

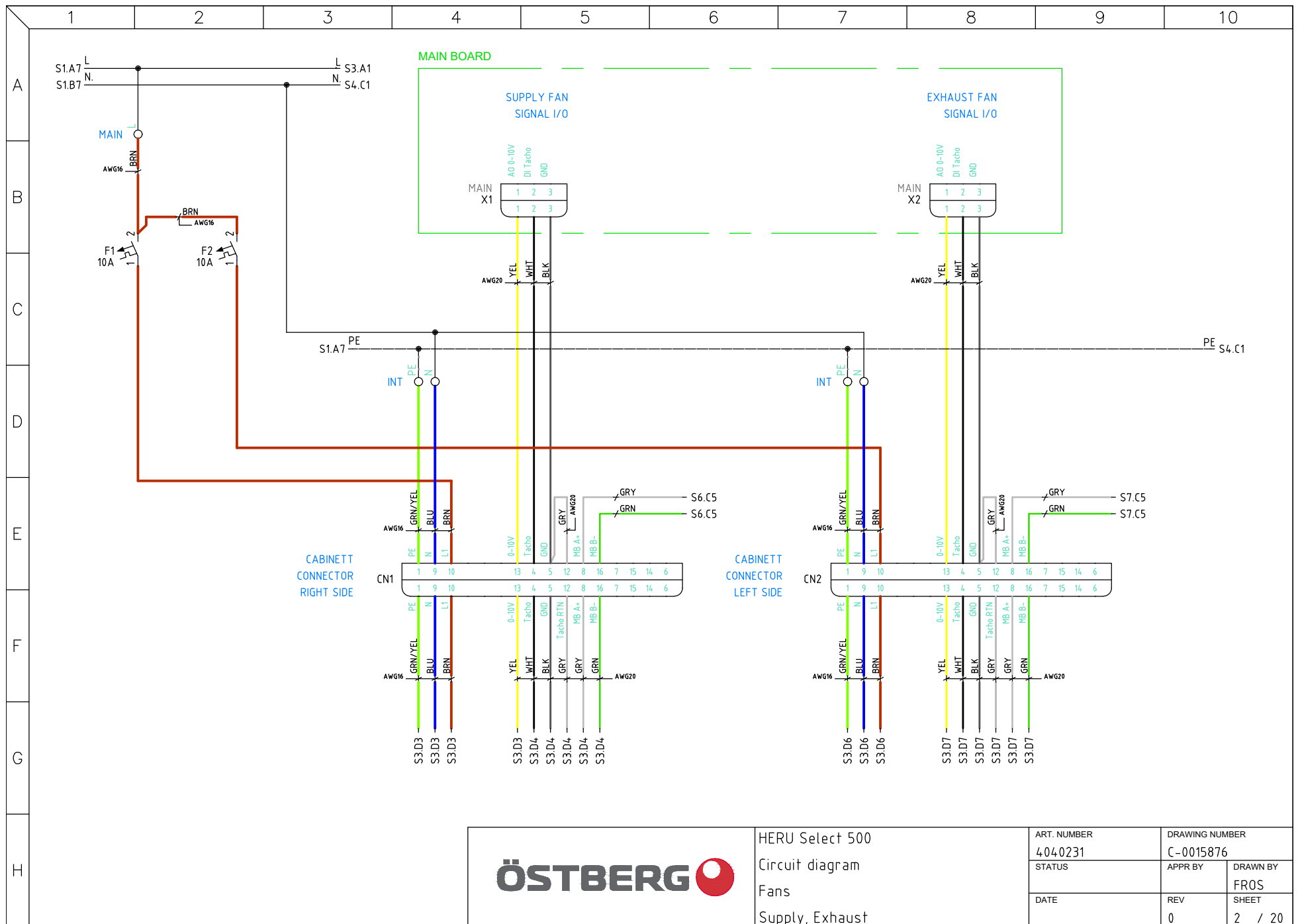
Power supply to Ventilation unit
1x230VAC + N + PE
Fuse: Max 1x16A
3-Wire system

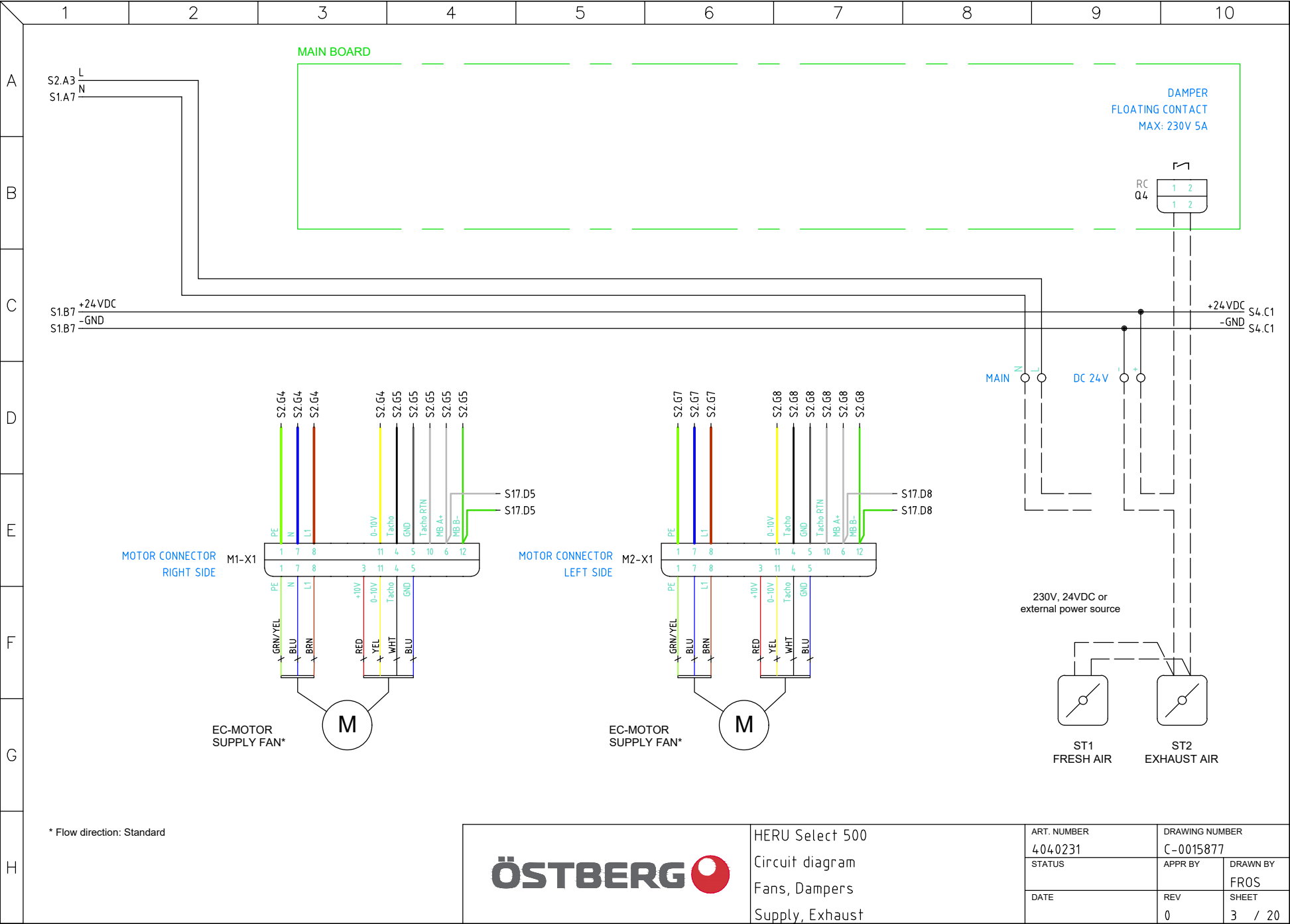
Note!
Power supply cable must be provided
with external disconnecting switch

