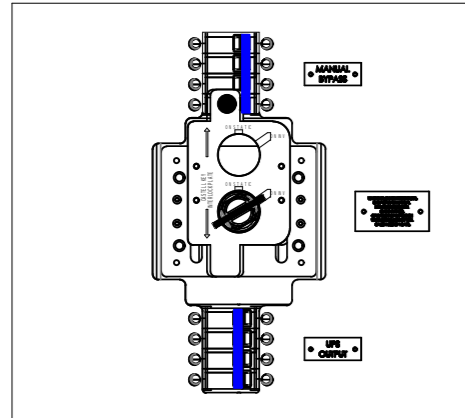
NOTES:

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PRODUCT REF:	RB1-K-EMBS-125A-4P-ISO-KS20	REV NO:	1
DOCUMENT NUMBER:	RBECAD00290	CREATION DATE:	25/05/2016
PAGE DESCRIPTION:	UPS UNIT	REV DATE:	30/01/2018
PROJECT NO:	SUBMITTAL DRAWING	DRAWN BY:	R BARNES
PAGE TEMPLATE REF:	RBQS00078REV2	CHECKED BY:	L RICHARDSON
PRODUCT WEIGHT:	25KG	SHEET NUMBER:	2 OF 5

DO NOT USE THIS PROCEDURE IF THE MAINS IS NOT AVAILABLE. IF IN ANY DOUBT CONTACT YOUR UPS SERVICE PROVIDER.

STEP A (NORMAL POSITION)



MANUAL BYPASS:
-IN THE OFF POSITION

CASTELL KEY :
-INSERTED + TURNED CLOCKWISE

UPS OUTPUT:
-IN THE ON POSITION

UPS UNIT:
-ONLINE - LOAD ON UPS
-UPS INVERTER NOT BLOCKED

STEP B

REFER TO UPS USER MANUAL TO SWITCH THE UPS UNIT (OR UNITS) TO STATIC BYPASS

ONCE UPS UNIT (OR UNITS) ARE IN STATIC BYPASS CONTINUE THE SWITCHING SEQUENCE

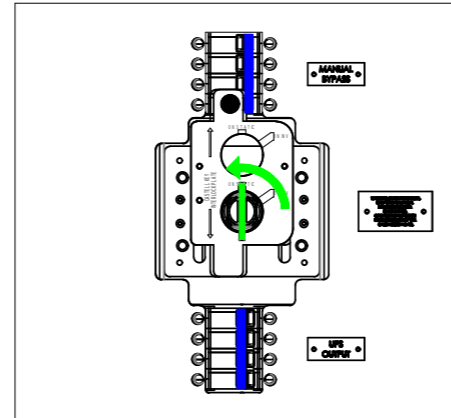
MANUAL BYPASS:
-IN THE OFF POSITION

CASTELL KEY :
-INSERTED + TURNED CLOCKWISE

UPS OUTPUT:
-IN THE ON POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER NOT BLOCKED

STEP C



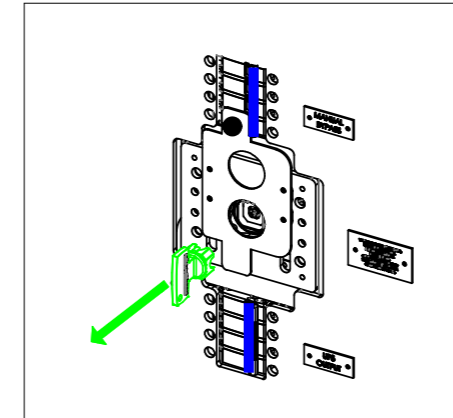
MANUAL BYPASS:
-IN THE OFF POSITION

CASTELL KEY :
-INSERTED + TURNED ANTI-CLOCKWISE

UPS OUTPUT:
-IN THE ON POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP D



