

Installation Manual



Strategos Superior

Lifting platform



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Kategori Benämning








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Lyftplattformen är avsedd för persontransporter och att lyfta max 400kg eller 2 personer. Lyftplattformen får monteras i både offentlig och privat miljö.

Förebyggande av olyckor

Det är ägarens skyldighet att förebygga olyckor. Sätt aldrig plattformen i drift, om det är fara för att en person eller föremål befinner sig i lyftplattformens körbana. Försök inte att öppna dörrarna när lyftplattformen är i rörelse.

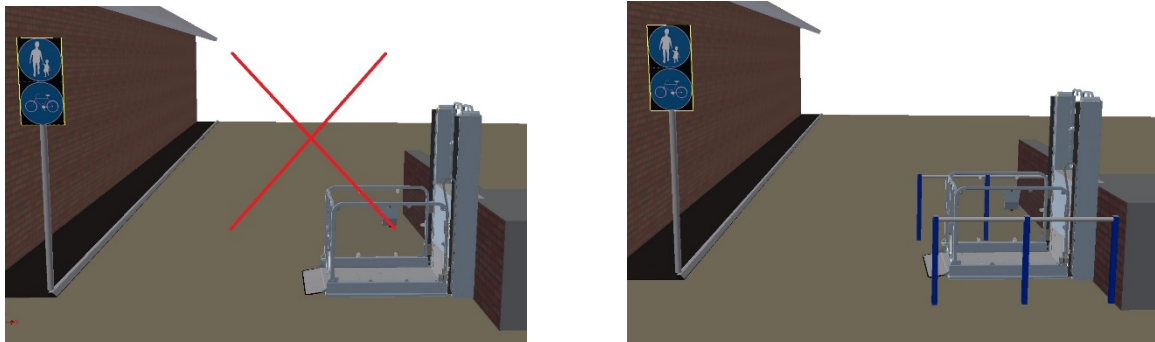
Risakanalys vid projektering och montage

Det är nödvändigt vid varje installation att tillse att liften placeras på ett sådant vis att inga personskador kan uppstå då personer passerar i närheten eller intill liften. Lämpliga åtgärder måste vidtas för att undvika personskador.

Uppställningsplats

Uppställningsplatsen skall vara dränerad och området under lyftplattformen och dörrarna skall vara plant. Underlaget kan vara golv, betong, betongplattor etc. icke tjälskjutande material. Vid användning av montagestativ skall gjuten betongplatta finnas för fast förankring.

Området omkring plattformen skall vara tillfredställande belyst (utförs av ägaren).



Avstånd till vägg eller liknade

Horisontalavstånd från stativets sidor till fast byggnadsdel skall vara 355mm. Om väggen är slät över hela lyftbanan skall avståndet vara minst 100mm.

Avstånd till tak

Den vertikala frihöjden från korgens golv till fast byggnadsdel skall vara minst 2,1m (mätt vid övre stannplan)

EI – Anslutning

Läsbar arbetsbrytare skall installeras till hissen.

Fasföljd:

L1= Brun kabel, N = Blå kabel, PE= Gul-Grön kabel

Anslutningskabeln skall vara 3 x 2,5 m² och skall vara säkrad med 16 A.

Lyftplattformen levereras som standard till 1 x 230 V AC 50 Hz.

Om hissen levereras med sladdställ skall godkänt Eluttag användas (16A) och uttaget skall vara placerad i hissens närhet.

Beskrivning av maskinen

Strategos Superior är en stationär lyftplattform som är tillverkad i galvaniserad och eller pulverlackerad konstruktion. Styrningen av lyft konstruktionen sker via manöverbox i plattformskorgen eller via två yttre betjäningspaneler. Lyftplattformen drivs av en frekvensstyrd elmotor som överför kraften via remdrift till lyftskruvar och lyftkonsoler.