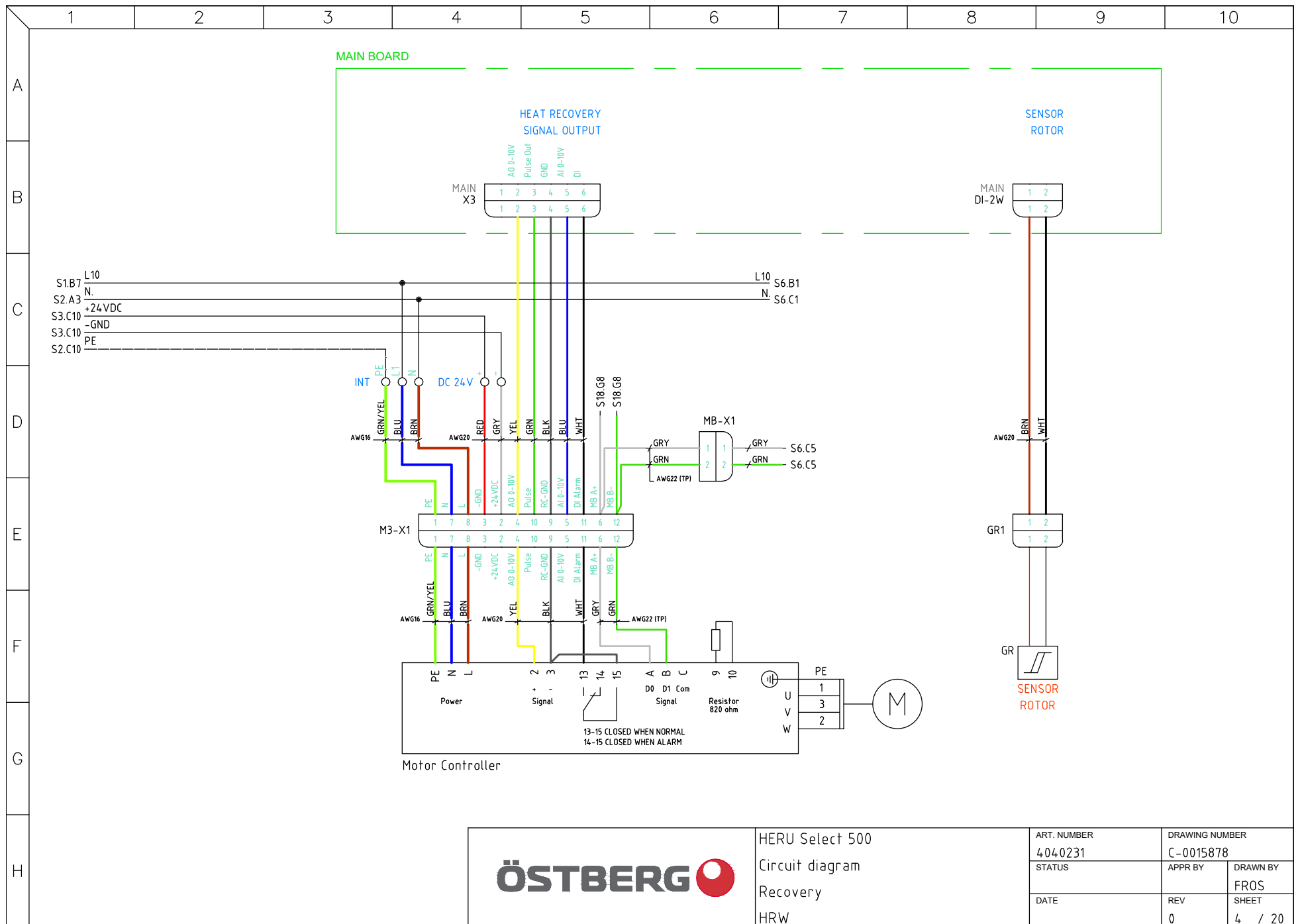
ÖSTBERG

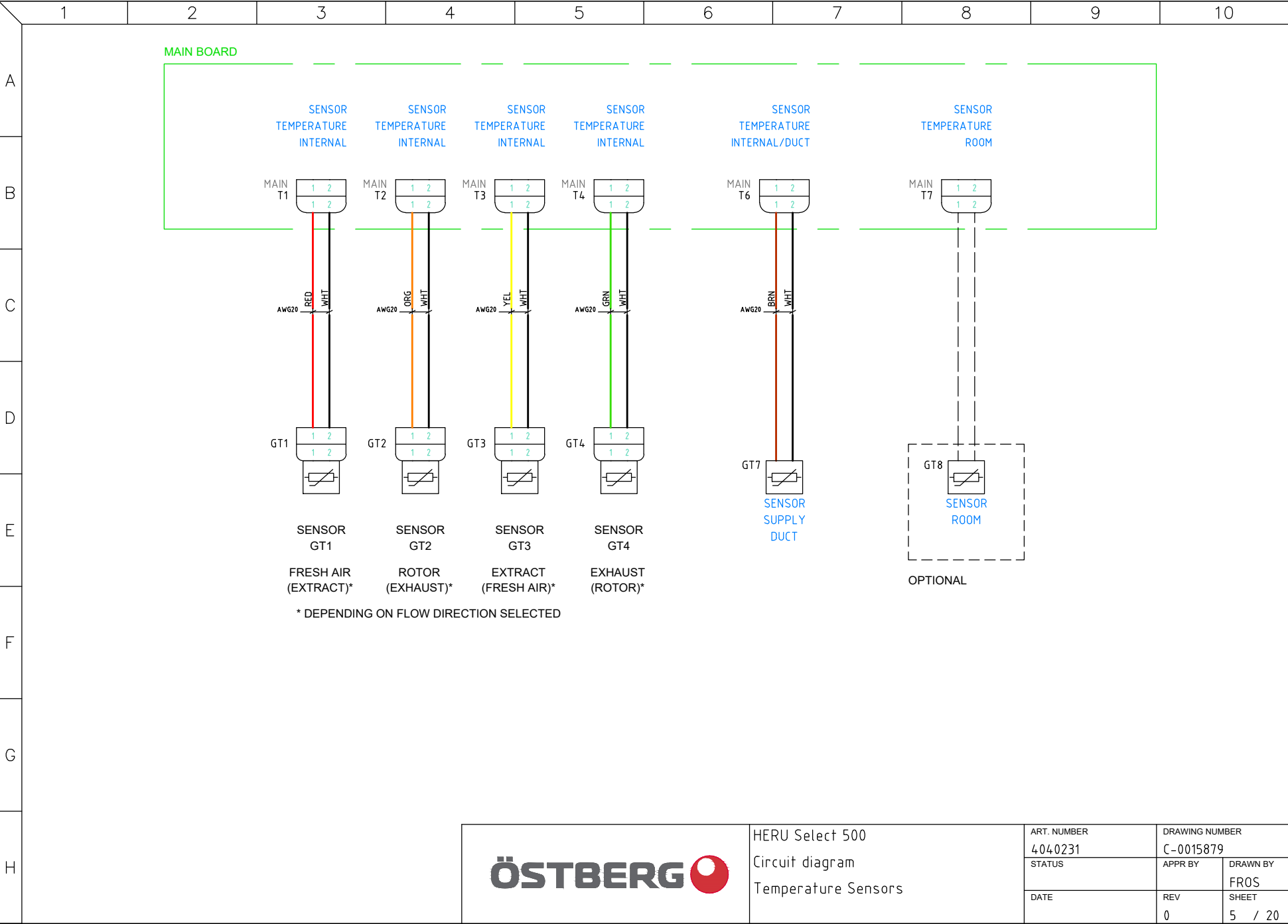
HERU Select 500
Circuit diagram
Power

ART. NUMBER 4040231	DRAWING NUMBER C-0015875	
STATUS	APPR BY	DRAWN BY FROS
DATE	REV 0	SHEET 1 / 20