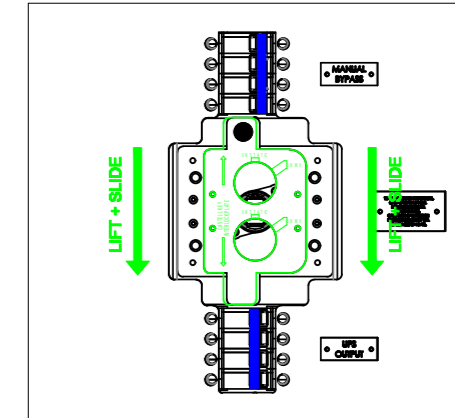
MANUAL BYPASS:
-IN THE OFF POSITION

CASTELL KEY :
-REMOVED

UPS OUTPUT:
-IN THE ON POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP E



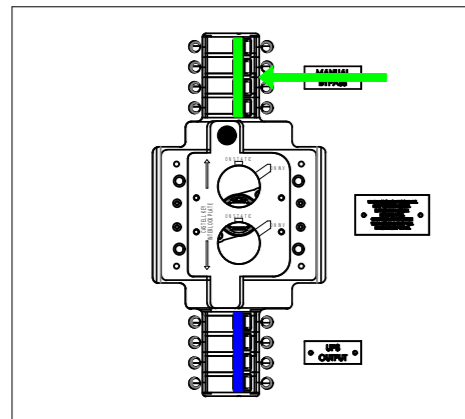
MANUAL BYPASS:
-IN THE OFF POSITION

CASTELL KEY :
-REMOVED

UPS OUTPUT:
-IN THE ON POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP F



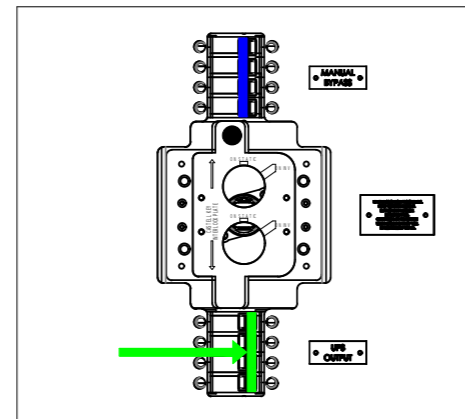
MANUAL BYPASS:
-IN THE ON POSITION

CASTELL KEY :
-REMOVED

UPS OUTPUT:
-IN THE ON POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP G



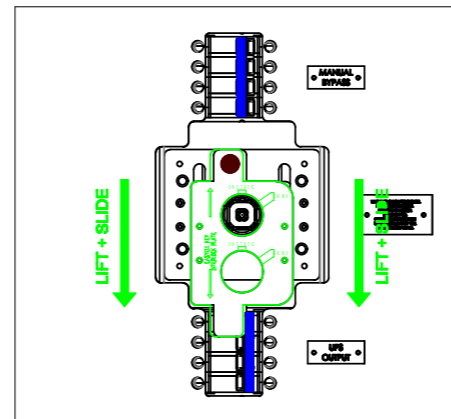
MANUAL BYPASS:
-IN THE ON POSITION

CASTELL KEY :
-REMOVED

UPS OUTPUT:
-IN THE OFF POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP H



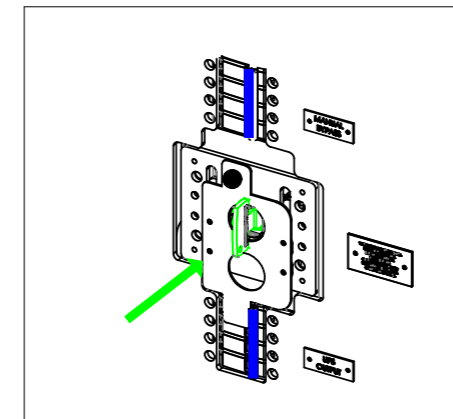
MANUAL BYPASS:
-IN THE ON POSITION

CASTELL KEY :
-REMOVED

UPS OUTPUT:
-IN THE OFF POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP I



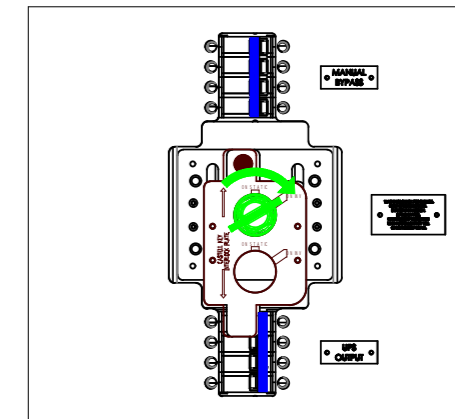
MANUAL BYPASS:
-IN THE ON POSITION

CASTELL KEY :
-INSERTED + TURNED ANTI-CLOCKWISE

UPS OUTPUT:
-IN THE OFF POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP J