Lyftstativets konstruktion

Stativet är svetsad samman till en lådprofil. Lyftskruvarna är ankrade i lagerbockar i botten av motorrummet. I toppen är lyftskruvarna försedda med styrklotsar som övre lagring. Lyftstativet finns i 9 olika lyfthöjder, från 800/1000/1200/1500/1800/2100/2500/2800/3000mm. Samtliga lyfthöjder går justera neråt ca 400mm utom 800 som inte går sänka lägre än till 500mm.

Lyftaggregat

Lyftaggregatet styrs av fyra stycken lagrade plasthjul kombinerat med gummidämpare. Aggregatet höjs eller sänks synkront med hjälp av lyftskruvar med bärmutter via elmotor och remdrift. Under varje bärmutter är det monterat en säkerhetsmutter. Avståndet mellan bär- och säkerhetsmuttrarna är vid leverans ca 20mm. Det exakta avståndet är stämplat i bärmutter och kan avläsas från motorrummet. Lyftaggregatet är sammanskruvat med 12st infästningsbultar till plattformskorgen

Lyftaggregatets korg

Korgens sidor och dörrar är täckta med hållfast polykarbonat som standard (alternativ finns) Korgen är försedd med en betjäningspanel med tryckknappar för upp och ned färd samt nödstops knapp. Vidare finns signallampa och ljussummer för överlastskyddet. Korgen är försedd med på och av körningsramp.

Nödsänkning

I händelse av strömavbrott kan lyftplattformens korg flyttas upp eller ned manuellt. Alternativt kan UPS backup erhållas som tillbehör. Stäng av strömmen. Ta bort toppkåpan, ta bort plast pluggen på toppen av stativets pelare. Montera den medlevererade handveven och var uppmärksam på att den sätts fast ordentligt. Veva till önskad höjd, dock aldrig högre än översta stannplan. Tag bort handveven, montera plast pluggen och kåpan, därefter koppla till strömmen.

Vintertid

Korgen skall placeras några cm över mark för att undvika snö samling. Lämnas korgen så att den kommer i kontakt med underlaget finns det en möjlighet att den kan frysa fast. Se till att det inte kommer snö på lyftplattformen. Skärmtak över lyftplattformen kan användas vid behov.

Onormal drift

Skulle det inträffa fel indikationer, som kan ha säkerhetsmässig betydelse för användandet av lyftplattformen, ska denna omgående tas ur drift och huvudströmmen kopplas ur. Tillkalla en auktoriserad servicemontör.