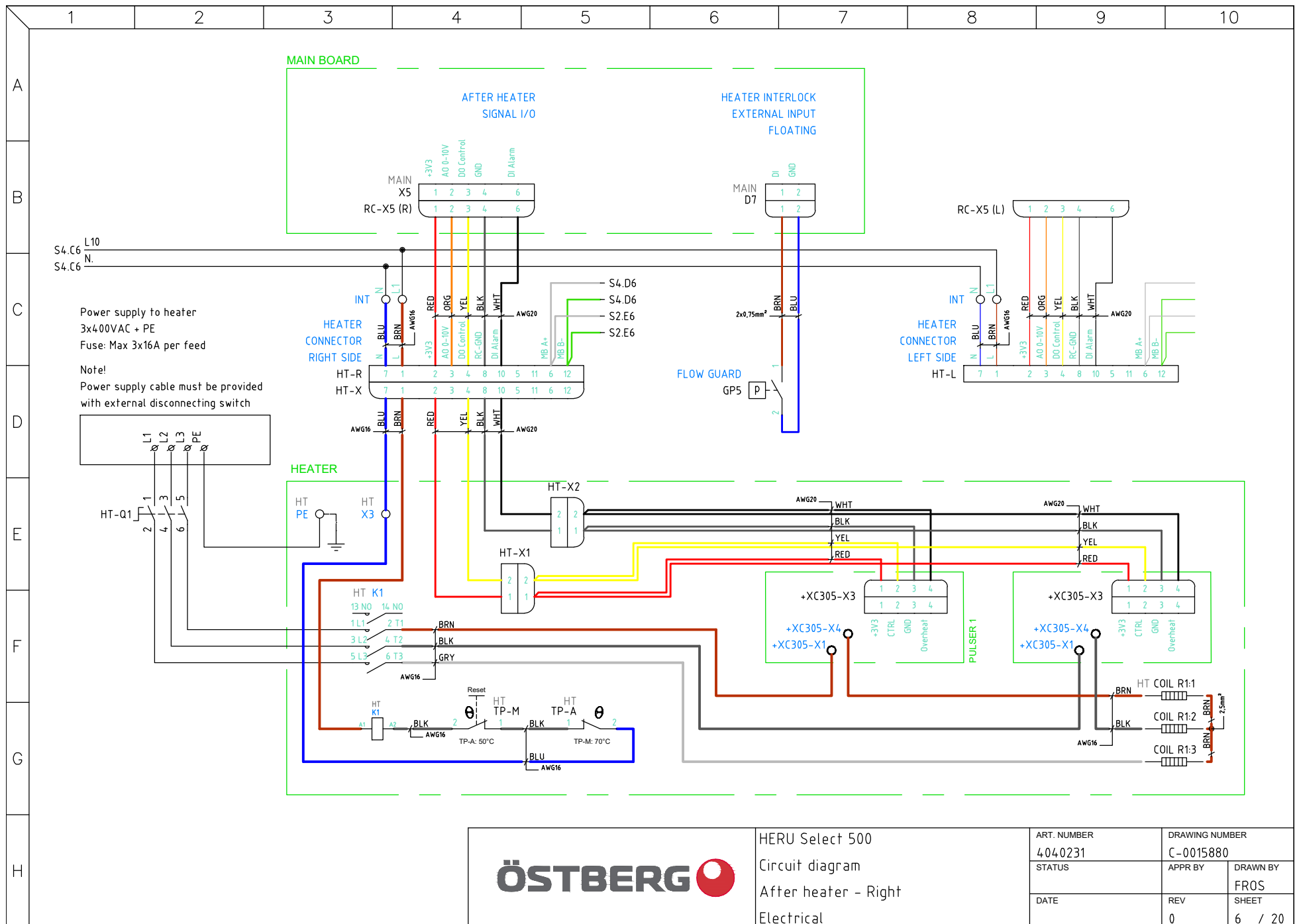


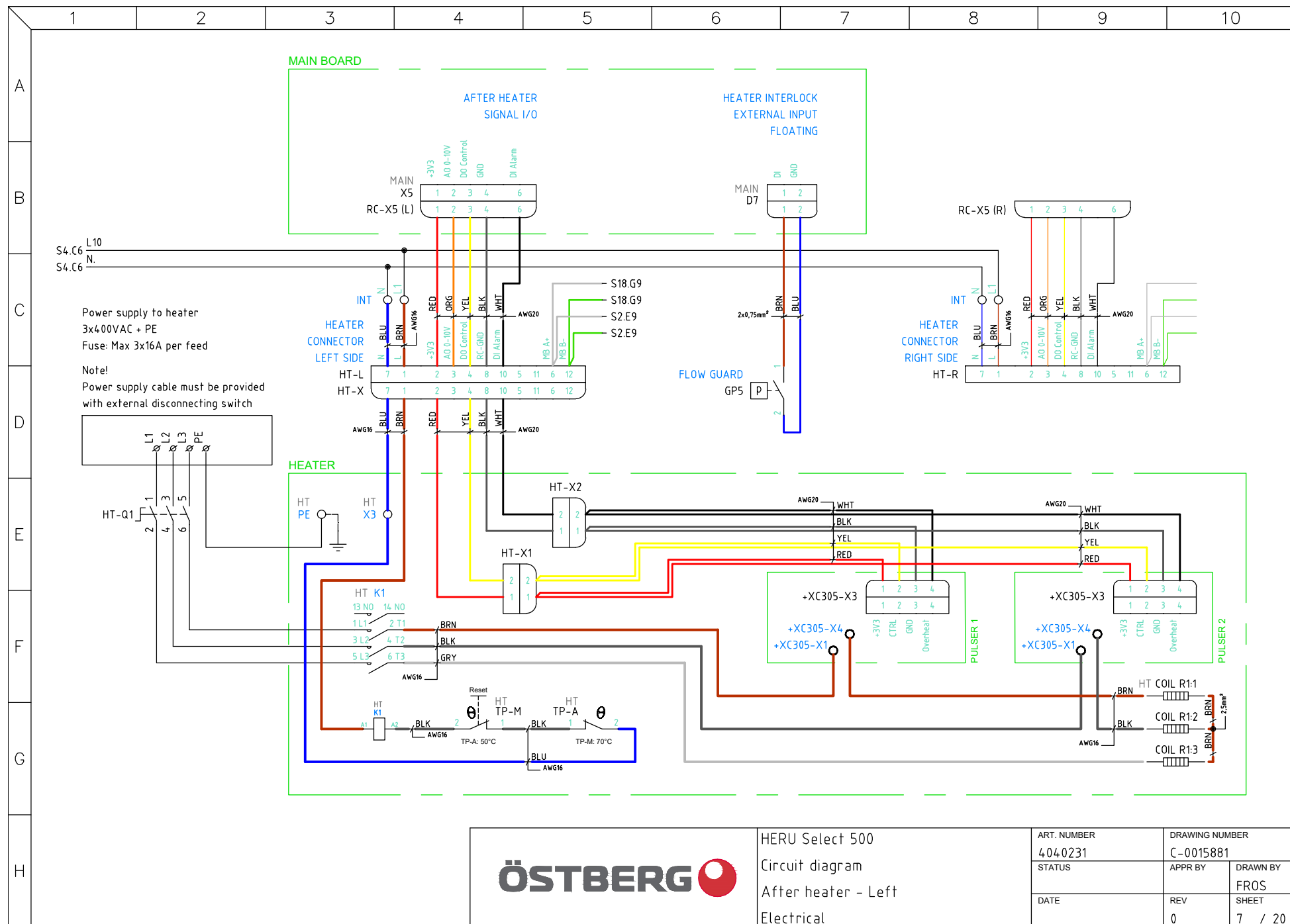




HERU Select 500
Circuit diagram
Temperature Sensors

ART. NUMBER	DRAWING NUMBER	
404.0231	C-0015879	
STATUS	APPR BY	DRAWN BY
		FRÖS
DATE	REV	SHEET
	0	5 / 20

