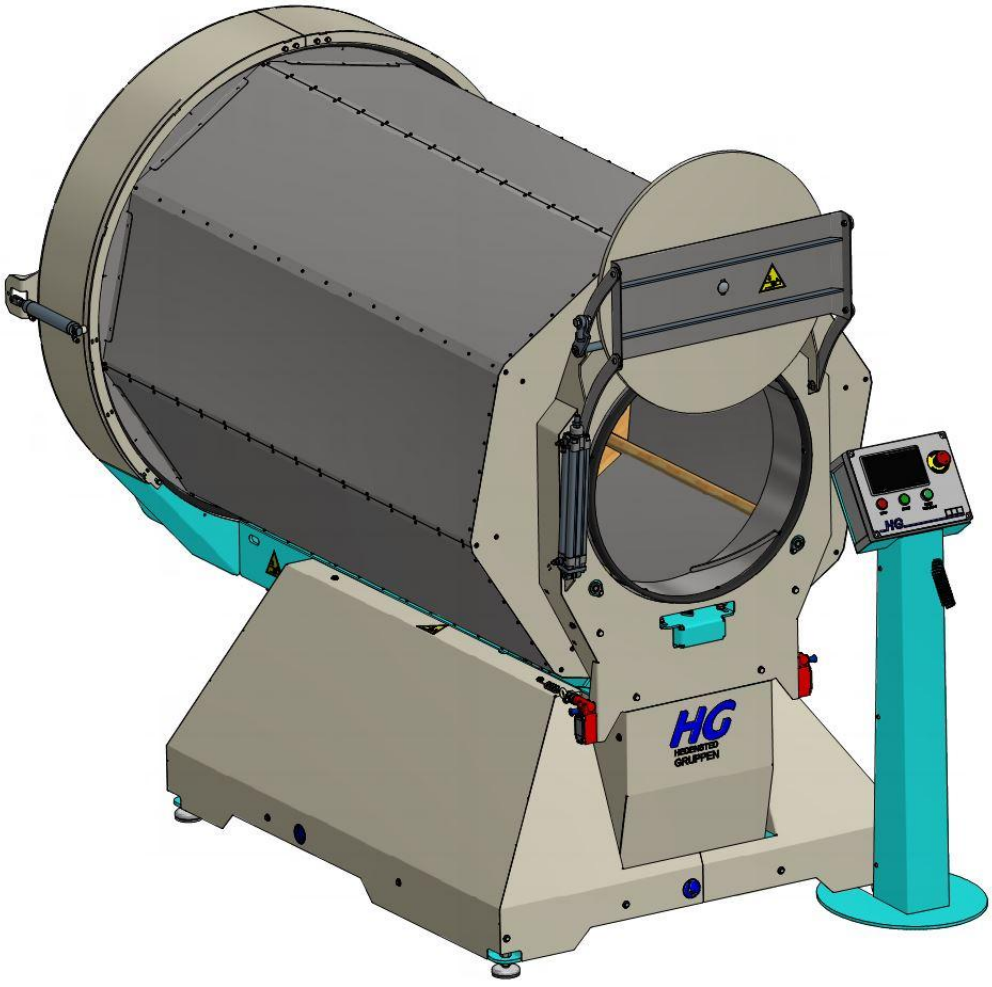
SPARE PARTS

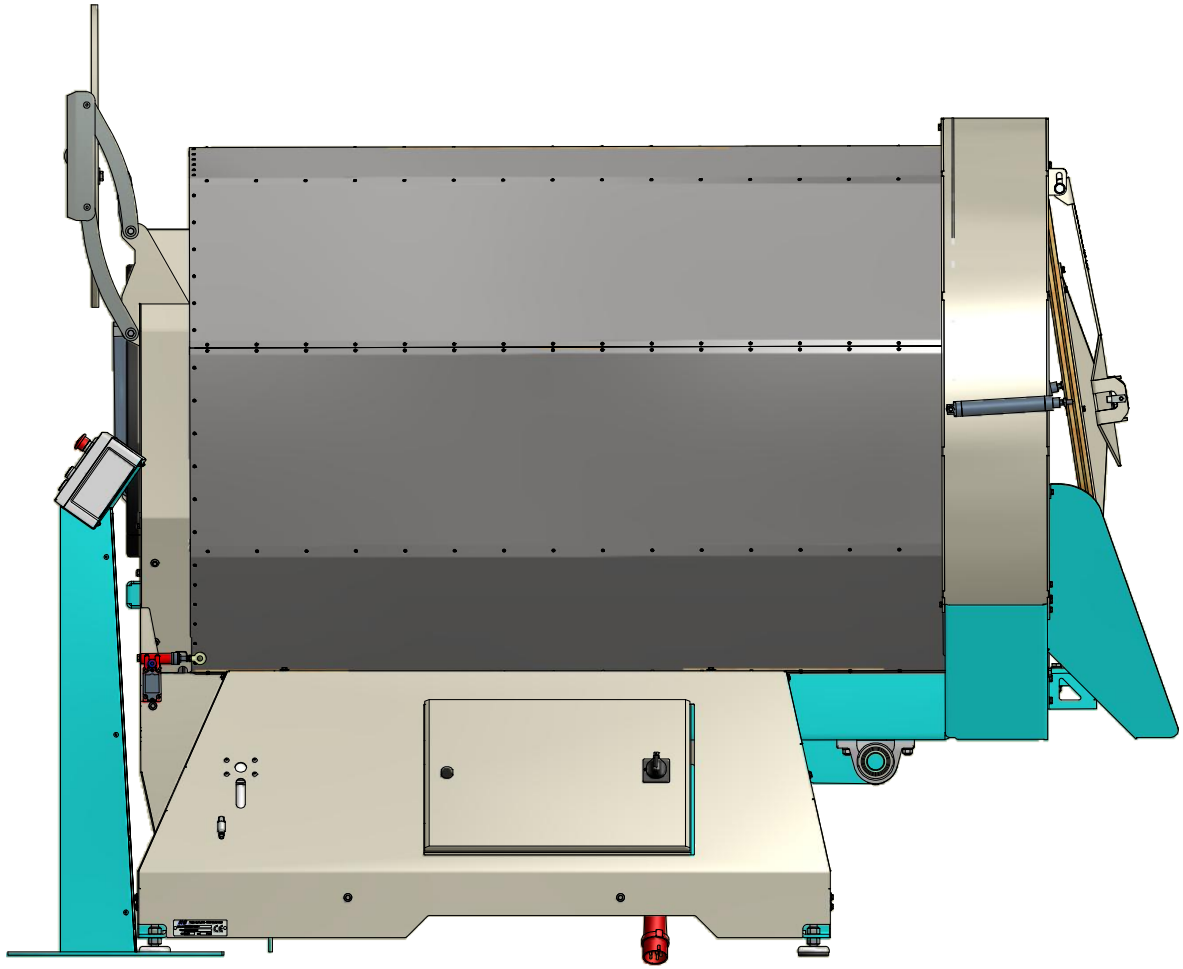


Skindrum 16

Model 2015-2016

1. Table of contents.

1. Table of content.
2. Spare parts.
3. Electric diagrams.
4. Air diagrams.



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	36	11406010	Hexagon bolt M6x10 FZB
2	4	11408025	Hexagon bolt M8x25 FZB
3	2	11412035	Hexagon bolt M12x35 FZB
4	4	17908000	Self-locking nut M8 FZB
5	2	19767	HG Logo - big 205x108mm
6	10	82106000	Washer M6 FZB
7	8	82108000	Washer M8 FZB
8	2	82112000	Washer M12 FZB
9	26	82606000	Washer Ø6,4x18x1,6 FZB
10	1	M101472	Control tower
11	1	M102077	Shaft for gate
12	1	M102079	
13	1	M102084	Funnel for exit
14	1	M102089	Skind drum Subassembly
15	1	M102096	Motor cover
16	1	M102101	Right cover assembly
17	1	M102103	Left side cover
18	1	M102106	Foot cover end
19	1	M102107	Foot cover end
20	1	M102108	Foot - End cover

Break all edges

Revision:	Approved	Date:	Revision Description
1	MRH	31-05-2016	Made

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HEDENSTED GRUPPEN A/S

HEDENSTED GRUPPEN

Scale: 1 : 12

Not specificed tolerance according to: DS/ISO 2768-m

Sheet size: A3

Surface properties: No

Sheet: 1 /1

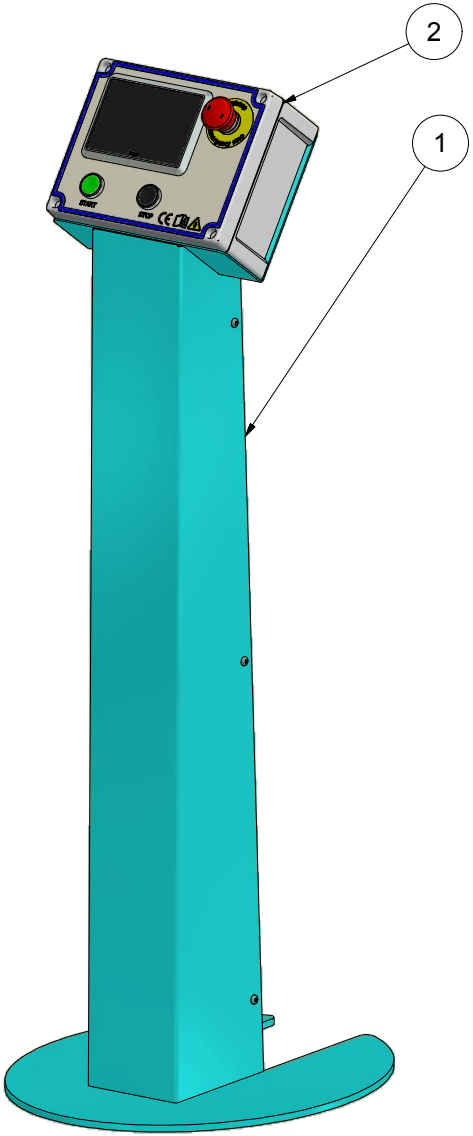
Part No.: 190069

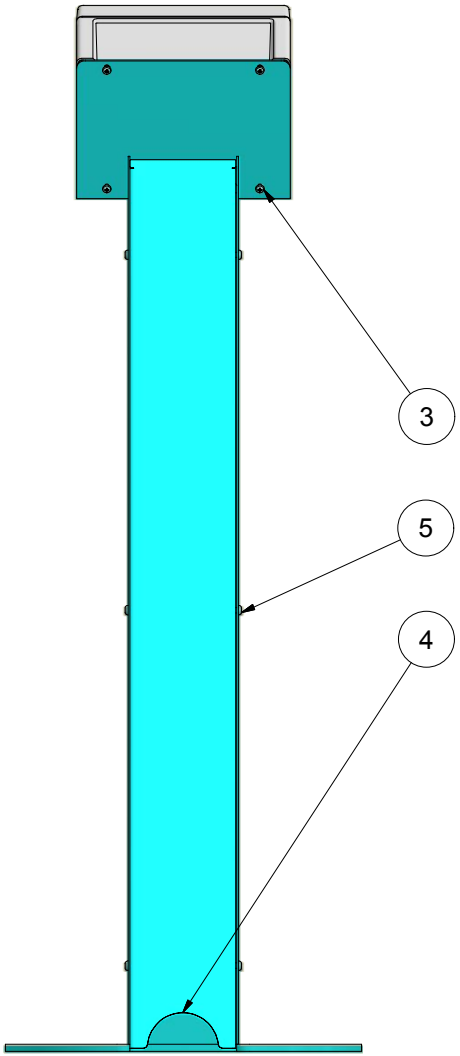
Material:

Description 1: Skin drum

Description 2: Selfemptying

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	M101468	Consol for El box
2	1	M101470	Control box
3	4	140872	Wood screw 5x16
4	1	M101471	Lidt for consol
5	6	76006012	Buttonhead bolt M6x12 FZB





Breake all edges

Revision:	Approved	Date:	Revision Description
1	HG	27-09-2015	Revision changed to numeric

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HEDENSTED GRUPPEN A/S

HEDENSTED GRUPPEN

Scale: 1 : 6

Not specificed tolerance according to: DS/ISO 2768-m

Sheet size: A3

Surface properties: No

Sheet: 1 /1

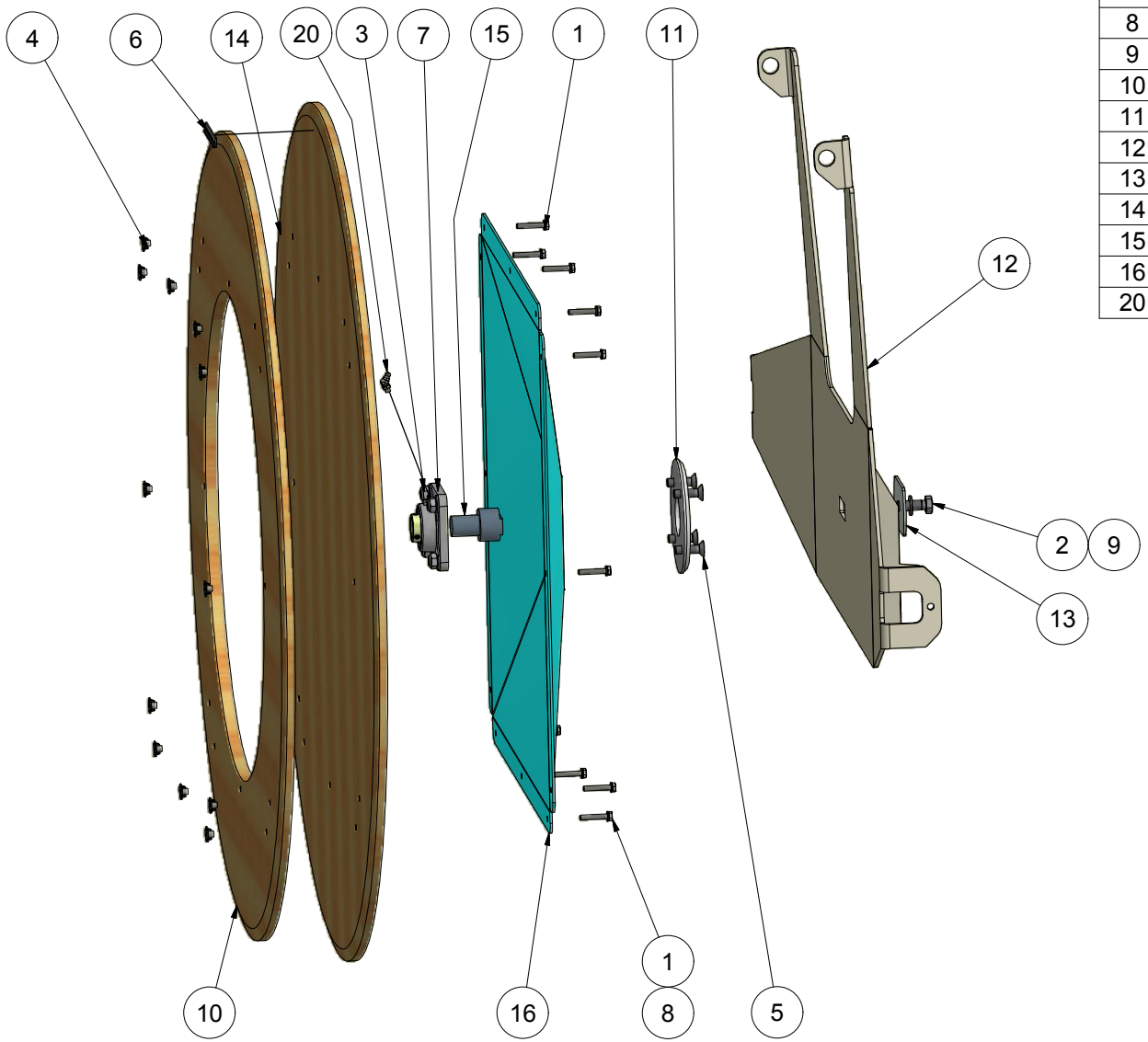
Part No.: M101472

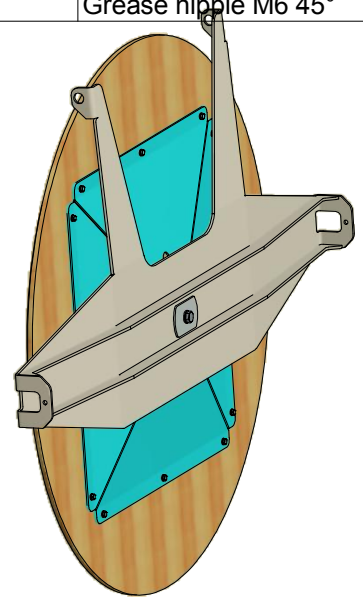
Material:

Description 1: Control tower

Description 2:

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	12	11406035	Hexagon bolt M6x35 FZB
2	1	11412035	Hexagon bolt M12x35 FZB
3	4	17910000	Self-locking nut M10 FZB
4	12	19206000	Drive in nut M6 FZB
5	4	20410035	Hexagon countersunk head M10x35 FZB
6	3,3 m	41592	Sealing strip
7	1	473089	Y-Bearing flange Ø25
8	12	82106000	Washer M6 FZB
9	1	82112000	Washer M12 FZB
10	1	M102063	Inne Plate for ring
11	1	M102076	Support spacer
12	1	M102078	Lid for gate
13	1	M102085	Washer for shaft
14	1	M102092	Lid for output
15	1	M102093	Shaft for lid
16	1	M102097	Lid press
20	1	426392	Grease nipple M6 45°





Break all edges

Revision:	Approved	Date:	Revision Description
3	KM	31-05-2017	Added 45 gr. nipple

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HEDENSTED GRUPPEN A/S

HEDENSTED GRUPPEN

Scale: 1 : 6

Not specificed tolerance according to: DS/ISO 2768-m

Sheet size: A3

Surface properties: No

Sheet: 1 /2

Part No.: M102079

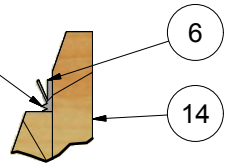
Material:

Description 1: Gate assembly

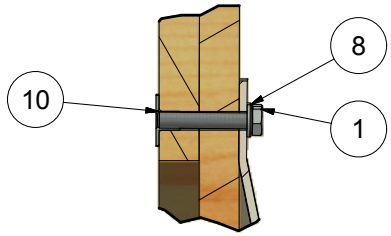
Description 2:

D (1 : 2)

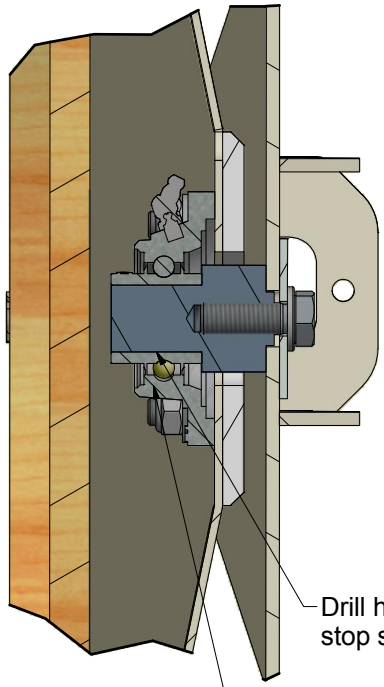
Cut weather strip every 30mm to bend and mount clamps by 30mm intervals.

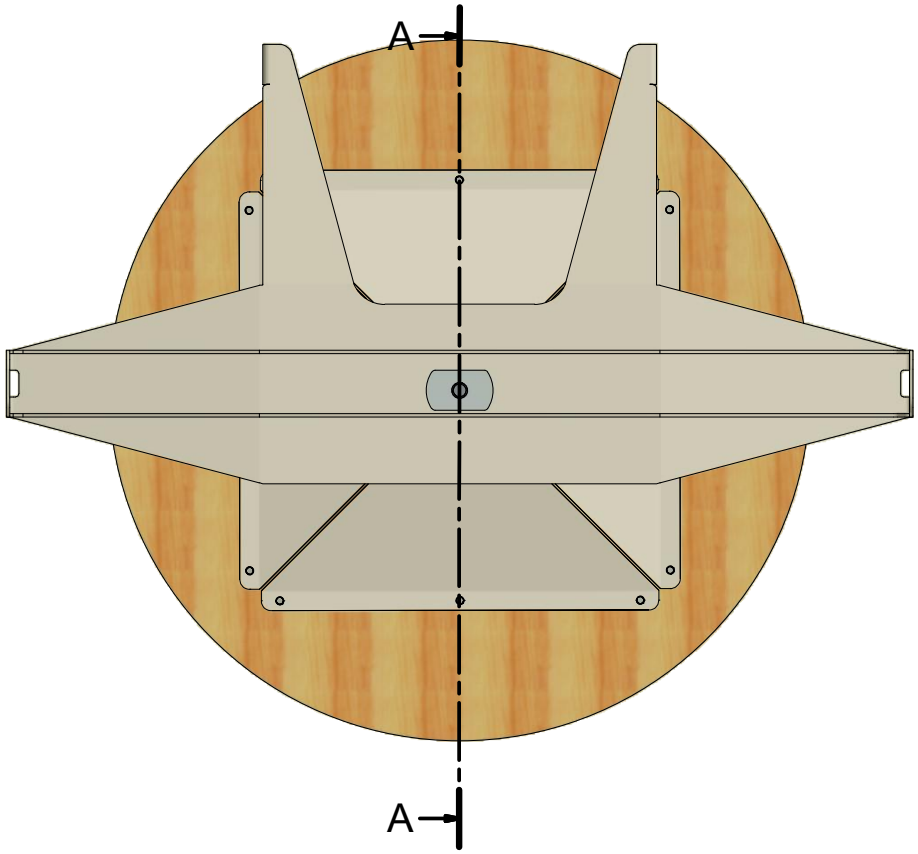


C (1 : 2)