MANUAL BYPASS:
-IN THE ON POSITION

CASTELL KEY :
-INSERTED + TURNED CLOCKWISE

UPS OUTPUT:
-IN THE OFF POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER NOT BLOCKED

NOTES:

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PRODUCT REF:	RB1-K-EMBS-125A-4P-ISO-KS20
DOCUMENT NUMBER:	RBECAD00290
PAGE DESCRIPTION:	INTERLOCK OPERATION PAGE 1
PROJECT NO:	SUBMITTAL DRAWING
PAGE TEMPLATE REF:	RBQS00078REV2
PRODUCT WEIGHT:	25KG

REV NO:	1
CREATION DATE:	29/04/2016
REV DATE:	30/01/2018
DRAWN BY:	R BARNES
CHECKED BY:	L RICHARDSON
SHEET NUMBER:	3 OF 5

DO NOT USE THIS PROCEDURE IF THE MAINS IS NOT AVAILABLE. IF IN ANY DOUBT CONTACT YOUR UPS SERVICE PROVIDER.

STEP K (ON BYPASS POSITION)

THIS PROCEDURE ASSUMES:

ALL SWITCH'S ON THE EMBS AND ON THE UPS UNIT SHOULD STILL BE AS PER STEP J ON THE PREVIOUS PAGE PRIOR TO PROCEEDING

THE UPS UNIT SHOULD BE IN STATIC BYPASS AND SHOULD BE READY TO ACCEPT THE SYSTEM LOAD

IF IN ANY DOUBT CONTACT YOUR UPS SYSTEM SERVICE PROVIDER BEFORE PROCEEDING

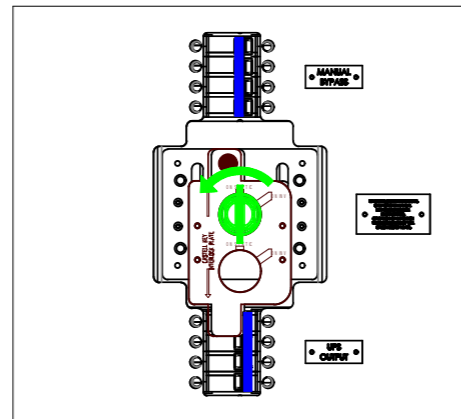
MANUAL BYPASS:
-IN THE ON POSITION

CASTELL KEY :
-INSERTED + TURNED CLOCKWISE

UPS OUTPUT:
-IN THE OFF POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER NOT BLOCKED

STEP L



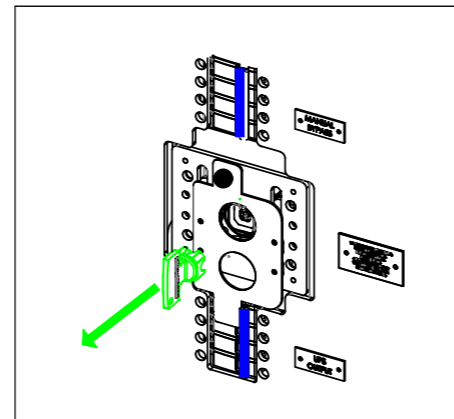
MANUAL BYPASS:
-IN THE ON POSITION

CASTELL KEY :
-INSERTED + TURNED ANTI-CLOCKWISE

UPS OUTPUT:
-IN THE OFF POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP M



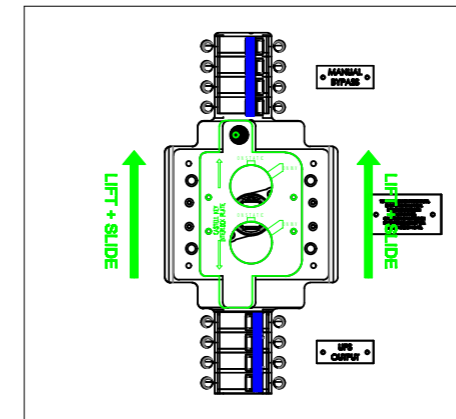
MANUAL BYPASS:
-IN THE ON POSITION

CASTELL KEY :
-REMOVED

UPS OUTPUT:
-IN THE OFF POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP N