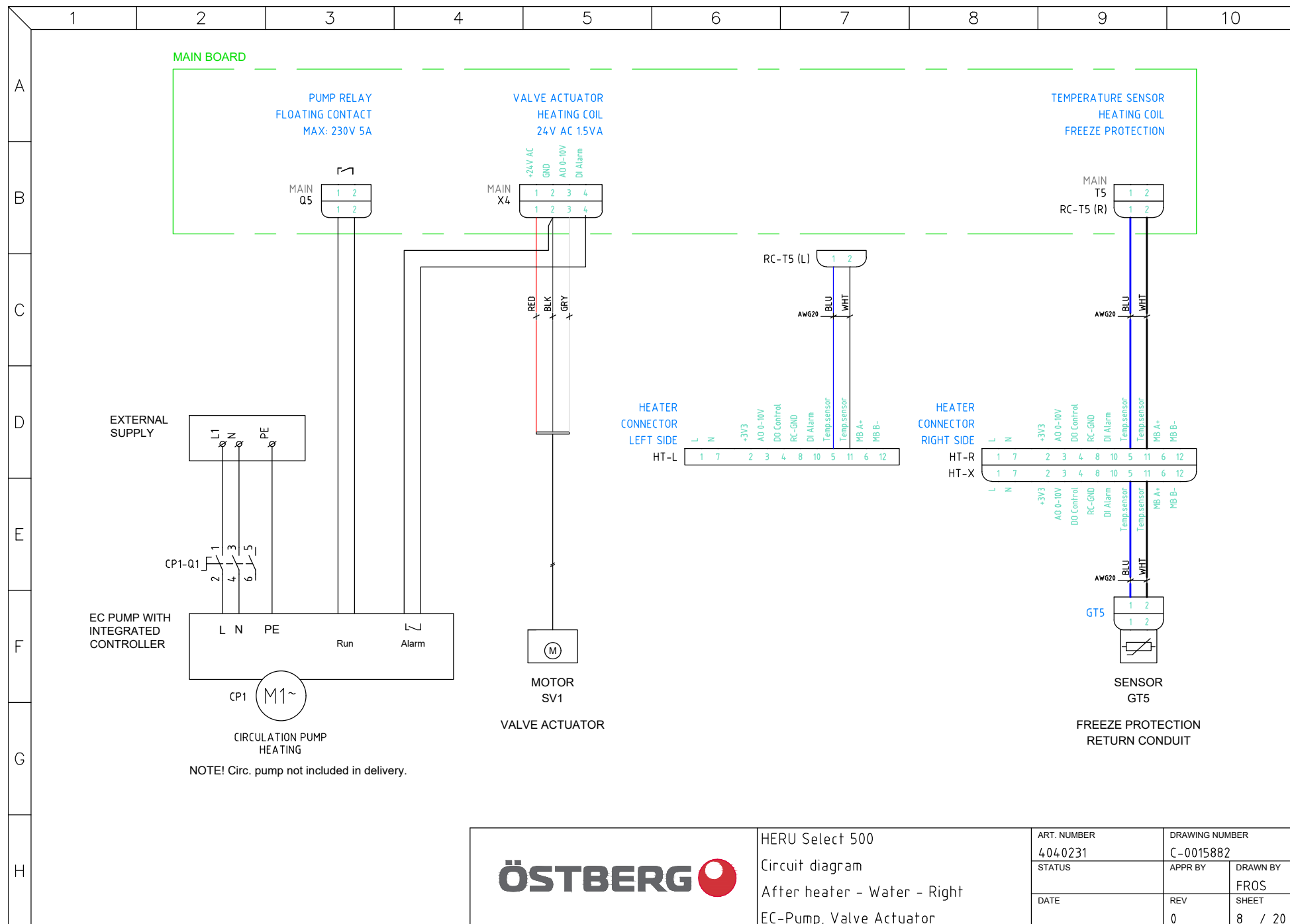


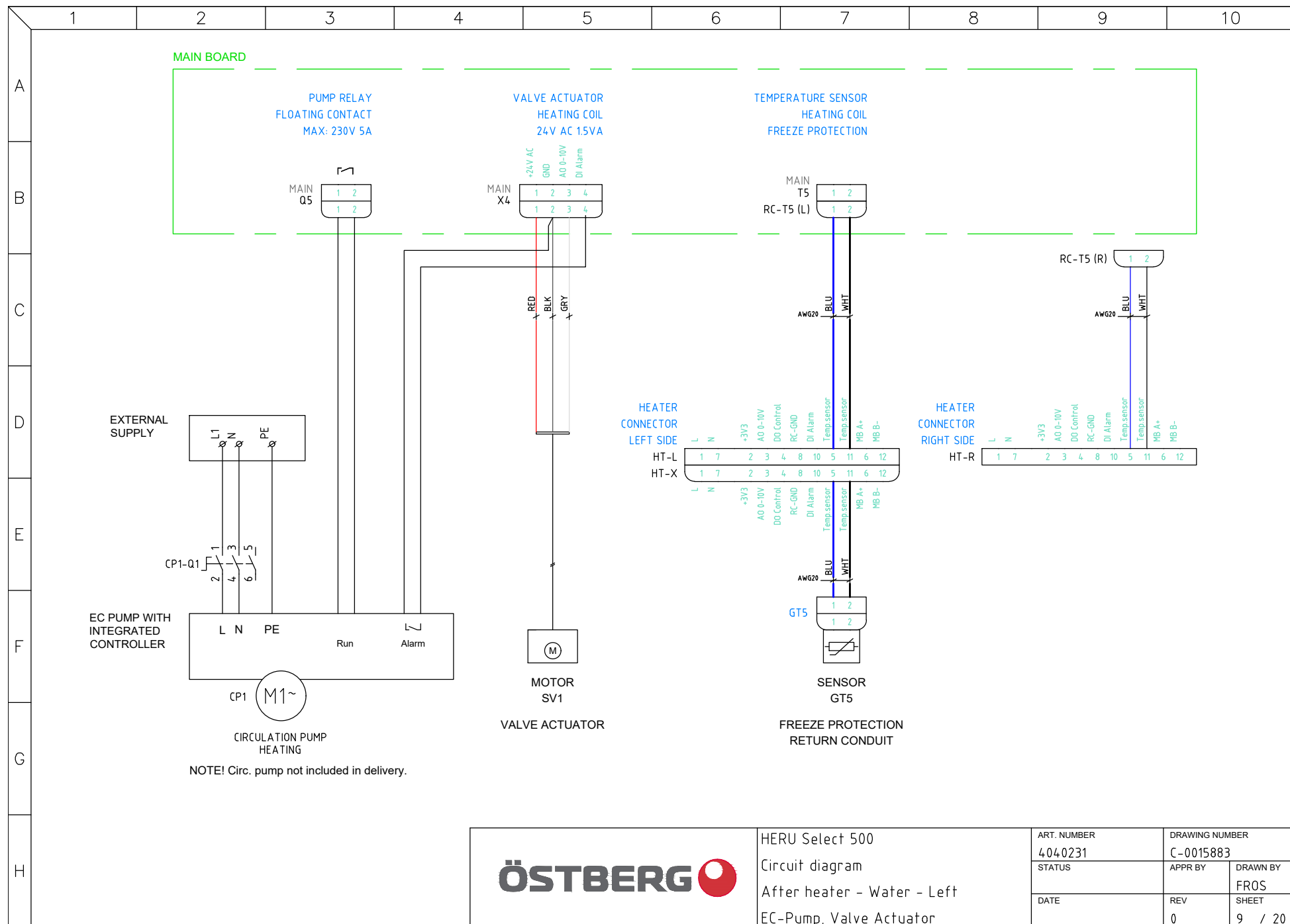


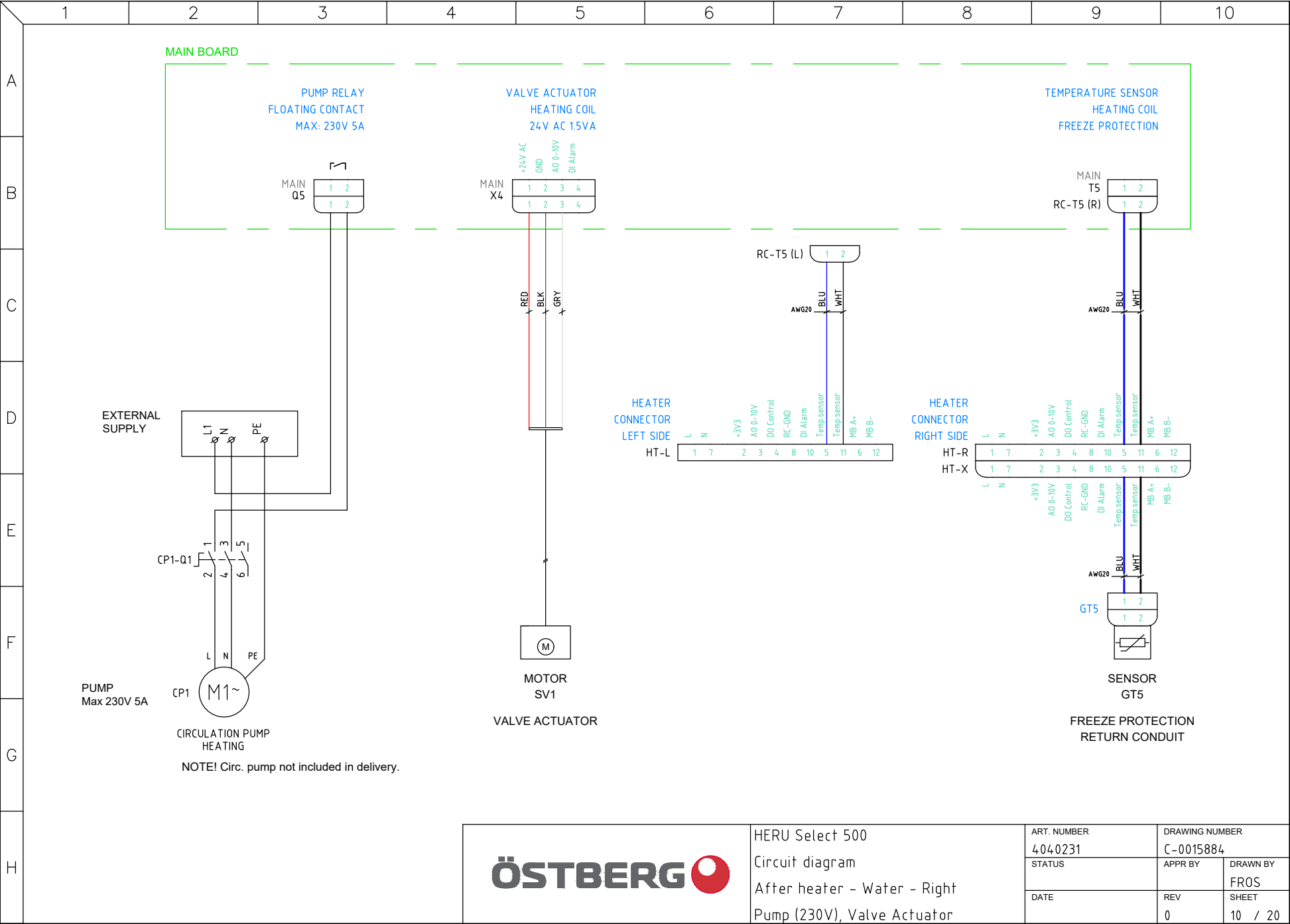
ÖSTBERG

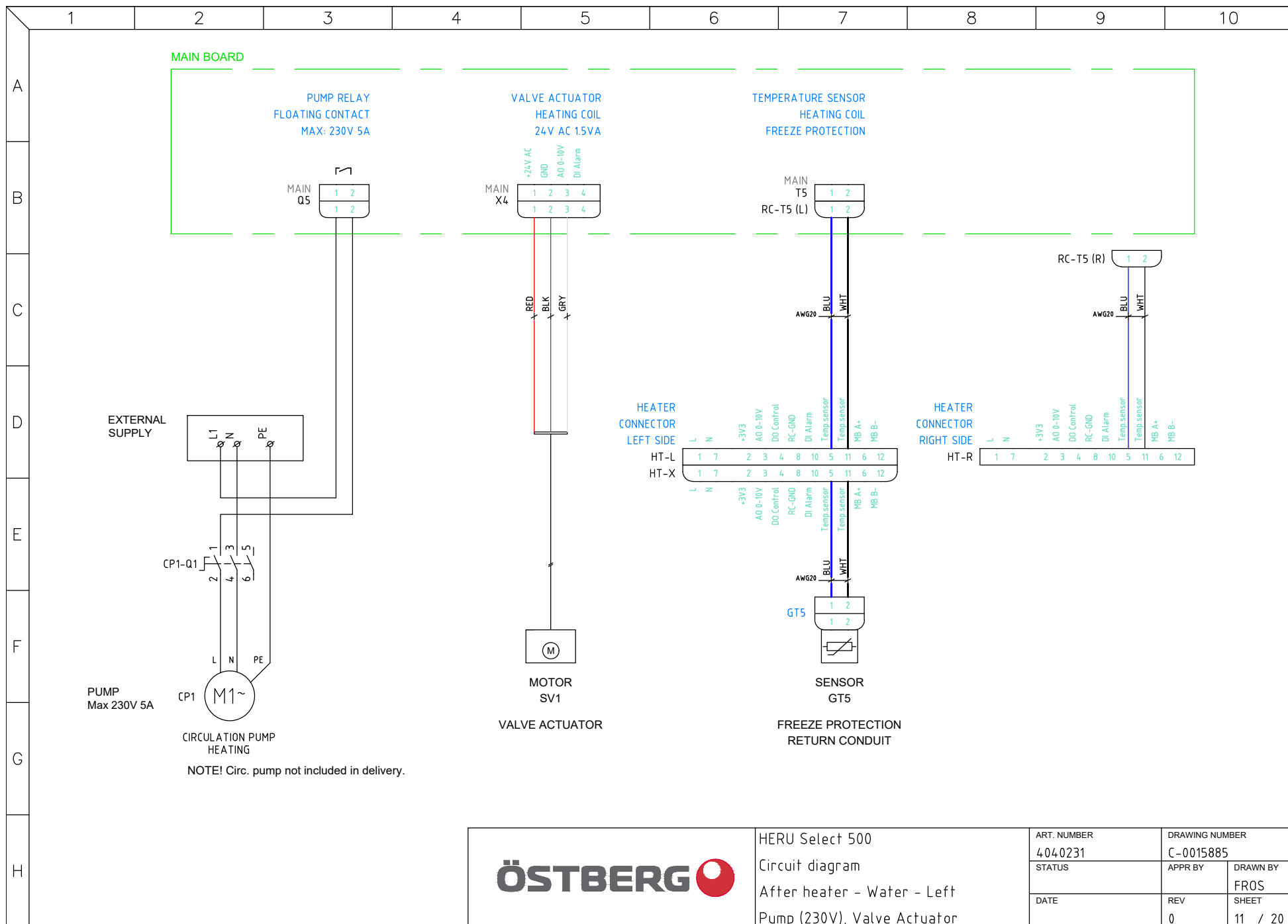
HERU Select 500
Circuit diagram
After heater - Left
Electrical