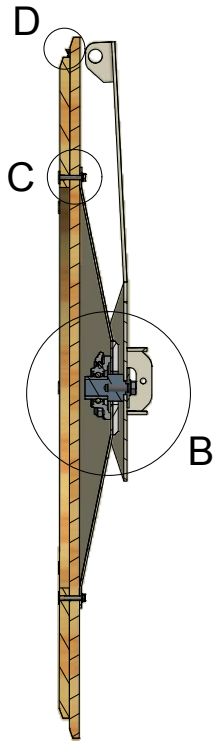


B (1 : 2)





A-A (1 : 8)



Break all edges

Revision:	Approved	Date:	Revision Description
3	KM	31-05-2017	Added 45 gr. nipple

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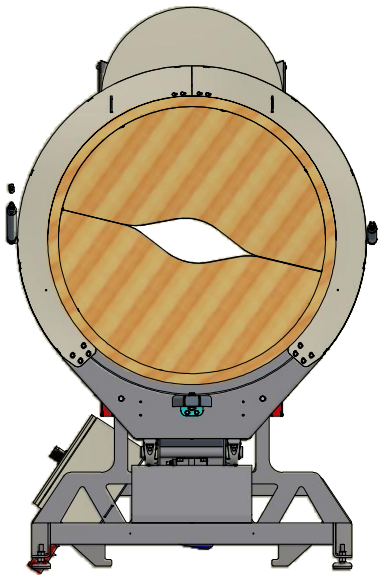
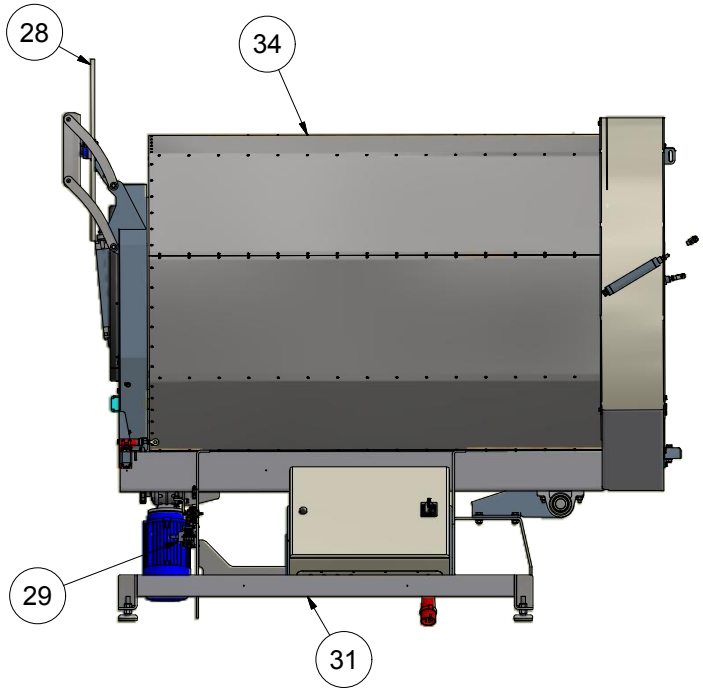
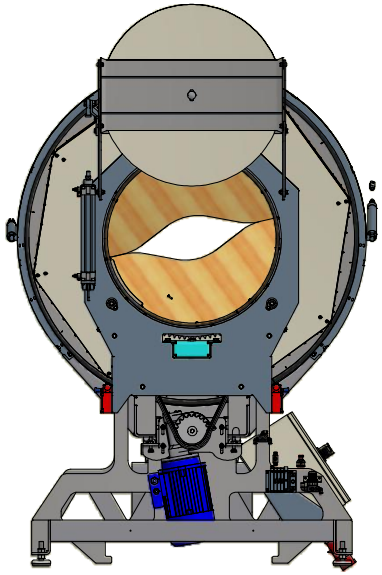
HEDENSTED GRUPPEN

Scale: 1 : 6	Not specificed tolerance according to: DS/ISO 2768-m	Sheet size: A3
	Surface properties: No	Sheet: 2 /2
Part No.: M102079	Material:	
Description 1: Gate assembly		
Description 2:		







PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	10204016	Hexagon cylinder head M4x16 FZB
2	2	11405008	Hexagon bolt M5x08 FZB
3	10	11406010	Hexagon bolt M6x10 FZB
4	4	11406016	Hexagon bolt M6x16 FZB
5	8	11408012	Hexagon bolt M8x12 FZB
6	4	11408016	Hexagon bolt M8x16 FZB
7	3	140854	Wood screw pan head 3,5 x 20
8	1	206694	Nut, panel mount 2962-89
9	2	210427	Lock nut M10x1,25 FZB
10	2	214130	F-Bracket QM/57032/25
11	1	214180	C-Bracket M/P71273/3
12	1	215405	Valve, shuttle 1/8"
13	2	215620	Flow control In-line Ø6 x Ø6
14	4	215760	Elbow swirvel Ø6 x 1/8"
15	1	215870	Y-connector 2xØ8 x Ø8
16	1	216205	Regulator 1/8" 0,3-3,5 bar
17	1	216536	Elbow swivel Ø8 x 1/8"
18	2	216748	Plug Ø6 mm
19	24	7003205	Blind rivet Ø3,2x5 (1-2,5)
20	4	82104000	Washer M4 FZB
21	10	82106000	Washer M6 FZB
22	12	82108000	Washer M8 FZB
23	2	82605000	Washer Ø5,3x15x1,2 FZB
24	4	82606000	Washer Ø6,4x18x1,6 FZB
25	8	M101201	Dust shield
26	2	M101413	Dust cover binder
27	3,92 m	M101475	Brush FBL1310-K20
28	1	M101481	Front lid assembly
29	1	M101643	Ramp valve AV03x4-DSUB25
30	2	M102075	Cylinder RT-57232-M-160
31	1	M102087	Drum frame assembly
32	1	M102104	Dust cover Left
33	1	M102105	Right dust cover
34	1	M102109	Drum assembly
35	3,00 m	M200085	Roller chain 12B1 3/4"
36	1	M200087	Chain connection 12B1

Break all edges

Revision:	Approved	Date:	Revision Description
2	MBO	20-03-2017	2x216748, 8x11408010+82108000 added

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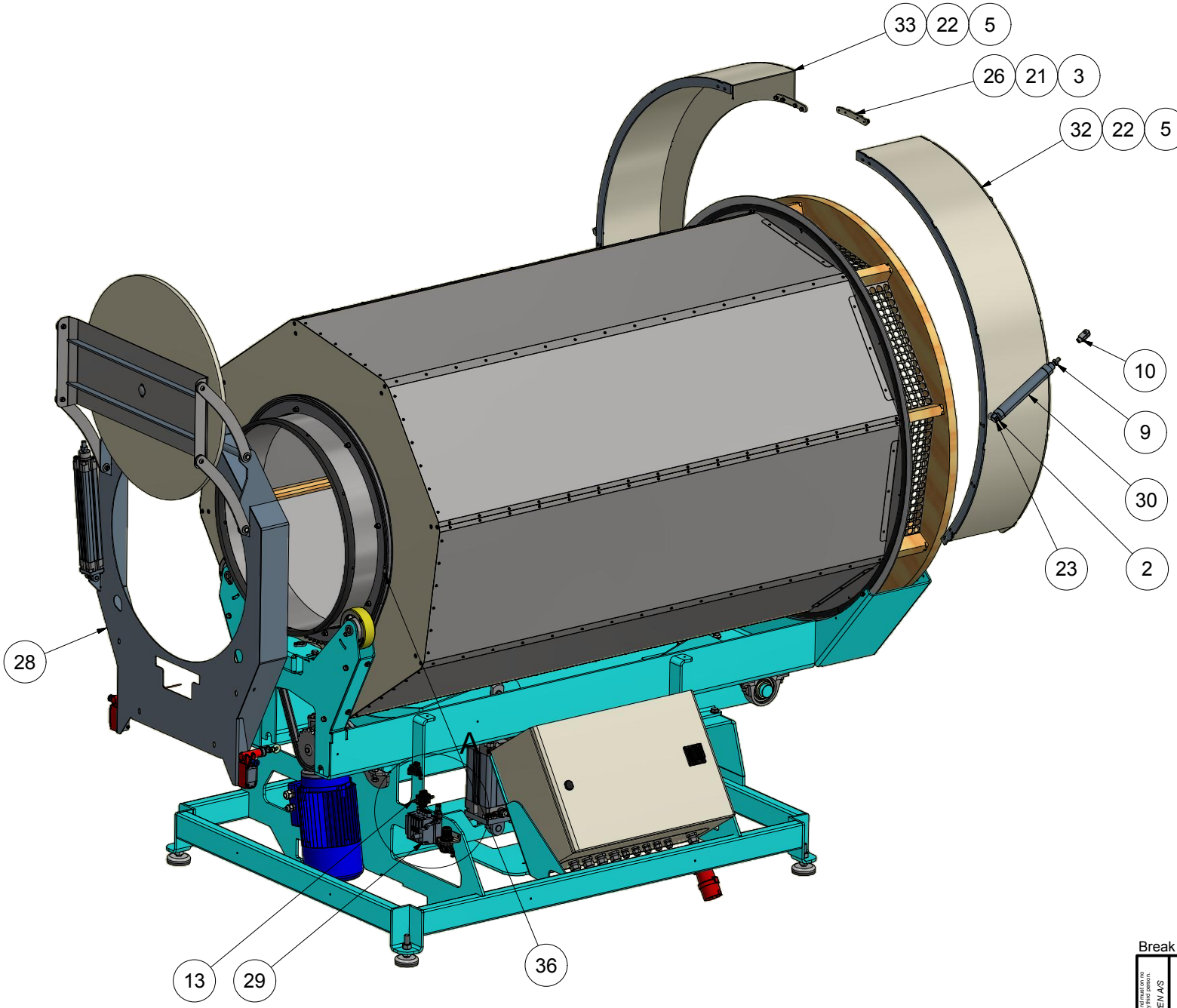
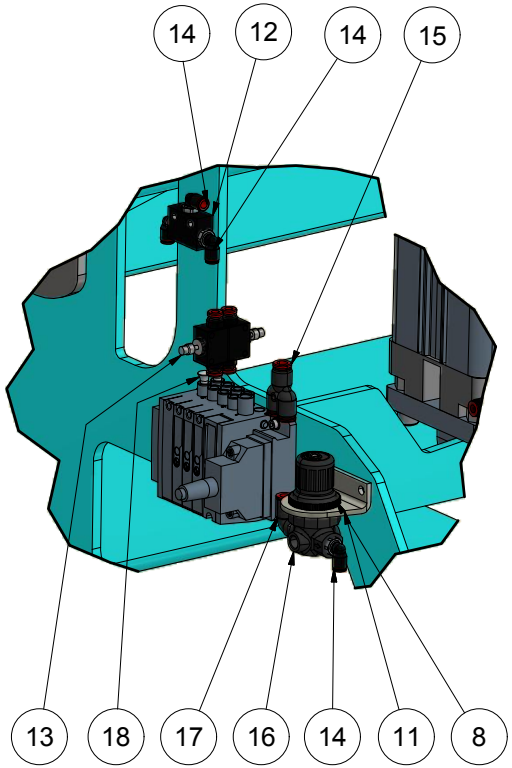
HEDENSTED GRUPPEN