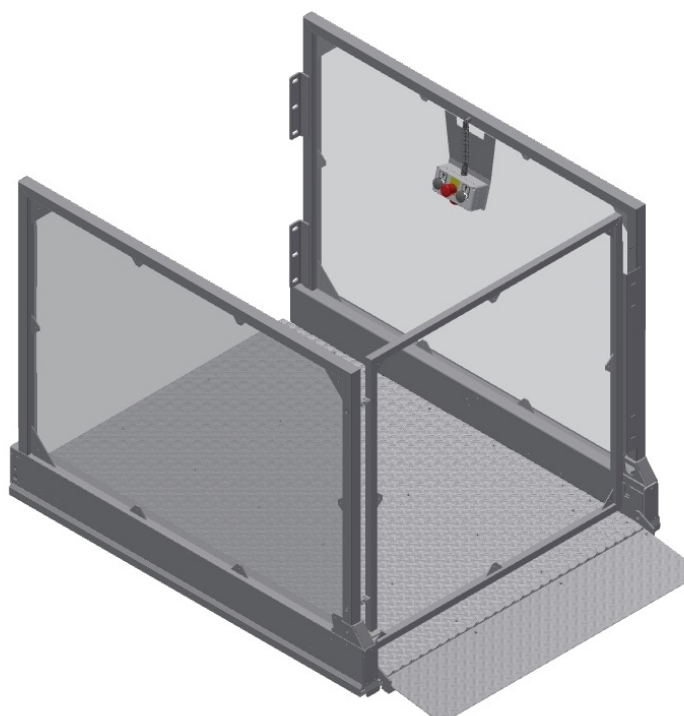
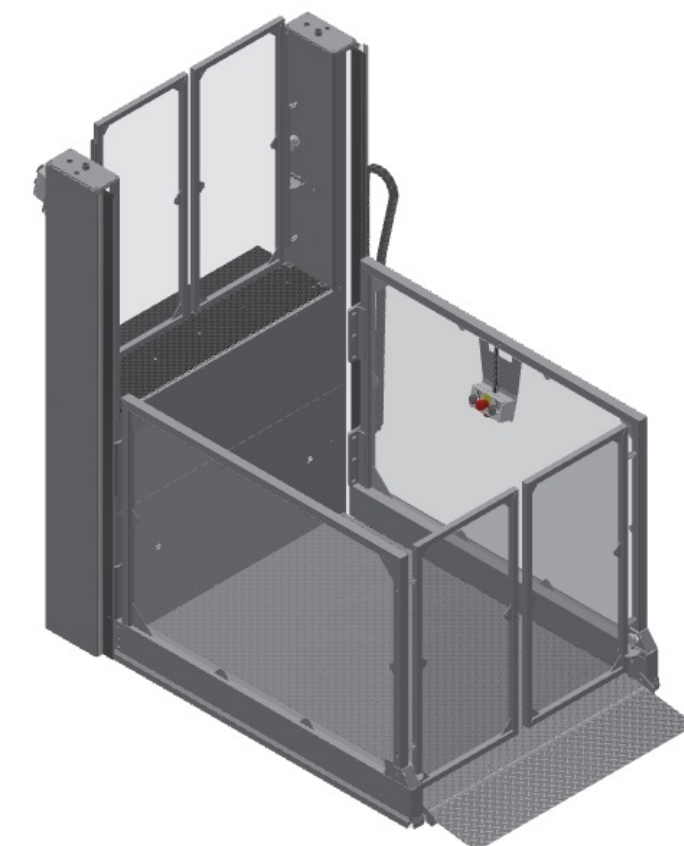
Teknisk data Strategos Superior

Lyftplattform typ B för lyfthöjder 800,1000,1200,1500,1800,2100,2500,2800,3000mm

Max-last	400 kg
Hiss hastighet	0,08 m/s
Lyfthöjd	0,5 – 3,0 m
Total bredd	1300 mm
Totalt djup	1785 mm + ramp 250 mm=2035mm
Korgens utvändiga höjd	1160 mm
Korgens invändiga höjd	1115
Korgens invändiga bredd	1100
Korgens invändiga längd	1435 mm
Huvudspänning, standard	1 x 230 V, 50 Hz 16 A
El-motor	3,0 kW, Rpm 1430v/min
Märkström	230 V. 11,0 A
Manöverspänning	24 V Dc
Ljudnivå	ca 53 db (A)

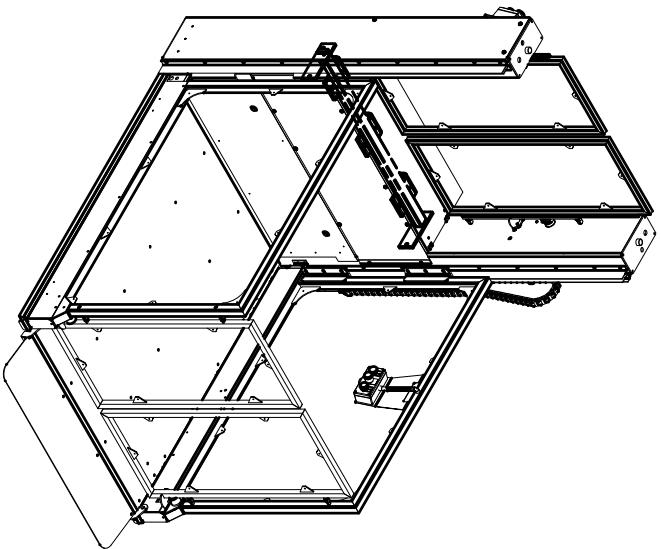
Produktgaranti 3År

Hisskorg standard och dörrautomatik



Sidokorg med dörrautomatik som standard





Clearances

"A"