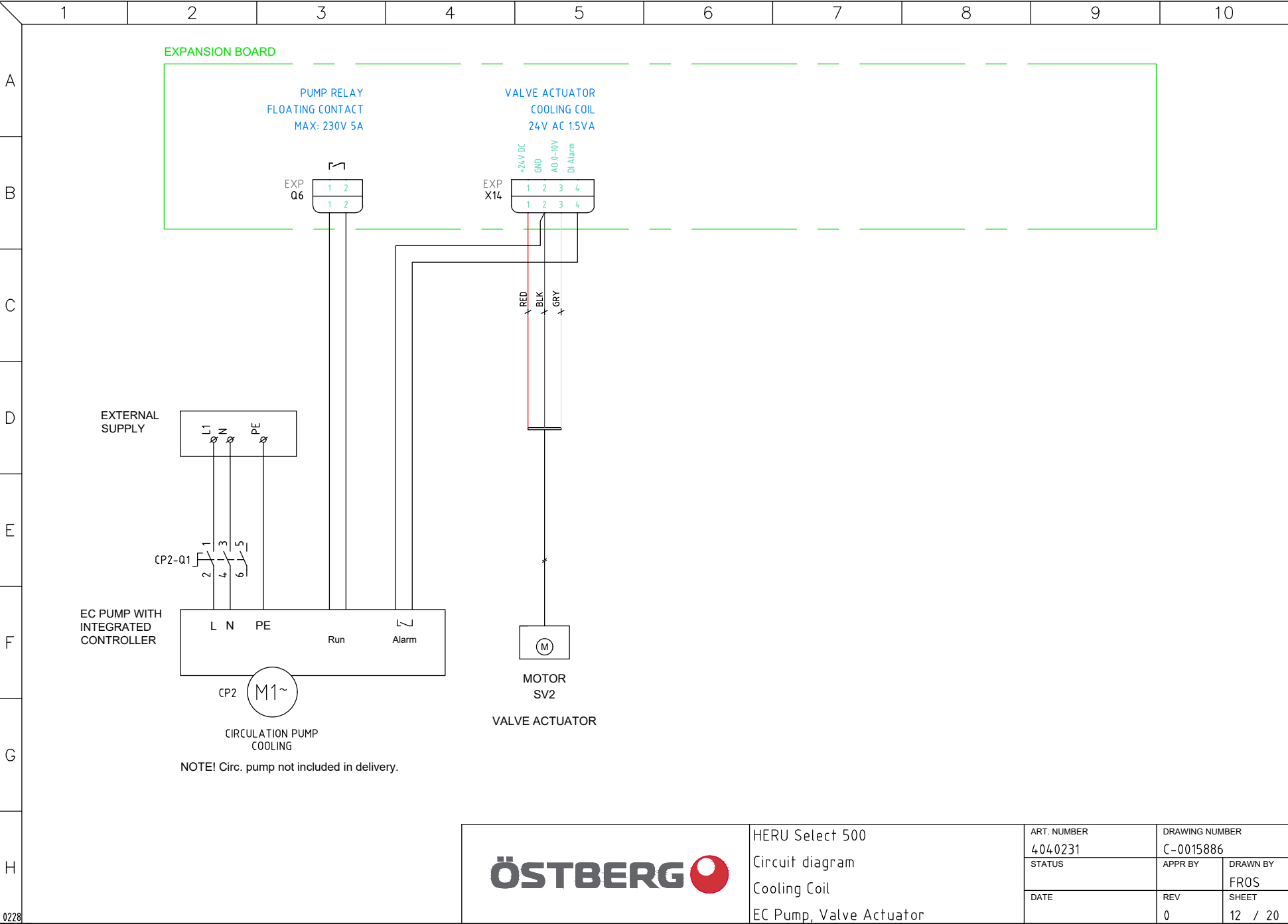
ART. NUMBER 404.0231	DRAWING NUMBER C-0015881	
STATUS	APPR BY	DRAWN BY FROS
DATE	REV 0	SHEET 7 / 20