Scale: 1 : 20	Not specificed tolerance according to: DS/ISO 2768-m	Sheet size: A3
	Surface properties: No	Sheet: 1 /2
Part No.: M102089	Material:	
Description 1: Skind drum Subassembly		
Description 2:		





Break all edges

Revision:	Approved	Date:	Revision Description
2	MBO	20-03-2017	2x216748, 8x11408010+82108000 added

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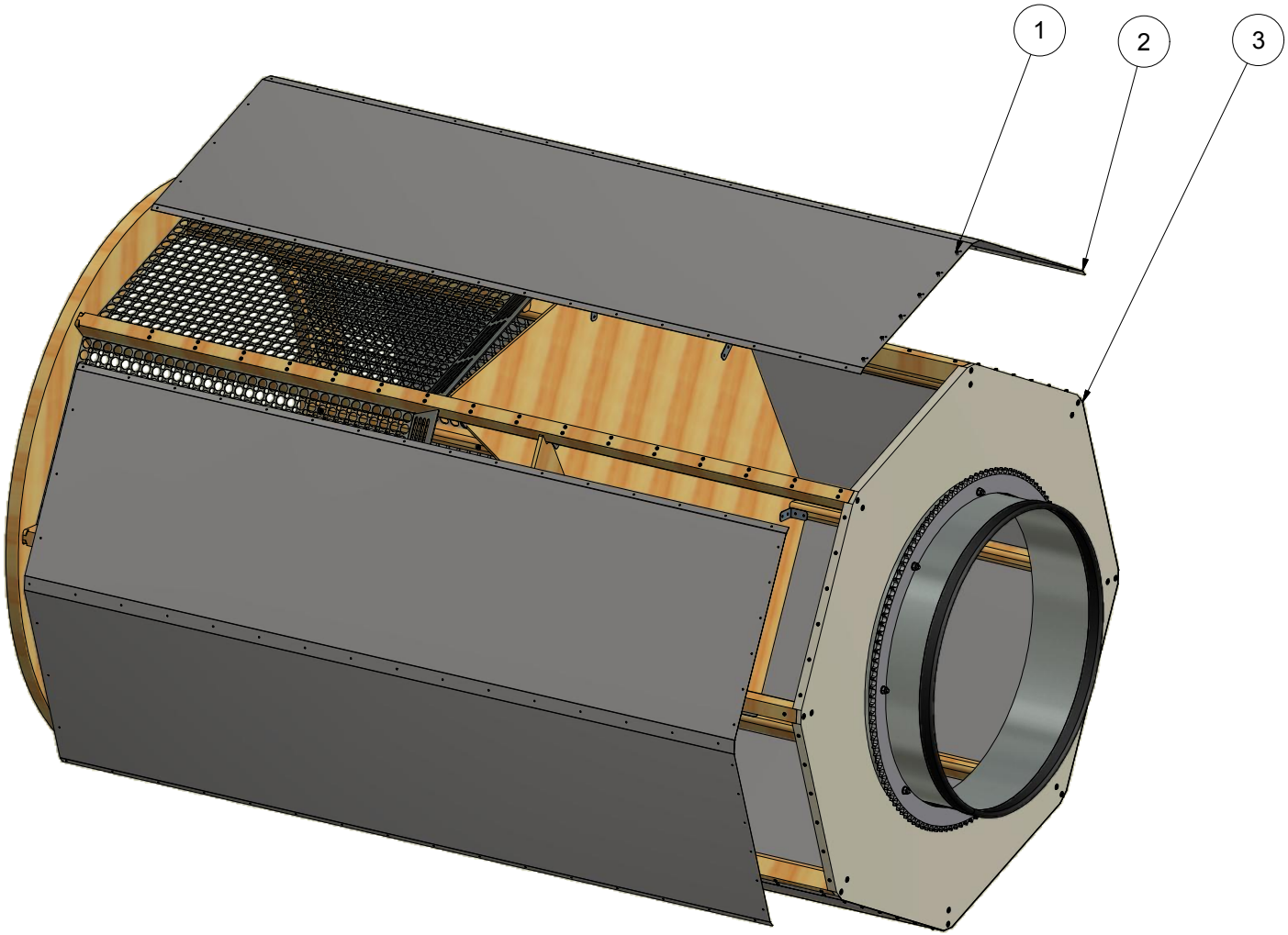
HEDENSTED GRUPPEN A/S

HEDENSTED GRUPPEN

Scale: 1 : 20	Not specificed tolerance according to: DS/ISO 2768-m	Sheet size: A3
Surface properties: No		Sheet: 2 /2
Part No.: M102089	Material:	
Description 1: Skind drum Subassembly		
Description 2:		

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	240	140851	Wood screw pan head 3,5 x 16
2	4	M102099	Drum cover
3	1	M102111	Drum cleaning assembly



Breake all edges

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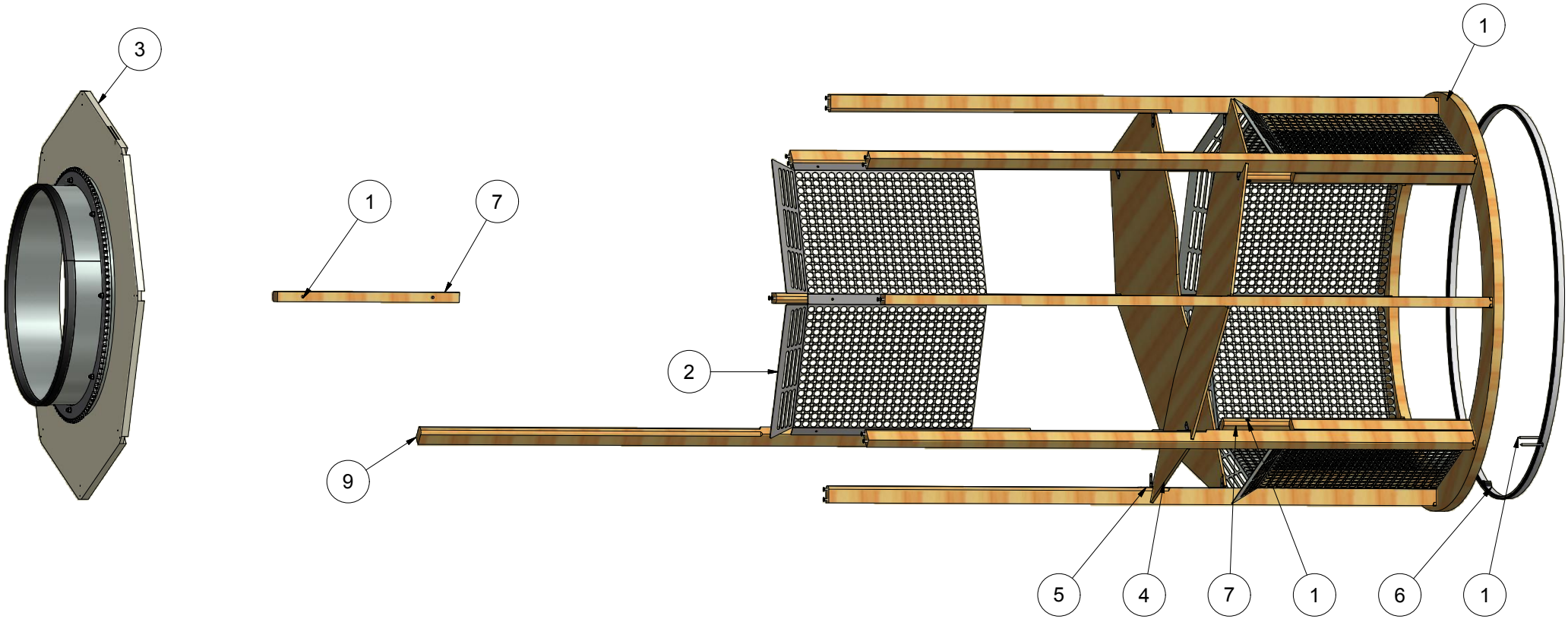
HEDENSTED GRUPPEN

Scale: 1 : 10	Not specificed tolerance according to: DS/ISO 2768-m	Sheet size: A3
	Surface properties: No	Sheet: 1 /2
Part No.: M102109	Material:	
Description 1: Drum assembly		
Description 2:		

Revision:	Approved	Date:	Revision Description
1	MRH	30-05-2016	Made

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	48	2706070	Wood screw countersunk head 6 x70
2	8	M101203	Cleaning plate
3	1	M101230	Intake end
4	2	M102090	Seperator plate
5	10	M102091	Seperator bracket
6	3,7 m	M102095	Brush for groove H25x8x8
7	8	M102110	Tumbler beam
8	1	M102115	Drum Outtake plate
9	8	M102116	Wood beam



Breake all edges

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HEDENSTED GRUPPEN A/S

HEDENSTED GRUPPEN

Scale: 1 : 12

Not specificed tolerance according to: DS/ISO 2768-m

Sheet size: A3

Surface properties: No

Sheet: 1 /2

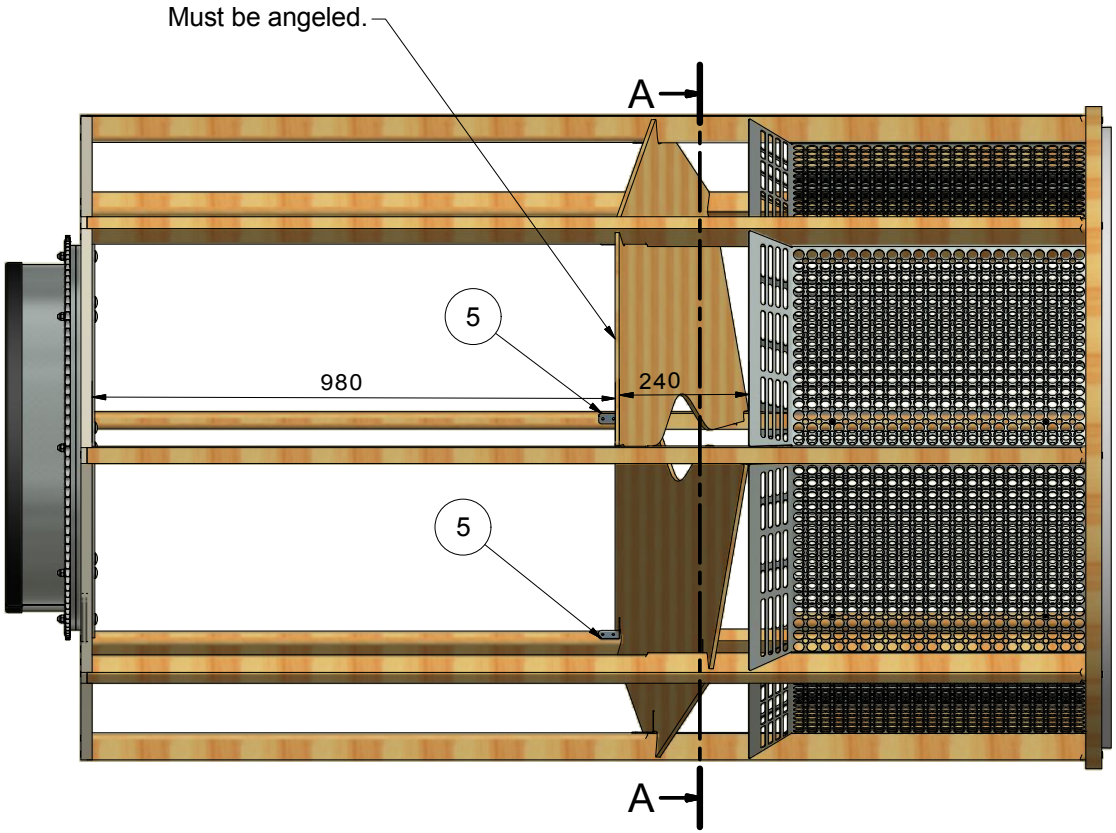
Part No.: M102111

Material:

Description 1: Drum cleaning assembly

Description 2:

Revision:	Approved	Date:	Revision Description
1	MRH	24-06-2016	8 screws removed



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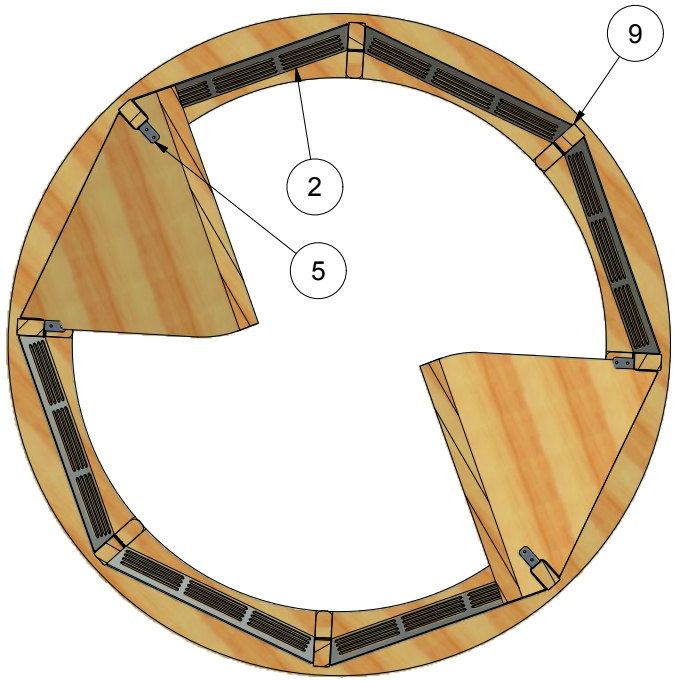

Breake all edges

Revision:	Approved	Date:	Revision Description
1	MRH	24-06-2016	8 screws removed

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HEDENSTED GRUPPEN A/S

HEDENSTED GRUPPEN

Scale: 1 : 12	Not specificed tolerance according to: DS/ISO 2768-m		Sheet size: A3
	Surface properties: No		Sheet: 2 /2
Part No.: M102111	Material:		
Description 1: Drum cleaning assembly			
Description 2:			

Customer: Hedensted Gruppen A/S

Project: SKINDRUM 2015

Hedensted Gruppen A/S
Vejlevej 15a
DK-8722 Hedensted
TLF: 75 89 12 44
FAX: 75 89 11 80

Index

Information **D**
21-08-2012 12:44:52

Declaration of incorporation **E**
03-09-2015 09:15:32

Main Circuit **1**
31-08-2016 11:44:20

230VAC & 24VDC Control Circuit **2**
13-06-2016 12:30:50

Emergency stop Circuit **3**
31-08-2016 12:29:16

Frequency converter Control circuit **4**
31-08-2016 12:29:16

PLC **5**
31-08-2016 12:29:16

PLC Input X0 - X7 **6**
07-06-2016 10:27:16

PLC Input X10 - X17 **7**
07-06-2016 10:20:52

PLC Input X20 - X27 **8**
07-06-2016 10:20:52

PLC Output Y0 - Y7 **9**
14-06-2016 08:31:24

PLC Output Y10 - Y17 **10**
13-06-2016 14:11:30

PLC list **11**
14-06-2016 08:31:42

Cable list **12**
13-06-2016 12:47:30

Part list **14**
14-06-2016 08:31:40

Information

WIRE IDENTIFICATION:

The wire is identified with the terminal number of the component.

WIRE COLOUR:

MAIN CIRCUIT:	Phase	Black
	Neutral	Light blue
DC CONTROL CIRCUIT: 24VDC		Dark blue
	0VDC	White

THE FOLLOWING COLOUR ID IS TAKEN FROM DS/EN 60757

BK BLACK
BN BROWN
RD RD
OG ORANGE
YE YELLOW
GN GREEN
BU BLUE
VT VIOLET
GY GREY
WH WHITE
PK PINK

ALL SYMBOLS USED IS TAKEN FROM DS/EN 166

DECLARATION OF INCORPORATION

Directive 2006/42/EF, Annex II, B

Manufacturer

Firm: VS AUTOMATIC A/S

Address: Ormhøjgårdvej 15
DK-8700 Horsens

Phone: +45 75 64 18 99

Fax: +45 75 64 18 09

Email: info@vs-automatic.dk

Herewith declares that

Component: Controlpanel

Type: Skindrum 2015-02 Year of manufator: 2015

is intended to be incorporated into machinery or to be assembled with other machinery to constitude machinery covered by Directive 2006/42/EC

does therefor not in every respect comply with the provisions of this directive

does comply with the provisions of the following other EC directives

EC directives

EC machine directive 89/392/EEC, as per 91/386/EEC, 93/68/EEC, 93/44/EEC

EC low-voltage directives 73/23/EEC, as per 93/68/EEC, 93/465/EEC

EC EMC directive 89/336/EEC as per 92/31/EEC, 93/68/EEC, 93/465/EEC

Harmonized standards

EN60204-1 Safety of Machinery Electrical Equipment of Machines

EN60439-1 Low-voltage switchgear and controlgear assemblies part 1: Type-tested and partially type-tested assemblies

And furthermore declares that it is not allowed to put the machinery into service until the machinery into which it is to be incorporated or of which it si to be a component has been found and declarede to be in conformity with the provisions of Directive 98/37/EC and with national implementation legislation i.e. as a whole, including the machinery referred to in this declaration

Machine: SKINDRUM 2015

Machine No.:

Type: Year of manufactor: 2015

Manufactor: Hedensted Gruppen A/S

Indentification of signature:

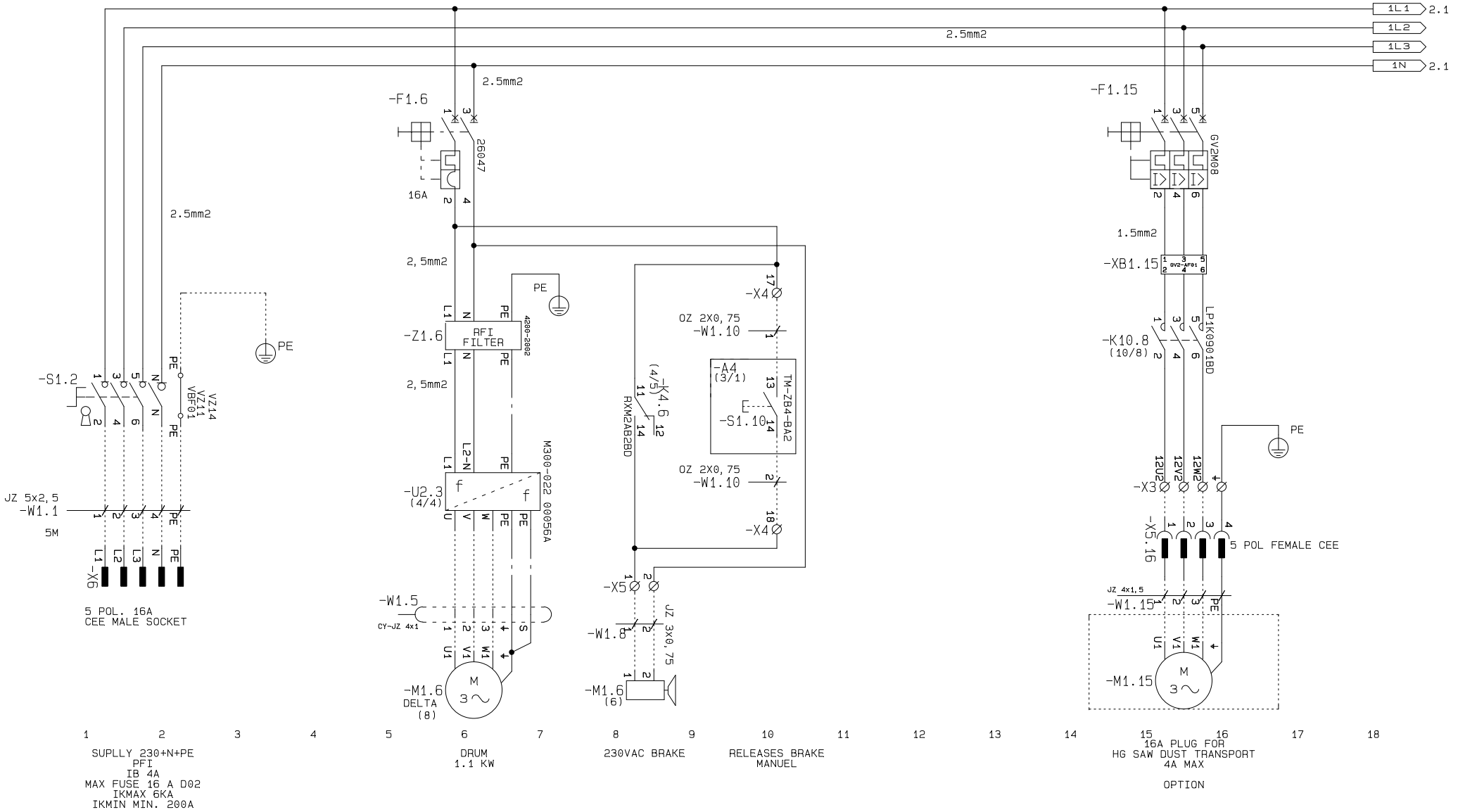
Firm: VS AUTOMATIC A/S

Address: Ormhøjgårdvej 15
DK-8700 Horsens

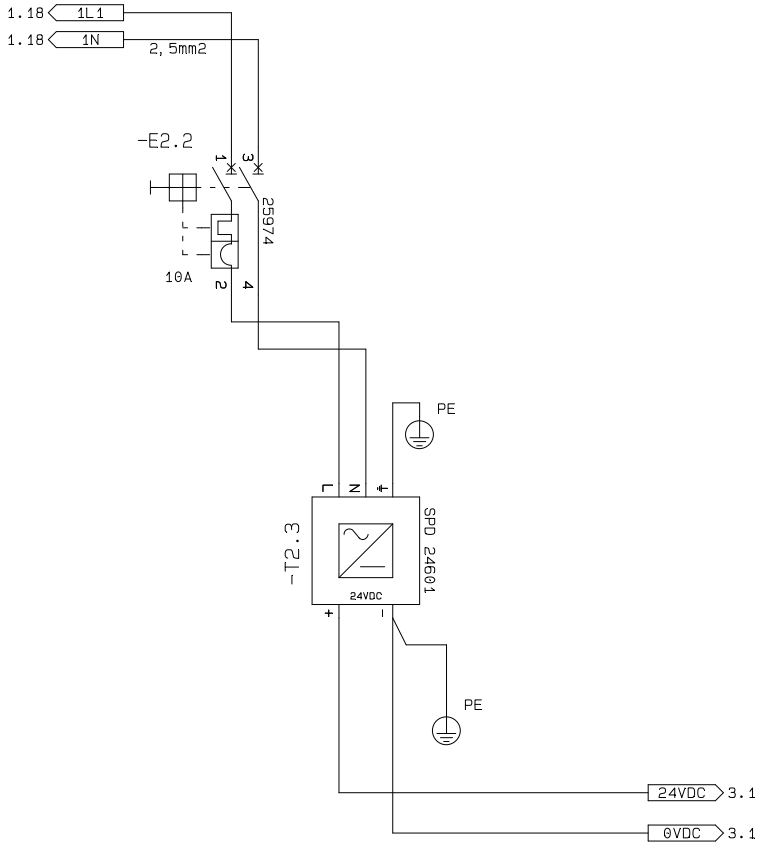
Date: Signature

31-08-2016

Torben Steffensen

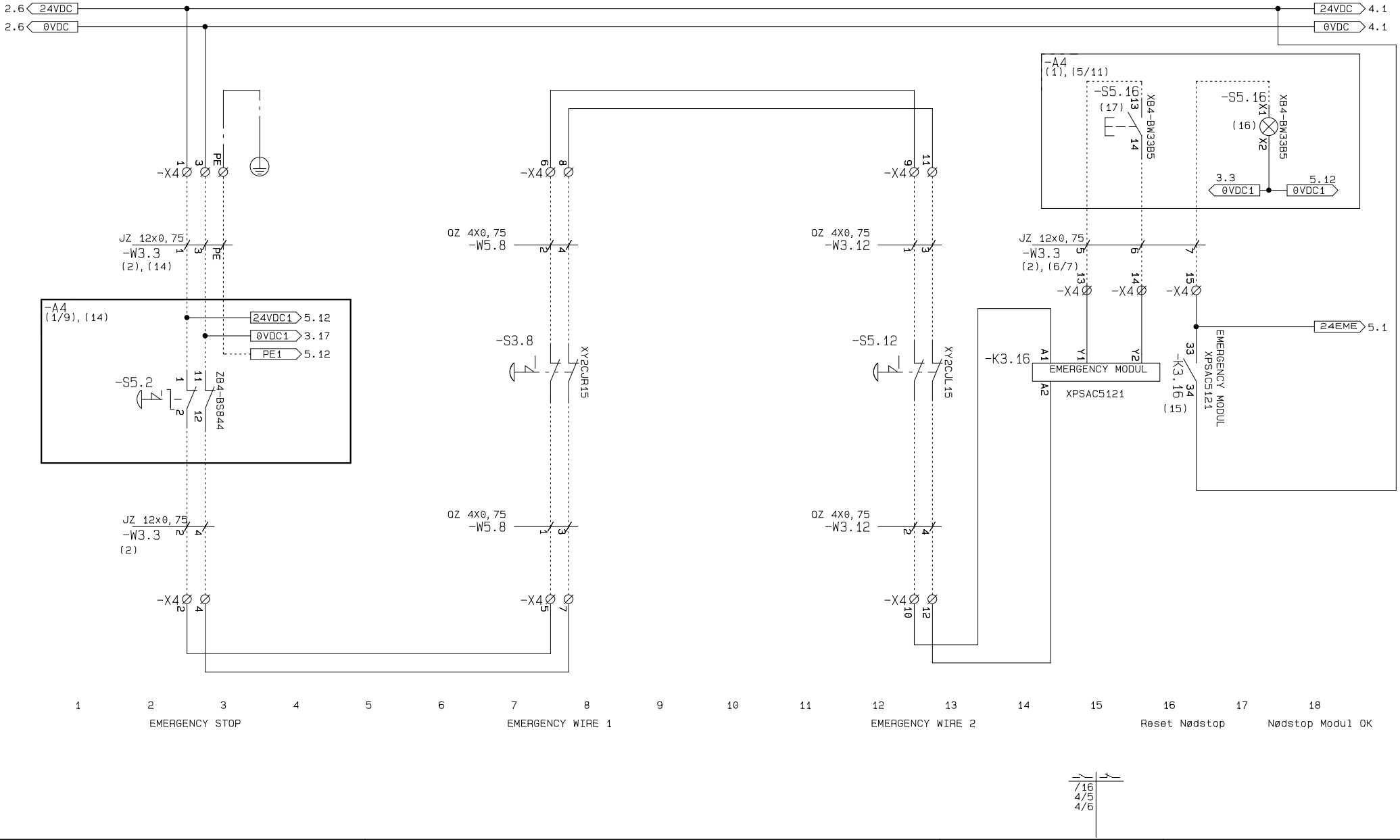


VS AUTOMATIC Tlf. 75 64 18 99 - vs-automatic.dk En del af TS-GRUPPEN - Danmarks stærkeste El & Energi Installatør	Customer: Hedensted Gruppen A/S	Designer: HBL	Case no:Skindrum 2015-02
	Project: SKINDRUM 2015	Last prt: 31-08-2016	Page ref.:+A0
	Pagetitle: Main Circuit	Last changed: 31-08-2016	Page: 1 of 14

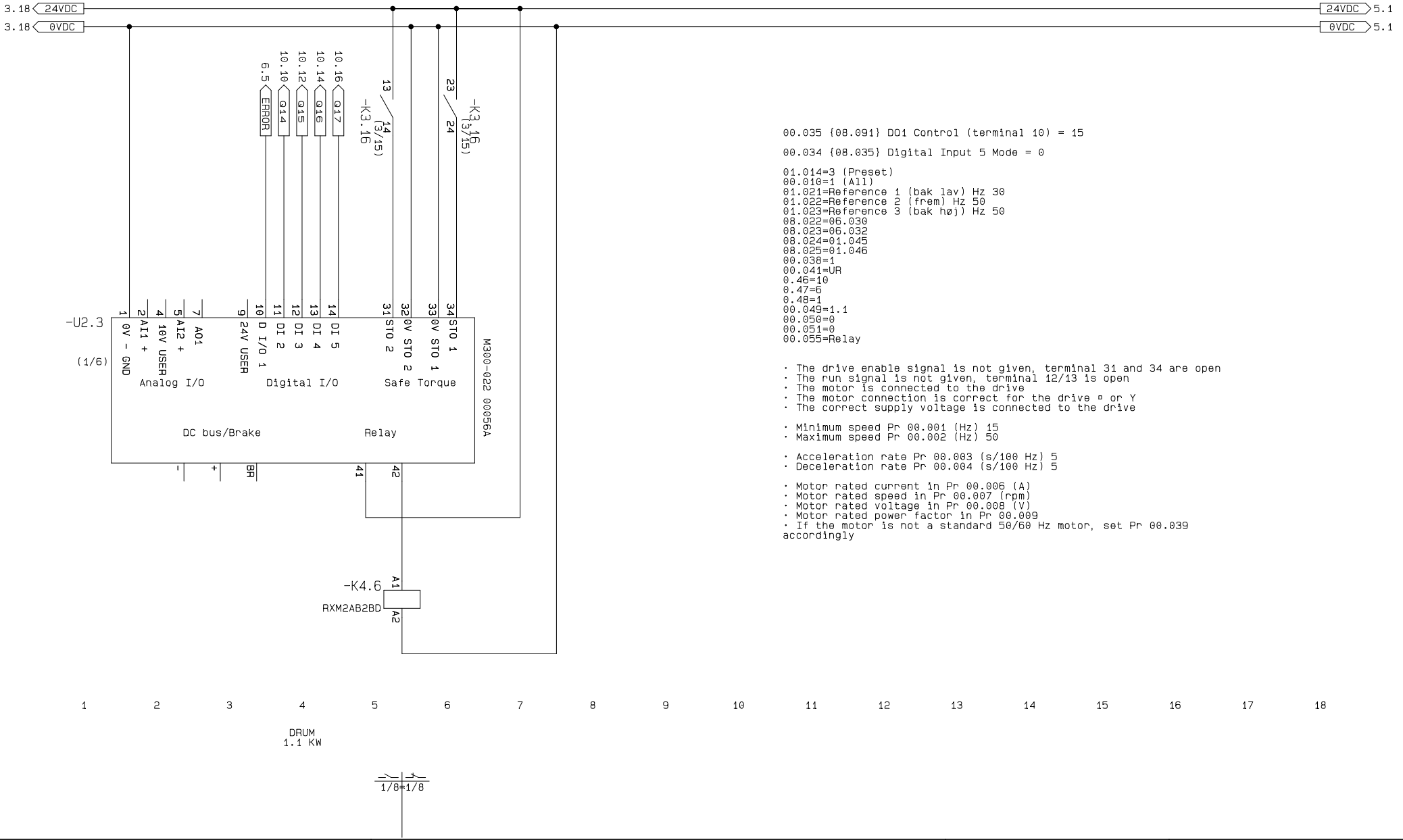


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

VS AUTOMATIC Tlf. 75 64 18 99 - vs-automatic.dk En del af TS-GRUPPEN - Danmarks stærkeste El & Energi Installatør	Customer: Hedensted Gruppen A/S	Designer: HBL	Case no:Skindrum 2015-02
	Project: SKINDRUM 2015	Last prt: 31-08-2016	Page ref.:+A0
	Pagetitle: 230VAC & 24VDC Control Circuit	Last changed: 13-06-2016	Page: 2 of 14



VS AUTOMATIC Tlf. 75 64 18 99 - vs-automatic.dk En del af TS-GRUPPEN - Danmarks stærkeste El & Energi Installatør	Customer: Hedensted Gruppen A/S	Designer: HBL	Case no:Skindrum 2015-02
	Project: SKINDRUM 2015	Last prt: 31-08-2016	Page ref.:+A0
	Pagetitle: Emergency stop Circuit	Last changed: 31-08-2016	Page: 3 of 14