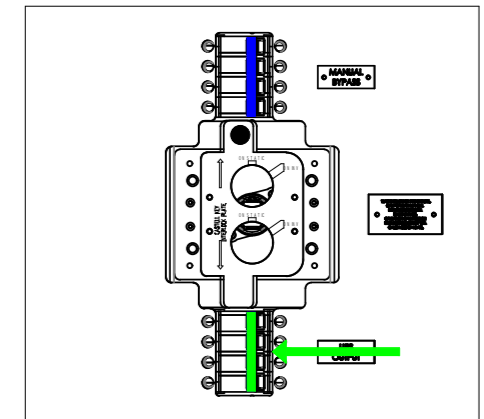
MANUAL BYPASS:
-IN THE ON POSITION

CASTELL KEY :
-REMOVED

UPS OUTPUT:
-IN THE OFF POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP O



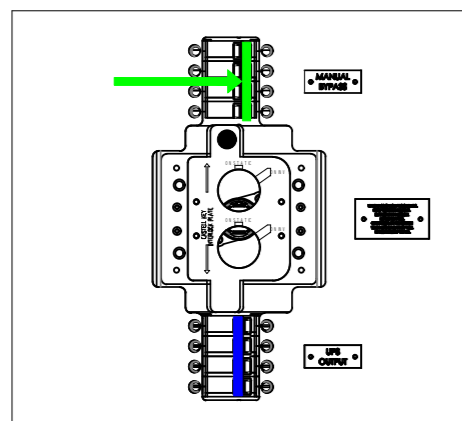
MANUAL BYPASS:
-IN THE ON POSITION

CASTELL KEY :
-REMOVED

UPS OUTPUT:
-IN THE ON POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP P



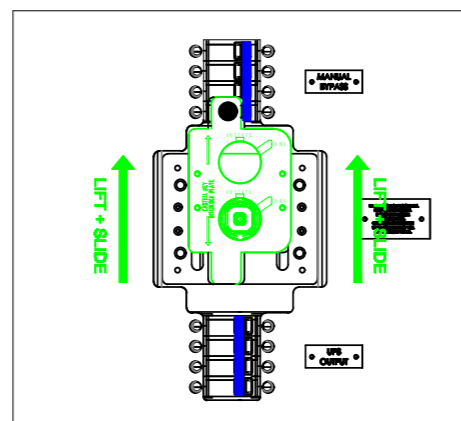
MANUAL BYPASS:
-IN THE OFF POSITION

CASTELL KEY :
-REMOVED

UPS OUTPUT:
-IN THE ON POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP Q



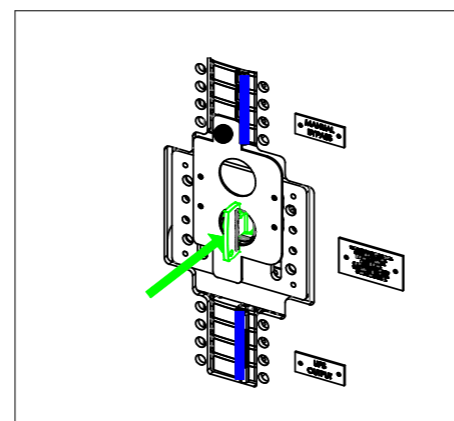
MANUAL BYPASS:
-IN THE OFF POSITION

CASTELL KEY :
-REMOVED

UPS OUTPUT:
-IN THE ON POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER BLOCKED

STEP R



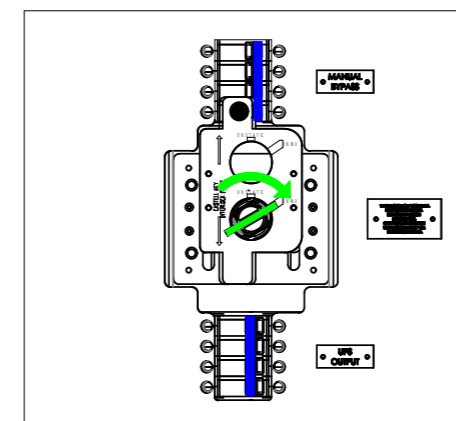
MANUAL BYPASS:
-IN THE OFF POSITION

CASTELL KEY :
-INSERTED + TURNED ANTI-CLOCKWISE

UPS OUTPUT:
-IN THE ON POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
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STEP S