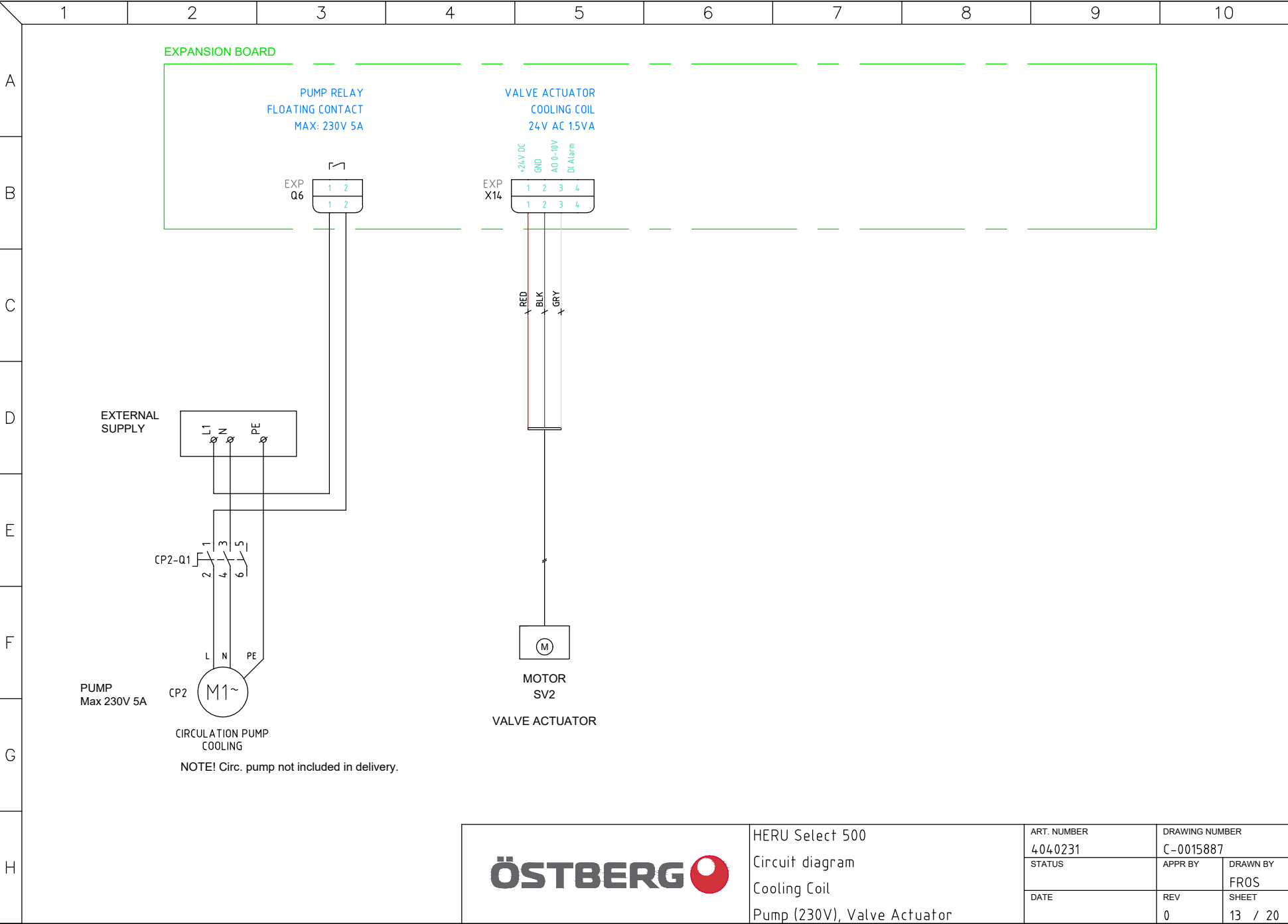


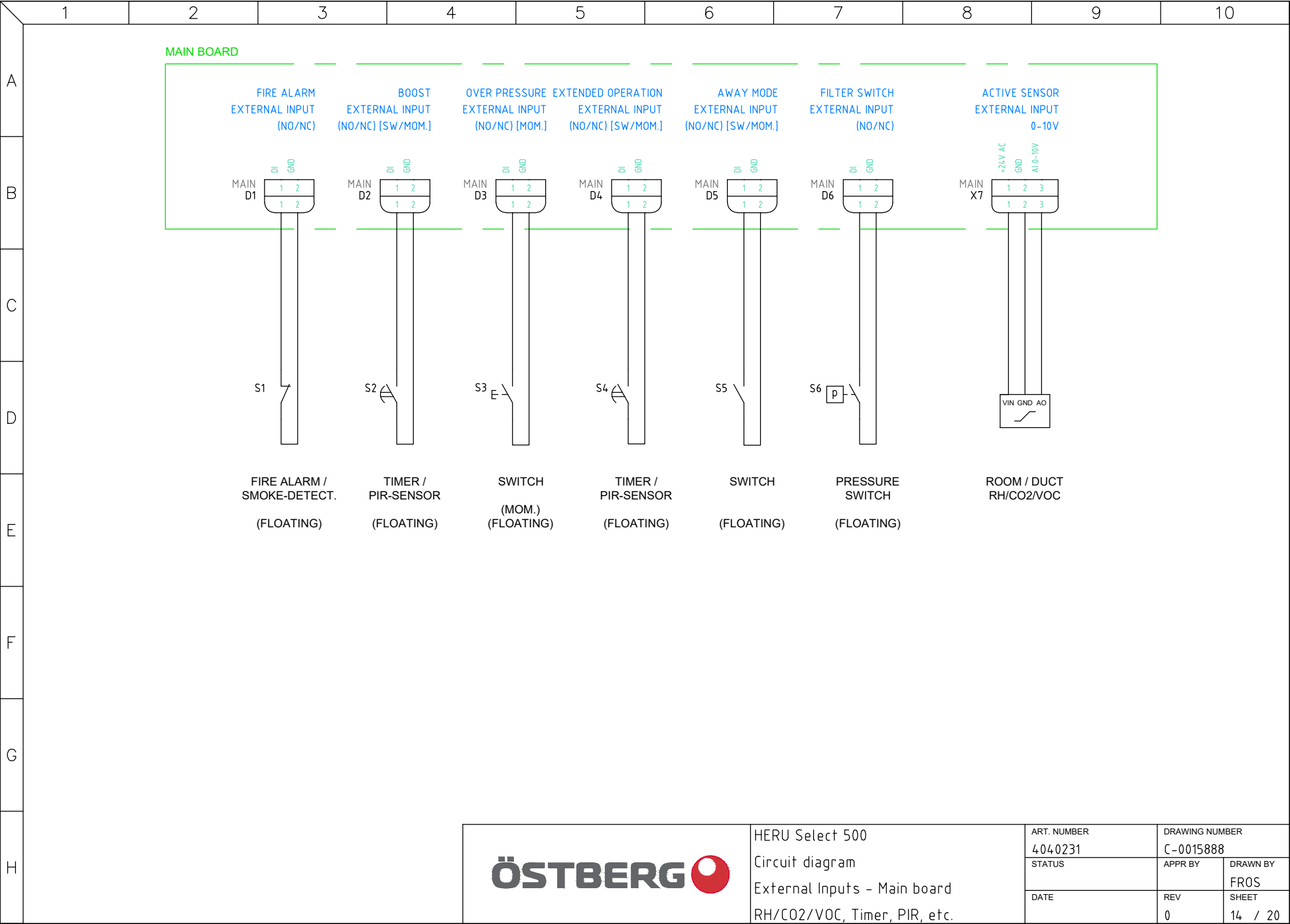


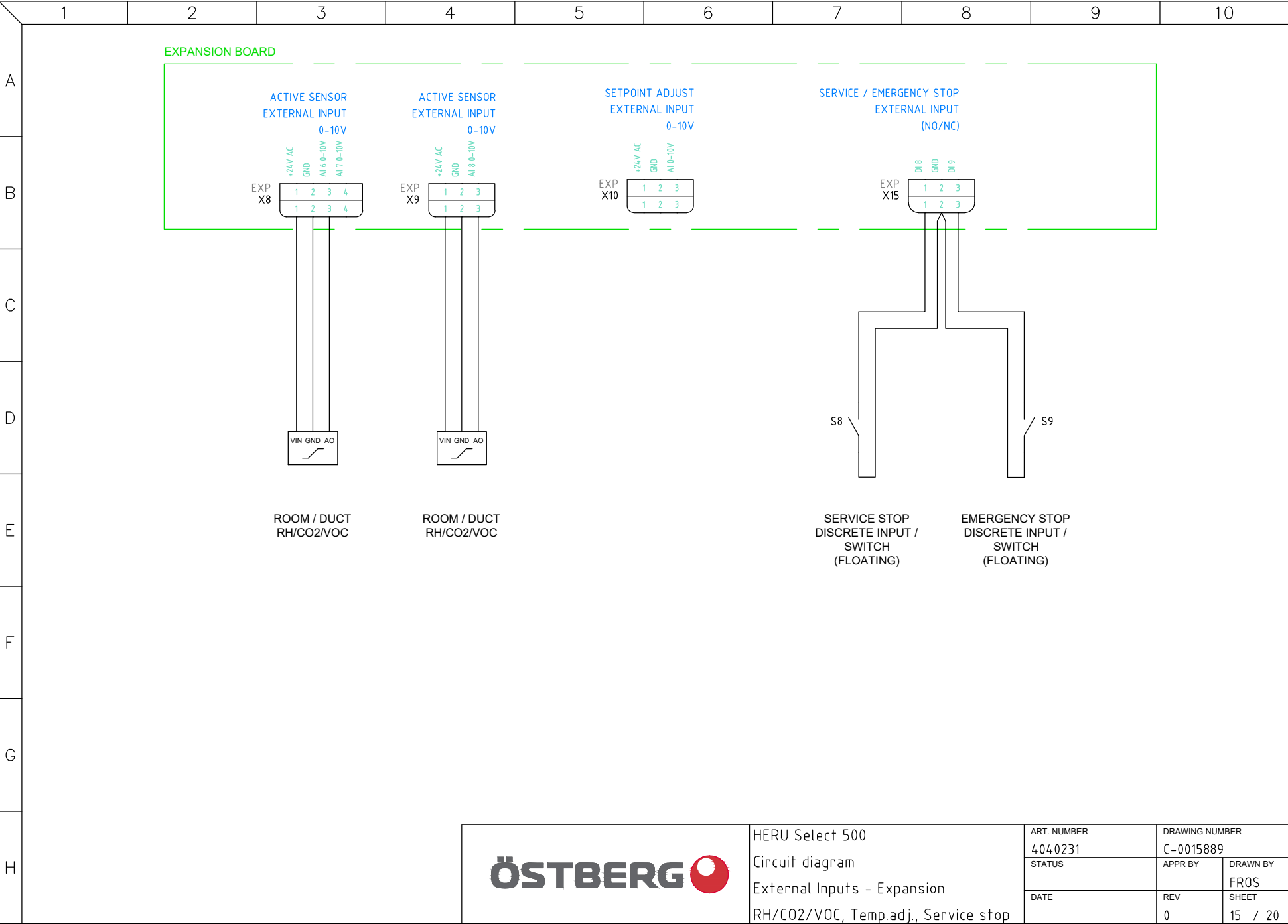






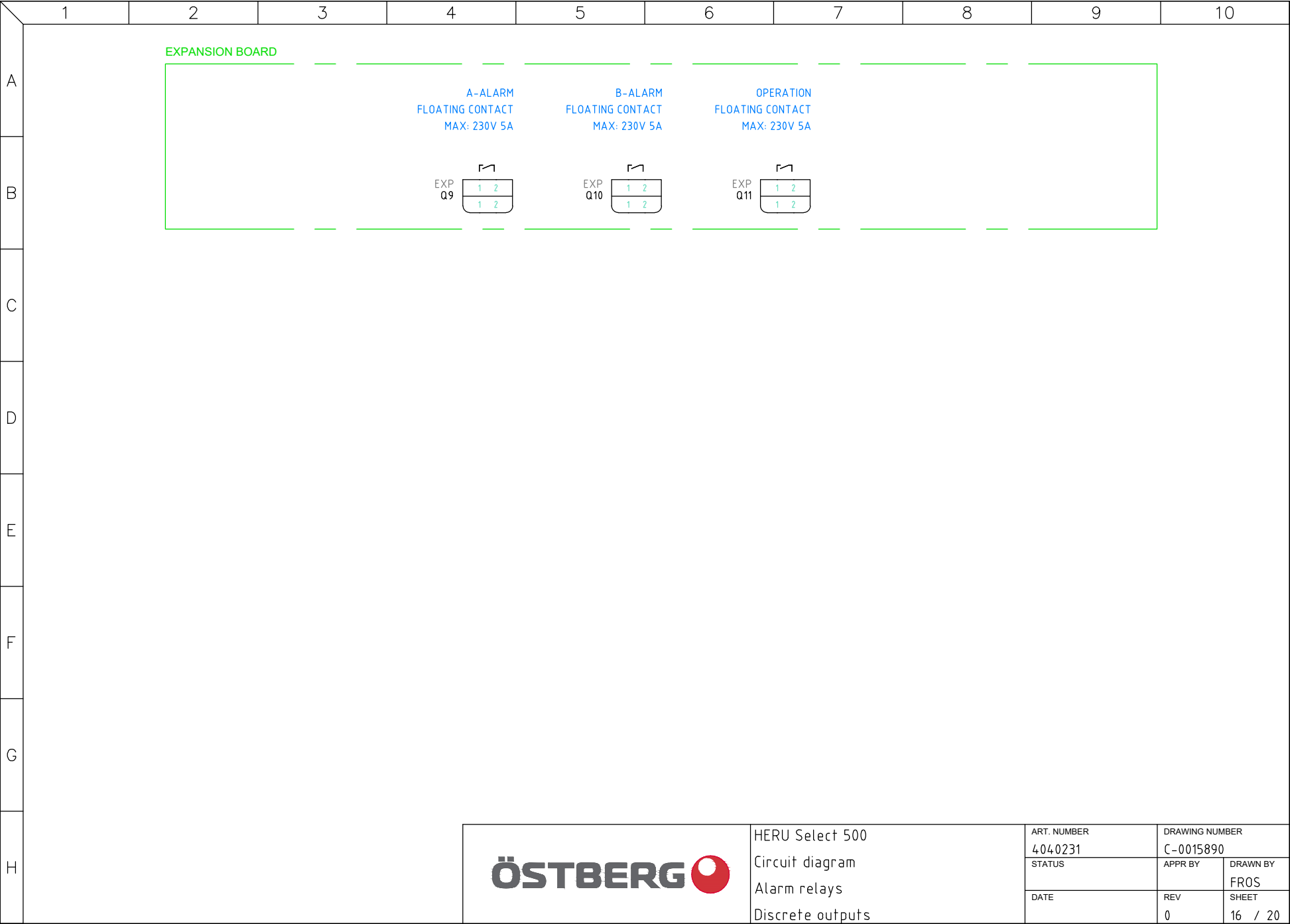


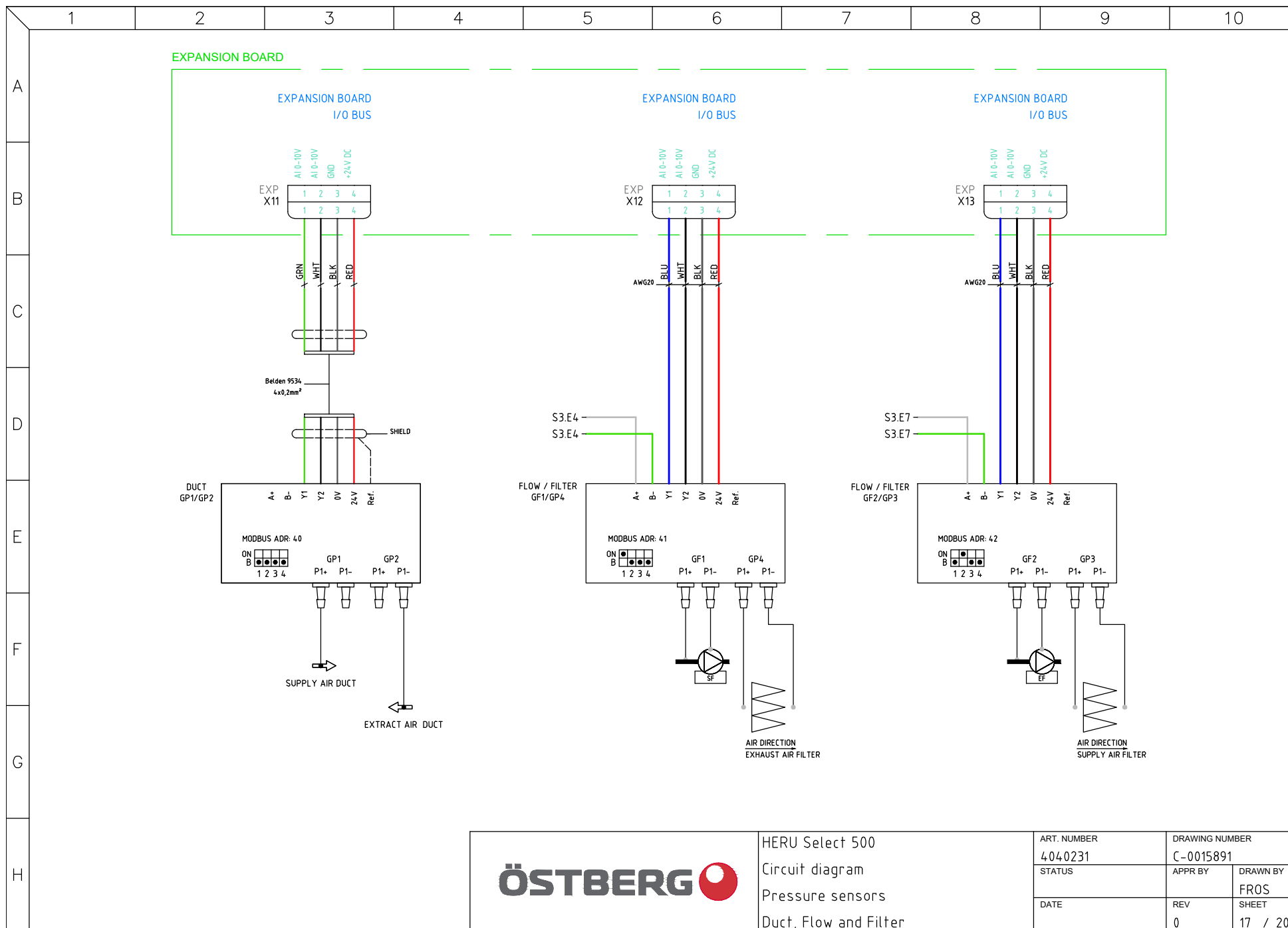




HERU Select 500
Circuit diagram
External Inputs - Expansion
RH/CO2/VOC, Temp.adj., Service stop

ART. NUMBER 4040231	DRAWING NUMBER C-0015889	
STATUS	APPR BY	DRAWN BY FROS
DATE	REV 0	SHEET 15 / 20





HERU Select 500

Circuit diagram

Pressure sensors

Duct, Flow and Filter

ART. NUMBER 404.0231		DRAWING NUMBER C-0015891	
STATUS	APPR BY	DRAWN BY FROS	
DATE	REV 0	SHEET 17 / 20	

	1	2	3	4	5	6	7	8	9	10
A										
B	SH1	IECCMP1	PIN1	WLAY1	SH2	IECCMP2	PIN2	SH1	IECCMP1	PIN1
	1	+EMI-BOX-MAIN	L1	RQ 1.5mm2-BRN	1	EMI-Filter	L1	2	-CN2	12
	1	+EMI-BOX-MAIN	N	RQ 1.5mm2-BLU	1	EMI-Filter	N	2	-CN2	13
C	1	+EMI-BOX-MAIN	PE	RQ 1.5mm2-GRNYEL	1	EMI-Filter	PE	2	-CN2	16
	1	EMI-Filter	L1'	RQ 1.5mm2-BRN	1	+EMI-BOX-LOAD	L1	4	-Motor Controller	L
	1	EMI-Filter	N'	RQ 1.5mm2-BLU	1	+EMI-BOX-LOAD	N	4	-Motor Controller	N
D	1	+EMI-BOX-LOAD	L1	H05VV-F 1.5mm2-BRN	1	-MAIN	L	4	-Motor Controller	PE
	1	+EMI-BOX-LOAD	N	H05VV-F 1.5mm2-BLU	1	-MAIN	N	4	-Motor Controller	2
	1	+EMI-BOX-LOAD	PE	H05VV-F 1.5mm2-GRNYEL	1	-MAIN	PE	4	-Motor Controller	3
E	1	-MAIN	L	UL 1007-AWG 16-BRN	1	F3 Fuse	2	4	-Motor Controller	3
	1	F3 Fuse	1	UL 1007-AWG 16-BRN	1	-INT	L1	4	-Motor Controller	13
	1	-MAIN	N	UL 1007-AWG 16-BLU	1	-INT	N	4	-Motor Controller	A
F	1	-INT	L1	UL 1007-AWG 16-BRN	1	+PS-PS-CN1	3	4	-Motor Controller	B
	1	-INT	N	UL 1007-AWG 16-BLU	1	+PS-PS-CN1	1	4	-INT	N
	1	-INT	PE	UL 1007-AWG 20-GRNYEL	1	+PS-PE	1	4	-INT	PE
G	1	-INT	PE	UL 1007-AWG 16-GRNYEL	1	+MAIN-PE	1	4	-INT	L1
	1	+MAIN-Exp.	2	UL 1007-AWG 16-BRN	1	+EXP-EXP-IN	1	4	-M3-X1	6
	1	+MAIN-Exp.	3	UL 1007-AWG 16-BLU	1	+EXP-EXP-IN	2	4	-MB-X1	1
H	1	-DC 24V	+	UL 1007-AWG 20-RED	1	+PS-PS-CN2	2	4	-M3-X1	12
	1	-DC 24V	-	UL 1007-AWG 20-BLK	1	+PS-PS-CN2	1	4	-MB-X1	2
	2	-F1 Fuse	2	UL 1007-AWG 16-BRN	2	-MAIN	L	4	+MAIN-DI-2W	1
I	2	-F1 Fuse	2	UL 1007-AWG 16-BRN	2	-F2 Fuse	2	4	+MAIN-DI-2W	2