00.035 {08.091} DO1 Control (terminal 10) = 15

00.034 {08.035} Digital Input 5 Mode = 0

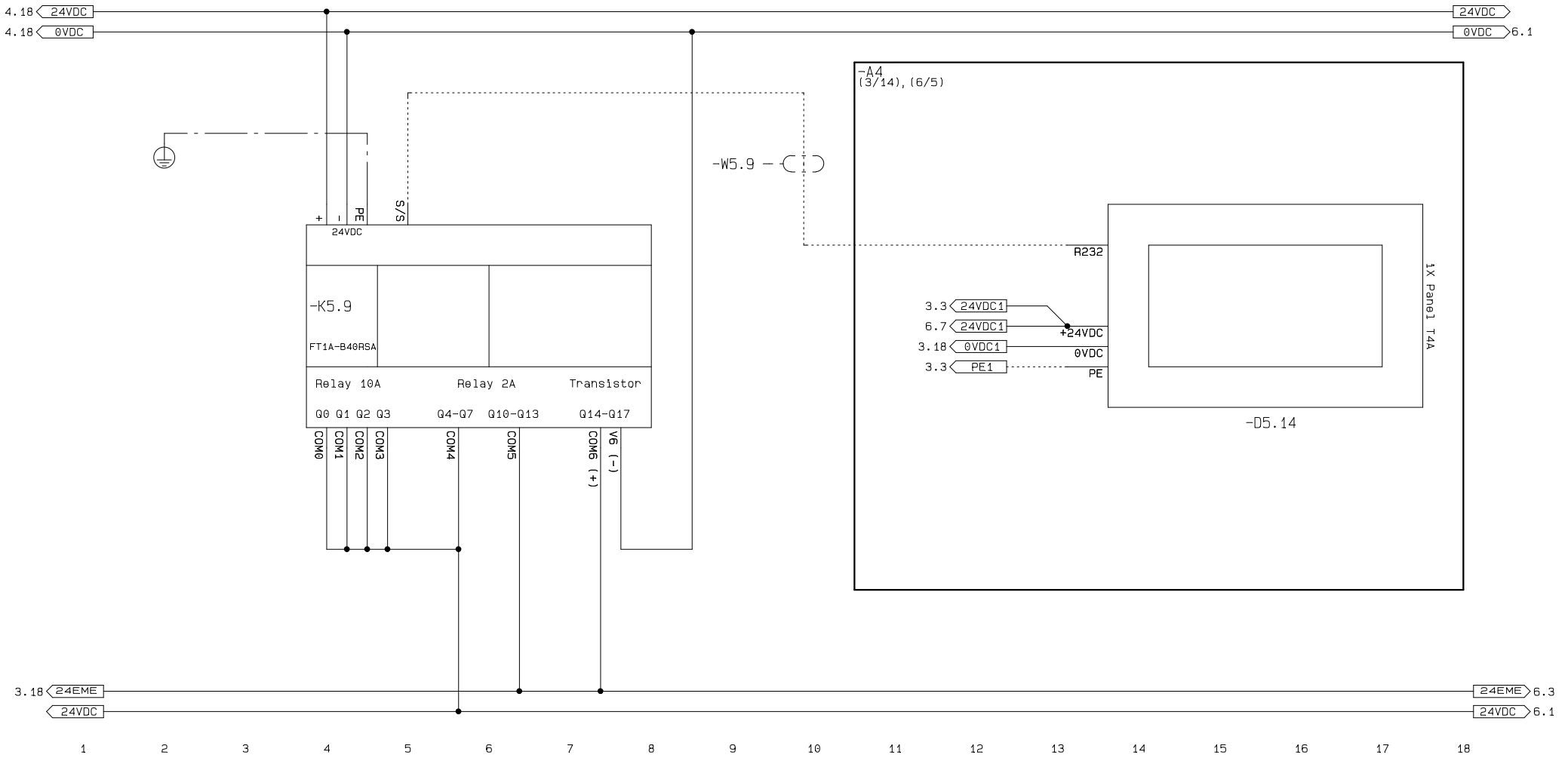
01.014=3 (Preset)
00.010=1 (All)
01.021=Reference 1 (bak lav) Hz 30
01.022=Reference 2 (frem) Hz 50
01.023=Reference 3 (bak høj) Hz 50
08.022=06.030
08.023=06.032
08.024=01.045
08.025=01.046
00.038=1
00.041=UR
0.46=10
0.47=6
0.48=1
00.049=1.1
00.050=0
00.051=0
00.055=Relay

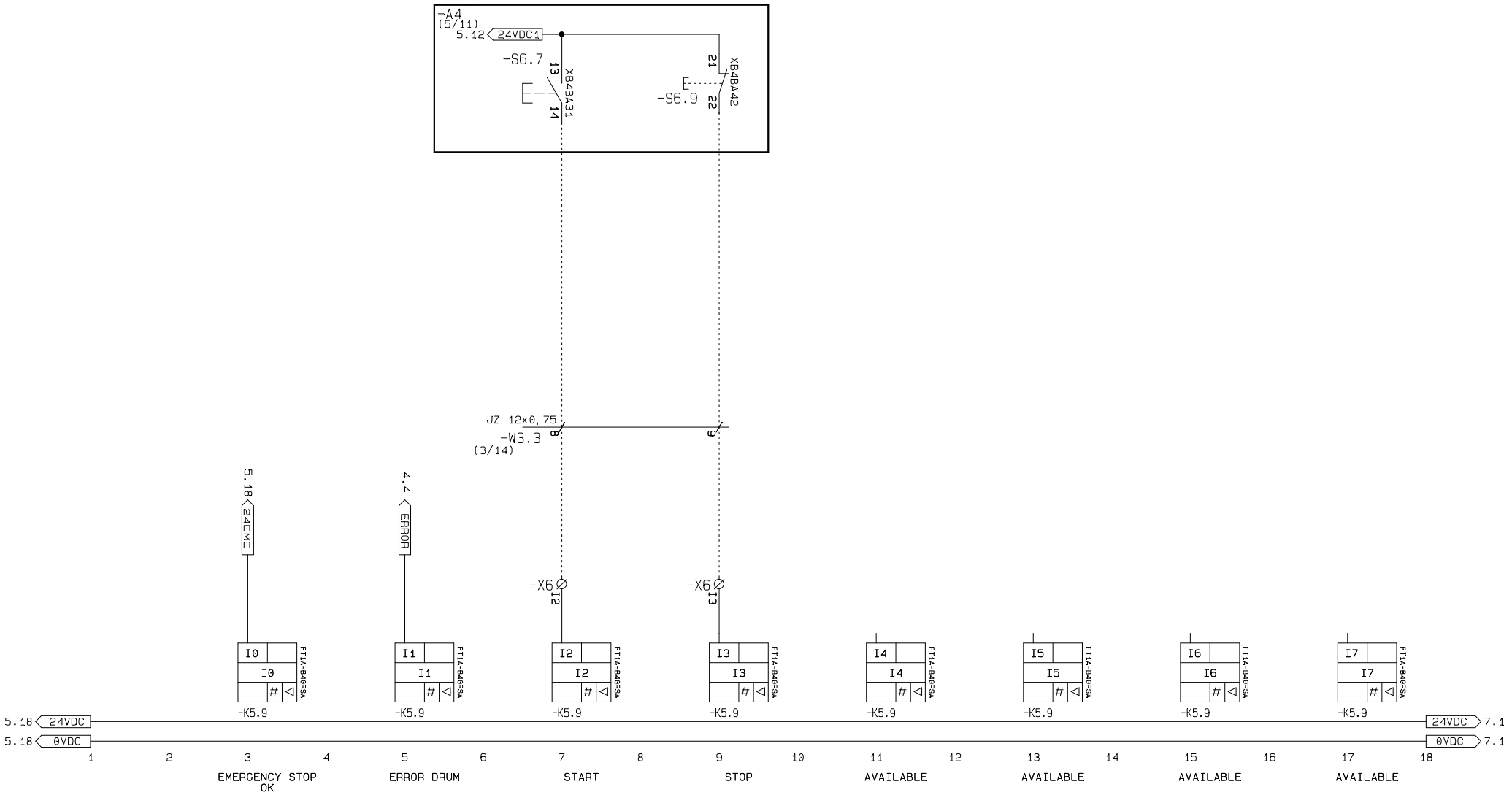
· The drive enable signal is not given, terminal 31 and 34 are open
· The run signal is not given, terminal 12/13 is open
· The motor is connected to the drive
· The motor connection is correct for the drive ▫ or Y
· The correct supply voltage is connected to the drive

· Minimum speed Pr 00.001 (Hz) 15
· Maximum speed Pr 00.002 (Hz) 50

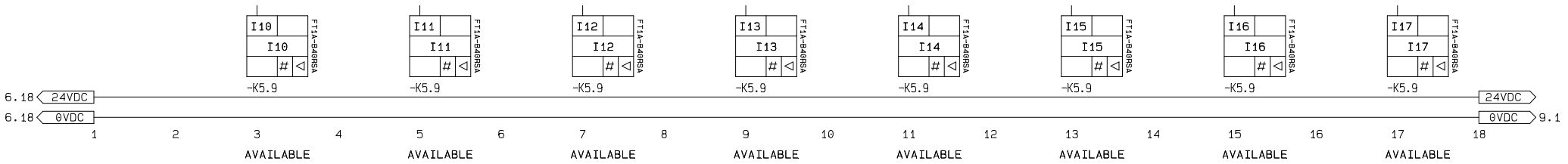
· Acceleration rate Pr 00.003 (s/100 Hz) 5
· Deceleration rate Pr 00.004 (s/100 Hz) 5

· Motor rated current in Pr 00.006 (A)
· Motor rated speed in Pr 00.007 (rpm)
· Motor rated voltage in Pr 00.008 (V)
· Motor rated power factor in Pr 00.009
· If the motor is not a standard 50/60 Hz motor, set Pr 00.039 accordingly


4.18 24VDC
4.18 0VDC
24VDC
0VDC 6.1
-A4
(3/14), (6/5)
-W5.9
+
-
PE
S/S
24VDC
-K5.9
FT1A-B40RSA
Relay 10A
Relay 2A
Transistor
Q0 Q1 Q2 Q3
Q4-Q7
Q10-Q13
Q14-Q17
COM0
COM1
COM2
COM3
COM4
COM5
COM6 (+)
V6 (-)
R232
3.3 24VDC1
6.7 24VDC1
3.18 0VDC1
3.3 PE1
+24VDC
0VDC
PE
1X Panel T4A
-D5.14
3.18 24EME
24VDC
24EME 6.3
24VDC 6.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