MANUAL BYPASS:
-IN THE OFF POSITION

CASTELL KEY :
-INSERTED + TURNED CLOCKWISE

UPS OUTPUT:
-IN THE ON POSITION

UPS UNIT:
-STATIC BYPASS - LOAD ON MAINS
-UPS INVERTER NOT BLOCKED

STEP T

REFER TO UPS USER MANUAL TO SWITCH THE UPS UNIT (OR UNITS) TO ONLINE MODE

ONCE UPS UNIT (OR UNITS) ARE ONLINE THE SEQUENCE IS COMPLETE AND THE LOAD IS NOW BACKED UP BY UPS

IF IN ANY DOUBT CONTACT YOUR UPS SERVICE PROVIDER

MANUAL BYPASS:
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CASTELL KEY :
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UPS OUTPUT:
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UPS UNIT:
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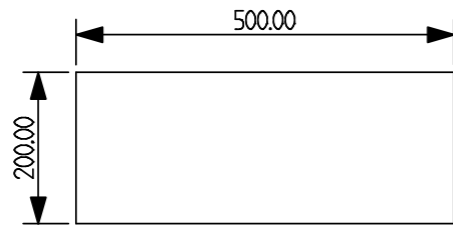
PRODUCT REF:	RB1-K-EMBS-125A-4P-ISO-KS20
DOCUMENT NUMBER:	RBECAD00290
PAGE DESCRIPTION:	INTERLOCK OPERATION PAGE 2
PROJECT NO:	SUBMITTAL DRAWING
PAGE TEMPLATE REF:	RBQS00078REV2
PRODUCT WEIGHT:	25KG

REV NO:	1
CREATION DATE:	29/04/2016
REV DATE:	30/01/2018
DRAWN BY:	R BARNES
CHECKED BY:	L RICHARDSON
SHEET NUMBER:	4 OF 5

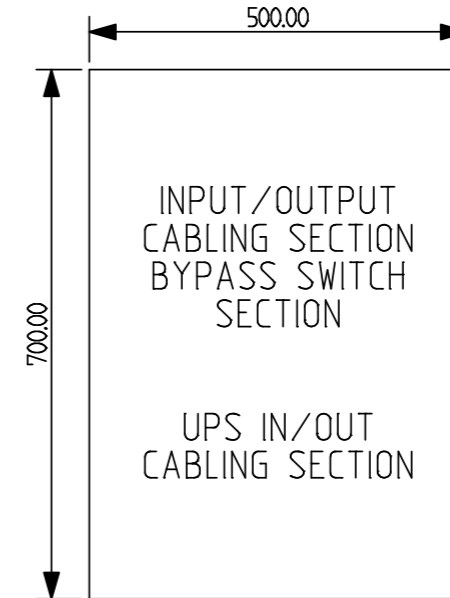
0 1 2 3 4 5 6 7 8 9

MECHANICAL LAYOUT

TOP VIEW



FRONT VIEW



CABLE GLANDING:

MAX CABLE SIZE: 35MM SWA

MAINS/LOAD: TOP/BOTTOM

UPS IN/OUT: TOP/BOTTOM

CABLE TERMINATIONS:

INPUT/OUTPUT: M6 BOLT

UPS INPUT: DIRECT TO DEVICE

UPS OUTPUT: DIRECT TO DEVICE

NEUTRAL BAR: M6 BOLT/DIRECT TO DEVICE

EARTH BAR: M6 BOLT

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DOCUMENT NUMBER:	RBECAD00290	CREATION DATE:	29/04/2016
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PROJECT NO:	SUBMITTAL DRAWING	DRAWN BY:	R BARNES
PAGE TEMPLATE REF:	RBQS00078REV2	CHECKED BY:	L RICHARDSON
PRODUCT WEIGHT:	25KG	SHEET NUMBER:	5 OF 5