	2	-F1 Fuse	1	UL 1007-AWG 16-BRN	2	-CN1	10	4	+MAIN-X3	2
	2	-F2 Fuse	1	UL 1007-AWG 16-BRN	2	-CN2	10	4	+MAIN-X3	3
J	2	-INT	N	UL 1007-AWG 16-BLU	2	-CN2	9	4	+MAIN-X3	4
	2	-INT	N	UL 1007-AWG 16-BLU	2	-CN1	9	4	+MAIN-X3	5
	2	-INT	PE	UL 1007-AWG 16-GRNYEL	2	-CN2	1	4	+MAIN-X3	6
K	2	-INT	PE	UL 1007-AWG 16-GRNYEL	2	-CN1	1	4	-DC 24V	+
	2	+MAIN-X1	1	UL 1007-AWG 20-YEL	2	-CN1	13	4	-DC 24V	-
	2	+MAIN-X1	2	UL 1007-AWG 20-WHT	2	-CN1	4	5	+MAIN-T1	1
L	2	+MAIN-X1	3	UL 1007-AWG 20-BLK	2	-CN1	5	5	+MAIN-T1	2
	2	-CN1	1	UL 1007-AWG 16-GRNYEL	3	-M1-X1	1	5	+MAIN-T2	1
	2	-CN1	4	UL 1007-AWG 20-WHT	3	-M1-X1	4	5	+MAIN-T2	2
M	2	-CN1	5	UL 1007-AWG 20-BLK	3	-M1-X1	5	5	+MAIN-T3	1
	2	-CN1	5	UL 1007-AWG 20-GRY	2	-CN1	12	5	+MAIN-T3	2
	2	-CN1	8	UL 1007-AWG 22-GRY	3	-M1-X1	6	5	+MAIN-T4	1
N	2	-CN1	9	UL 1007-AWG 16-BLU	3	-M1-X1	7	5	+MAIN-T4	2
	2	-CN1	10	UL 1007-AWG 16-BRN	3	-M1-X1	8	5	+MAIN-T6	1
	2	-CN1	12	UL 1007-AWG 20-GRY	3	-M1-X1	10	5	+MAIN-T6	2
O	2	-CN1	13	UL 1007-AWG 20-YEL	3	-M1-X1	11	6	+HT-TP-M	1
	2	-CN1	16	UL 1007-AWG 22-GRN	3	-M1-X1	12	6	-HT-R	6
	2	+MAIN-X2	1	UL 1007-AWG 20-YEL	2	-CN2	13	6	-HT-R	12
P	2	+MAIN-X2	2	UL 1007-AWG 20-WHT	2	-CN2	4	6	-HT-X	1
	2	+MAIN-X2	3	UL 1007-AWG 20-BLK	2	-CN2	5	6	-HT-X	2
	2	-CN2	1	UL 1007-AWG 16-GRNYEL	3	-M2-X1	1	6	-HT-X	4
Q	2	-CN2	4	UL 1007-AWG 20-WHT	3	-M2-X1	4	6	-HT-X	7
	2	-CN2	5	UL 1007-AWG 20-BLK	3	-M2-X1	5	6	-HT-X	8
	2	-CN2	5	UL 1007-AWG 20-GRY	2	-CN2	12	6	-HT-X	10
R	2	-CN2	8	UL 1007-AWG 22-GRY	3	-M2-X1	6	6	-INT	N
	2	-CN2	9	UL 1007-AWG 16-BLU	3	-M2-X1	7	6	-INT	L1
	2	-CN2	10	UL 1007-AWG 16-BRN	3	-M2-X1	8	6	+HT-COIL R1:1	2
S	6	+HT-COIL R1:1	2	RQ 2.5mm2-BRN	6	+HT-COIL R1:2	2	6	+HT-COIL R1:2	2
	6	+HT-COIL R1:2	2	RQ 2.5mm2-BRN	6	+HT-COIL R1:3	2	6	+HT-COIL R1:3	2
	6	+HT-COIL R1:2	2	RQ 2.5mm2-BRN	6	+HT-COIL R1:3	2	6	+HT-COIL R1:3	2
T										
U										
V										
W										
X										
Y										
Z										
AA										
AB										
AC										
AD										
AE										
AF										
AG										
AH										
AI										
AJ										
AK										
AL										
AM										
AN										
AO										
AP										