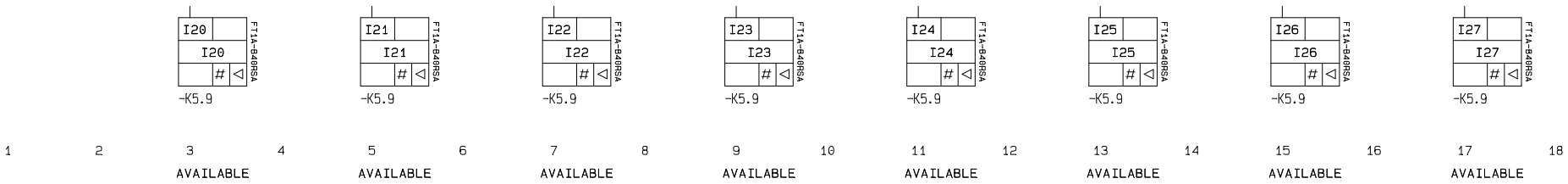


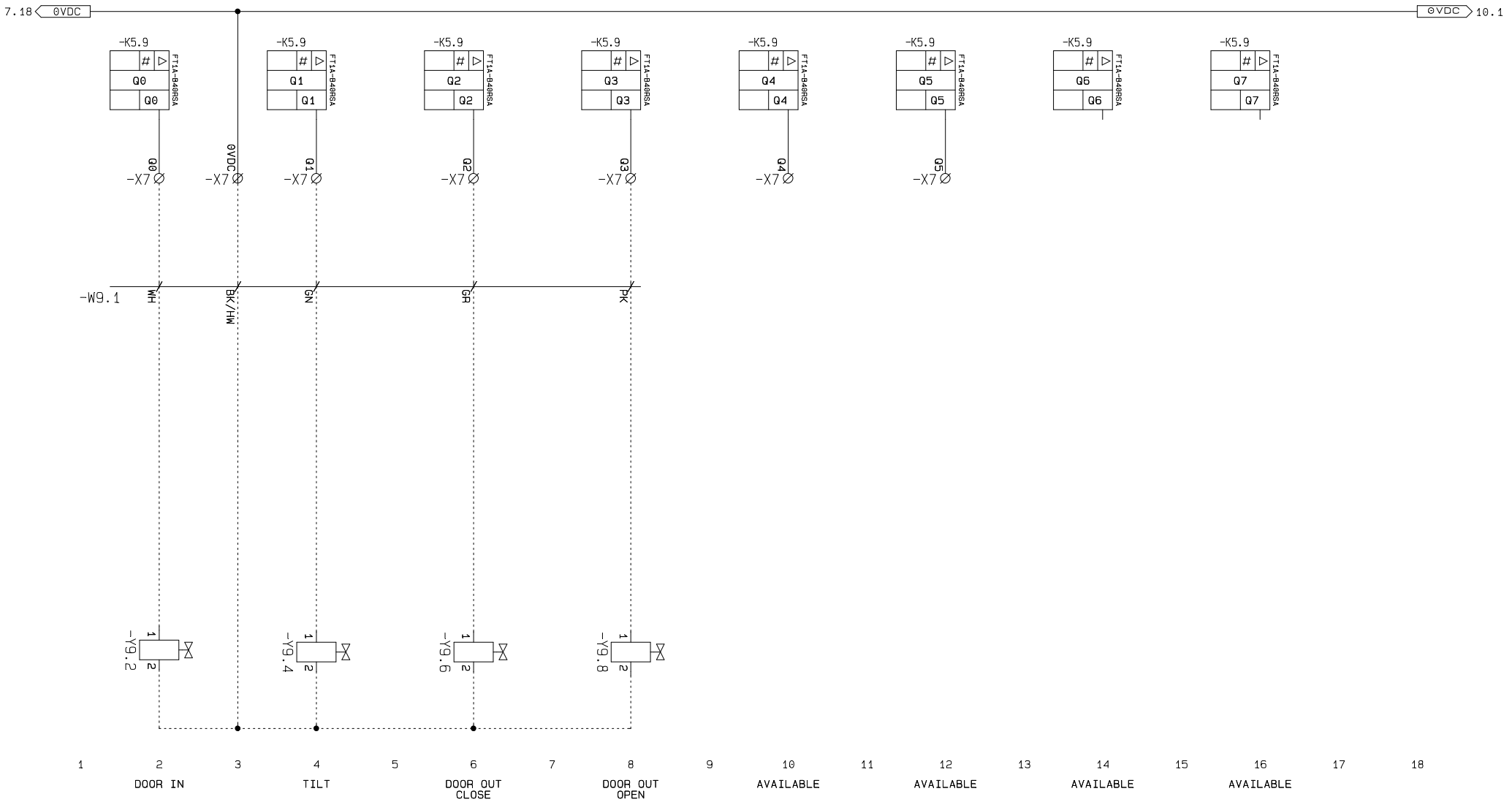
VS AUTOMATIC Tlf. 75 64 18 99 - vs-automatic.dk En del af TS-GRUPPEN - Danmarks stærkeste El & Energi Installatør	Customer: Hedensted Gruppen A/S	Designer: HBL	Case no:Skindrum 2015-02
	Project: SKINDRUM 2015	Last prt: 31-08-2016	Page ref.:+A0
	Pagetitle: PLC Input X0 - X7	Last changed: 07-06-2016	Page: 6 of 14

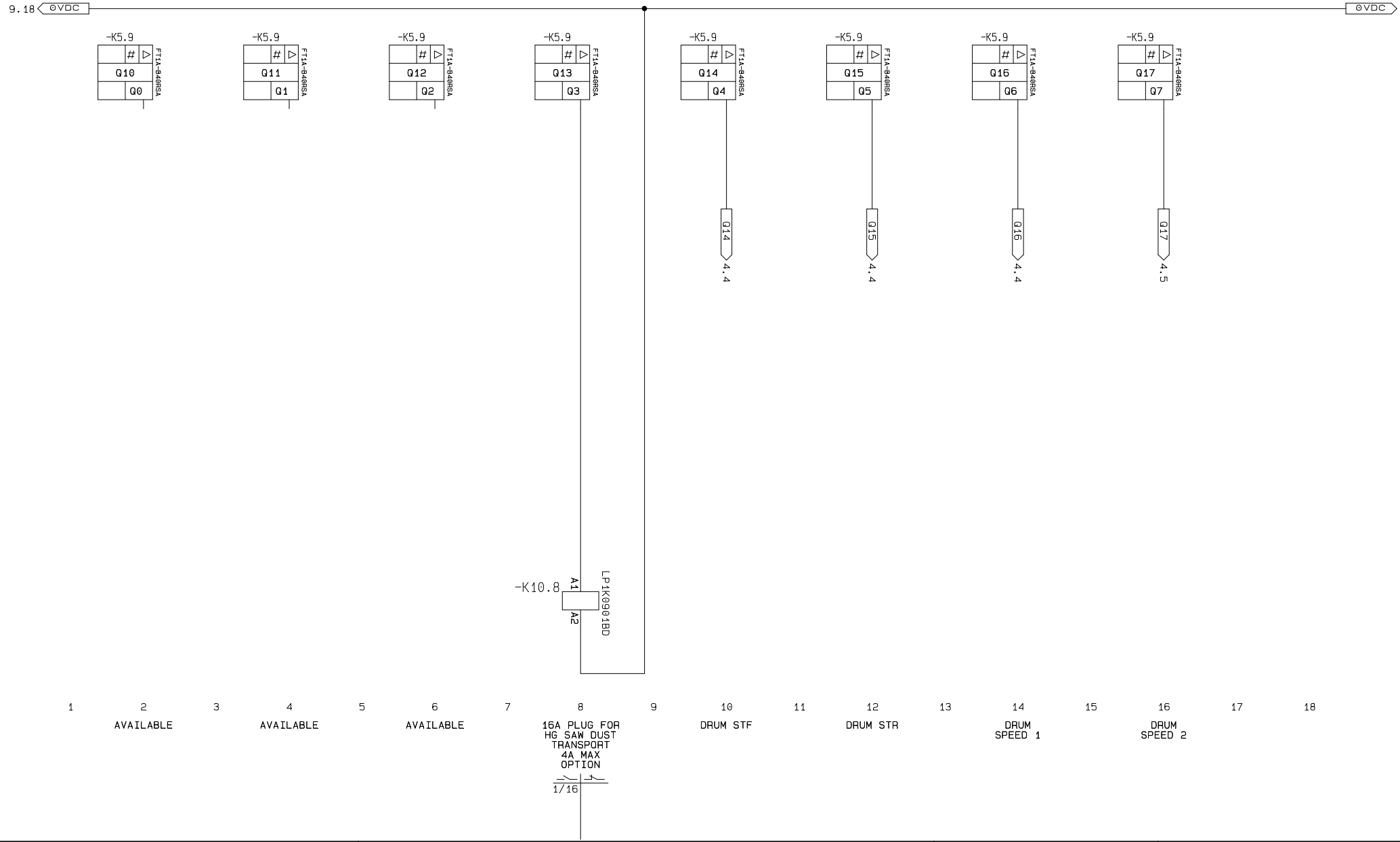


VS AUTOMATIC
Tlf. 75 64 18 99 - vs-automatic.dk
En del af TS-GRUPPEN - Danmarks stærkeste El & Energi Installatør

Customer: Hedensted Gruppen A/S	Designer: HBL	Case no:Skindrum 2015-02
Project: SKINDRUM 2015	Last prt: 31-08-2016	Page ref.:+A0
Pagetitle: PLC Input X10 - X17	Last changed: 07-06-2016	Page: 7 of 14


I20
I20
FT1A-B40RSA
-K5.9
I21
I21
FT1A-B40RSA
-K5.9
I22
I22
FT1A-B40RSA
-K5.9
I23
I23
FT1A-B40RSA
-K5.9
I24
I24
FT1A-B40RSA
-K5.9
I25
I25
FT1A-B40RSA
-K5.9
I26
I26
FT1A-B40RSA
-K5.9
I27
I27
FT1A-B40RSA
-K5.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
AVAILABLE
AVAILABLE
AVAILABLE
AVAILABLE
AVAILABLE
AVAILABLE
AVAILABLE
AVAILABLE


7.18
0VDC
0VDC
10.1
-K5.9
FT1A-B40RSA
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
-X7
-W9.1
WH
Bk/HW
GN
GR
PK
-Y9.2
-Y9.4
-Y9.6
-Y9.8
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
DOOR IN
TILT
DOOR OUT CLOSE
DOOR OUT OPEN
AVAILABLE
AVAILABLE
AVAILABLE
AVAILABLE


9.18
0VDC
0VDC
-K5.9
FT1A-B46RSA
Q10
Q0
Q11
Q1
Q12
Q2
Q13
Q3
Q14
Q4
Q15
Q5
Q16
Q6
Q17
Q7
Q14 4.4
Q15 4.4
Q16 4.4
Q17 4.5
-K10.8
A1
A2
LP1K0901BD
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
AVAILABLE
AVAILABLE
AVAILABLE
16A PLUG FOR HG SAW DUST TRANSPORT 4A MAX OPTION
DRUM STF
DRUM STR
DRUM SPEED 1
DRUM SPEED 2
1/16