Horizontal distance to adjacent surface
100mm if smooth, 355mm if irregular

Anchors

Horizontal & Vertical 2 minimum (see installation information) for further details of substrate requirements and type

Platform floor finish

Standard - Aluminium chequer plate

Electrical supply (Main switch)

1ph L, N, PE, 3 x 2,5mm² 16A

Technical Data

Rated capacity: 400kg / 2 person

Speed: 0,08m / s

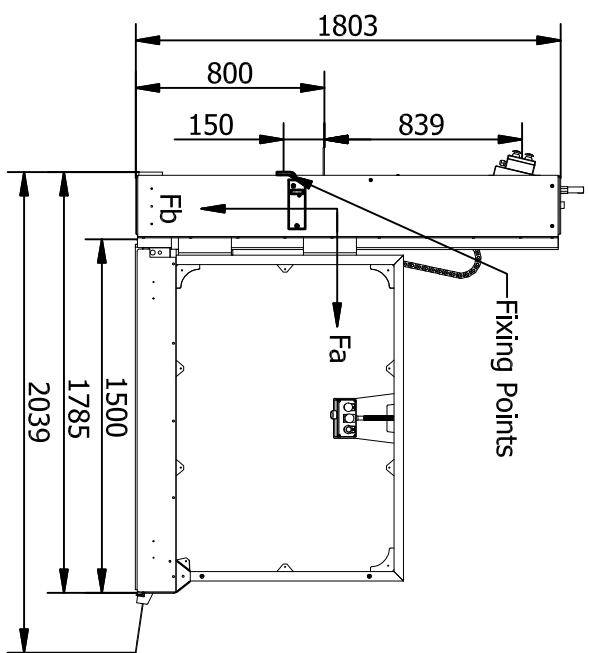
Drive: 3kW Electrical motor / Belt drive

Electrical Connection: Single phase, 3 x 2,5mm²

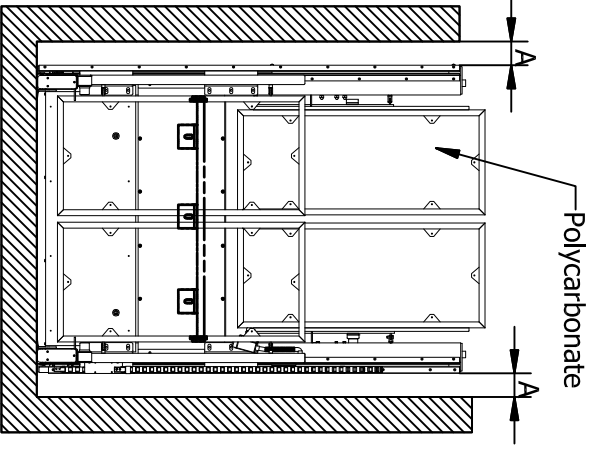
Control voltage: 24V/olts

Soft start / Stop by frequency inverter

Drive system: Screw / Nut, double

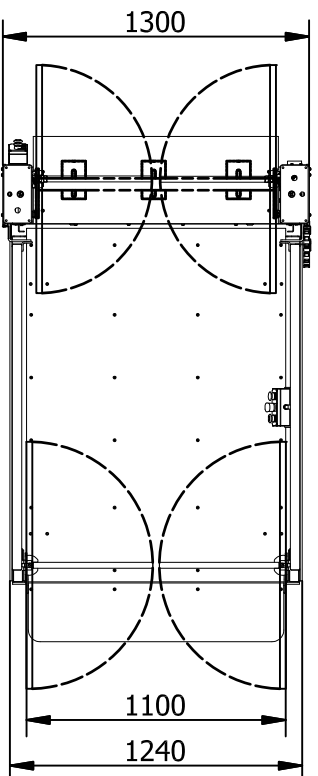


(1:22)