HERU Select 500

Circuit diagram

Wire Run List

ART. NUMBER

4040231

STATUS

DATE

DRAWING NUMBER

C-0015893

APPR BY

REV

DRAWN BY

FROS


SHEET

19 / 20

	1	2	3	4	5	6	7	8	9	10
A										
B										
C										
D										
E										
F										
G										
H										

SH1	IECCMP1	PIN1	WLAY1	SH2	IECCMP2	PIN2
6	+HT-HT-X1	2	UL 1007-AWG 20-YEL	6	+XC305-X3	2
6	+HT-HT-X1	2	UL 1007-AWG 20-YEL	6	+XC305-X3	2
6	+HT-K1	2 T1	UL 1015-AWG 16-BRN	6	+XC305-X1	1
6	+HT-K1	A2	RQ 1.5mm2-BLK	6	+HT-TP-M	2
6	+HT-K1	4 T2	RQ 2.5mm2-BLK	6	+XC305-X1	1
6	+HT-K1	6 T3	RQ 2.5mm2-GRY	6	+HT-COIL R1:3	1
6	+HT-HT-X2	1	UL 1007-AWG 20-BLK	6	+XC305-X3	3
6	+HT-HT-X2	1	UL 1007-AWG 20-BLK	6	+XC305-X3	3
6	+HT-HT-X2	2	UL 1007-AWG 20-WHT	6	+XC305-X3	4
6	+HT-HT-X2	2	UL 1007-AWG 20-WHT	6	+XC305-X3	4
6	+HT-X3	1	RQ 1.5mm2-BLU	6	+HT-TP-A	2
6	+MAIN-RC-X5 (R)	1	UL 1007-AWG 20-RED	6	-HT-R	2
6	+MAIN-RC-X5 (R)	2	UL 1007-AWG 20-ORG	6	-HT-R	3
6	+MAIN-RC-X5 (R)	3	UL 1007-AWG 20-YEL	6	-HT-R	4
6	+MAIN-RC-X5 (R)	4	UL 1007-AWG 20-BLK	6	-HT-R	8
6	+MAIN-RC-X5 (R)	6	UL 1007-AWG 20-WHT	6	-HT-R	10
6	+MAIN-D7	1	RQ 0.75mm2-BRN	6	-GP5	1
6	+MAIN-D7	2	RQ 0.75mm2-BLU	6	-GP5	2
6	+XC305-X3	1	UL 1007-AWG 20-RED	6	+HT-HT-X1	1
6	+XC305-X3	1	UL 1007-AWG 20-RED	6	+HT-HT-X1	1
6	+XC305-X4	1	UL 1015-AWG 16-BLK	6	+HT-COIL R1:2	1
6	+XC305-X4	1	UL 1015-AWG 16-BRN	6	+HT-COIL R1:1	1
7	+HT-TP-M	1	RQ 1.5mm2-BLK	7	+HT-TP-A	1
7	-HT-L	6	UL 1007-AWG 22-GRY	2	-CN2	8
7	-HT-L	12	UL 1007-AWG 22-GRN	2	-CN2	16
7	-HT-X	1	UL 1007-AWG 16-BRN	7	+HT-K1	A1
7	-HT-X	2	UL 1007-AWG 20-RED	7	+HT-HT-X1	1
7	-HT-X	4	UL 1007-AWG 20-YEL	7	+HT-HT-X1	2
7	-HT-X	7	UL 1007-AWG 16-BLU	7	+HT-X3	1
7	-HT-X	8	UL 1007-AWG 20-BLK	7	+HT-HT-X2	1
7	-HT-X	10	UL 1007-AWG 20-WHT	7	+HT-HT-X2	2
7	-INT	N	UL 1007-AWG 16-BLU	7	-HT-L	7
7	-INT	L1	UL 1007-AWG 16-BRN	7	-HT-L	1
7	+HT-COIL R1:1	2	RQ 2.5mm2-BRN	7	+HT-COIL R1:2	2
7	+HT-COIL R1:2	2	RQ 2.5mm2-BRN	7	+HT-COIL R1:3	2
7	+HT-HT-X1	2	UL 1007-AWG 20-YEL	7	+XC305-X3	2
7	+HT-HT-X1	2	UL 1007-AWG 20-YEL	7	+XC305-X3	2
7	+HT-K1	2 T1	UL 1015-AWG 16-BRN	7	+XC305-X1	1
7	+HT-K1	A2	RQ 1.5mm2-BLK	7	+HT-TP-M	2
7	+HT-K1	4 T2	RQ 2.5mm2-BLK	7	+XC305-X1	1
7	+HT-K1	6 T3	RQ 2.5mm2-GRY	7	+HT-COIL R1:3	1
7	+HT-HT-X2	1	UL 1007-AWG 20-BLK	7	+XC305-X3	3
7	+HT-HT-X2	1	UL 1007-AWG 20-BLK	7	+XC305-X3	3
7	+HT-HT-X2	2	UL 1007-AWG 20-WHT	7	+XC305-X3	4
7	+HT-HT-X2	2	UL 1007-AWG 20-WHT	7	+XC305-X3	4
7	+HT-X3	1	RQ 1.5mm2-BLU	7	+HT-TP-A	2
7	+MAIN-RC-X5 (L)	1	UL 1007-AWG 20-RED	7	-HT-L	2
7	+MAIN-RC-X5 (L)	2	UL 1007-AWG 20-ORG	7	-HT-L	3
7	+MAIN-RC-X5 (L)	3	UL 1007-AWG 20-YEL	7	-HT-L	4
7	+MAIN-RC-X5 (L)	4	UL 1007-AWG 20-BLK	7	-HT-L	8
7	+MAIN-RC-X5 (L)	6	UL 1007-AWG 20-WHT	7	-HT-L	10

SH1	IECCMP1	PIN1	WLAY1	SH2	IECCMP2	PIN2
7	+MAIN-D7	1	RQ 0.75mm2-BRN	7	-GP5	1
7	+MAIN-D7	2	RQ 0.75mm2-BLU	7	-GP5	21
7	+XC305-X3	1	UL 1007-AWG 20-RED	7	+HT-HT-X1	1
7	+XC305-X3	1	UL 1007-AWG 20-RED	7	+HT-HT-X1	1
7	+XC305-X4	1	UL 1015-AWG 16-BLK	7	+HT-COIL R1:2	1
7	+XC305-X4	1	UL 1015-AWG 16-BRN	7	+HT-COIL R1:1	1
8	-HT-X	5	UL 1007-AWG 20-BLU	8	-GT5	1
8	-HT-X	11	UL 1007-AWG 20-WHT	8	-GT5	2
8	+MAIN-RC-T5 (R)	1	UL 1007-AWG 20-BLU	8	-HT-R	5
8	+MAIN-RC-T5 (R)	2	UL 1007-AWG 20-WHT	8	-HT-R	11
9	-HT-X	5	UL 1007-AWG 20-BLU	9	-GT5	1
9	-HT-X	11	UL 1007-AWG 20-WHT	9	-GT5	2
9	+MAIN-RC-T5 (L)	1	UL 1007-AWG 20-BLU	9	-HT-L	5
9	+MAIN-RC-T5 (L)	2	UL 1007-AWG 20-WHT	9	-HT-L	11
10	-HT-X	5	UL 1007-AWG 20-BLU	10	-GT5	1
10	-HT-X	11	UL 1007-AWG 20-WHT	10	-GT5	2
10	+MAIN-RC-T5 (R)	1	UL 1007-AWG 20-BLU	10	-HT-R	5
10	+MAIN-RC-T5 (R)	2	UL 1007-AWG 20-WHT	10	-HT-R	11
11	-HT-X	5	UL 1007-AWG 20-BLU	11	-GT5	1
11	-HT-X	11	UL 1007-AWG 20-WHT	11	-GT5	2
11	+MAIN-RC-T5 (L)	1	UL 1007-AWG 20-BLU	11	-HT-L	5
11	+MAIN-RC-T5 (L)	2	UL 1007-AWG 20-WHT	11	-HT-L	11
17	+EXP-X11	1	UL 1007-AWG 24-GRN	17	-DUCT GP1/GP2	Y1
17	+EXP-X11	2	UL 1007-AWG 24-WHT	17	-DUCT GP1/GP2	Y2
17	+EXP-X11	3	UL 1007-AWG 24-BLK	17	-DUCT GP1/GP2	0V
17	+EXP-X11	4	UL 1007-AWG 24-RED	17	-DUCT GP1/GP2	24V
17	+EXP-X12	1	UL 1007-AWG 20-BLU	17	-FLOW/FILTER GF1/GP4	Y1
17	+EXP-X12	2	UL 1007-AWG 20-WHT	17	-FLOW/FILTER GF1/GP4	Y2
17	+EXP-X12	3	UL 1007-AWG 20-BLK	17	-FLOW/FILTER GF1/GP4	0V
17	+EXP-X12	4	UL 1007-AWG 20-RED	17	-FLOW/FILTER GF1/GP4	24V
17	+EXP-X13	1	UL 1007-AWG 20-BLU	17	-FLOW/FILTER GF2/GP3	Y1
17	+EXP-X13	2	UL 1007-AWG 20-WHT	17	-FLOW/FILTER GF2/GP3	Y2
17	+EXP-X13	3	UL 1007-AWG 20-BLK	17	-FLOW/FILTER GF2/GP3	0V
17	+EXP-X13	4	UL 1007-AWG 20-RED	17	-FLOW/FILTER GF2/GP3	24V
18	+EXP-AIP-A	1	UL 1007-AWG 22-GRN	4	-M3-X1	12
18	+EXP-AIP-A	2	UL 1007-AWG 22-GRY	4	-M3-X1	6
18	+EXP-AIP-B	1	UL 1007-AWG 22-GRN	7	-HT-L	12
18	+EXP-AIP-B	2	UL 1007-AWG 22-GRY	7	-HT-L	6
18	+MAIN-I/O BUS	1	UL 1007-AWG 24-GRN	18	+EXP-I/O-BUS:1	1
18	+MAIN-I/O BUS	2	UL 1007-AWG 24-WHT	18	+EXP-I/O-BUS:1	2
18	+MAIN-I/O BUS	3	UL 1007-AWG 24-BLK	18	+EXP-I/O-BUS:1	3
18	+MAIN-I/O BUS	4	UL 1007-AWG 24-RED	18	+EXP-I/O-BUS:1	4

		HERU Select 500 Circuit diagram Wire Run List	ART. NUMBER 4040231 STATUS DATE	DRAWING NUMBER C-0015894 APPR BY REV 0	DRAWN BY FROS SHEET 20 / 20
--	--	---	--	--	--------------------------------------