HORIZONTAL FORCES	
Fixing height mm	Total Anchor Force Fa, kN
400	25,8
600	17,2
800	12,9
1000	10,3
1200	8,6
1400	7,4
1600	6,5
1800	5,7
2000	5,2
2200	4,7
2400	4,3
2600	4
2800	3,7

Fb= Vertical force of 10kN spread over area of 1300 x 250mm



Designed by Markku	Checked by	Approved by	Date 2017-10-03	Date 2017-06-08	lh=800
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MPPR LIFTS AB

Strategos Superior std

16008

Edition
2

Sheet
1 / 1

Clearances

"A"
Horizontal distance between the platform and the wall
145mm if smooth, 355mm if irregular

Anchors

Horizontal & Vertical 3 minimum (see installation information) for further details of substrate requirements and type (Only use the fixation angles in the upper level)

Platform floor finish

Standard - Aluminium chequer plate

Electrical supply (Main switch)

1ph L, N, PE, 3 x 2,5mm² 16A

Technical Data

Rated capacity: 400kg / 2 person

Speed: 0,08m / s

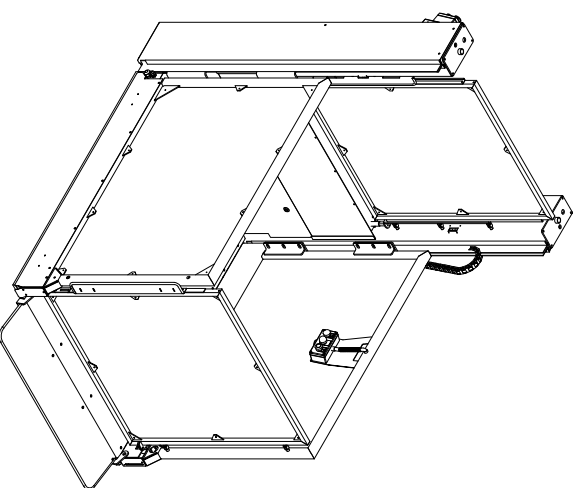
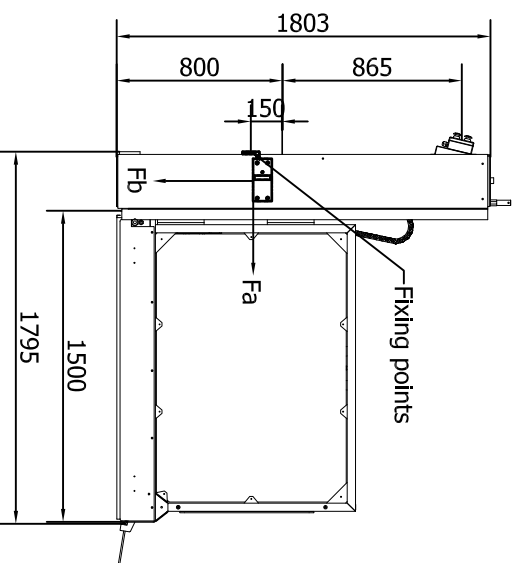
Drive: 3,0KW Electrical motor / Belt drive

Electrical Connection: Single phase, 3 x 2,5mm²

Control voltage: 24Volts

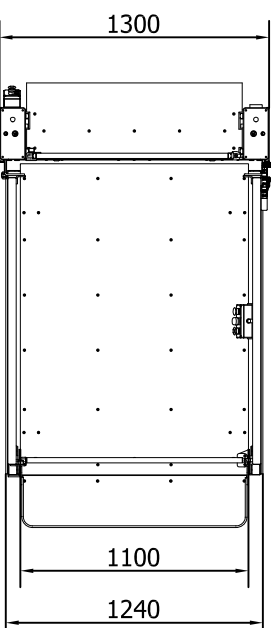
Soft start / Stop by frequency inverter

Drive system: Screw / Nut, double



HORIZONTAL FORCES	
Fixing height mm	Total Anchor Force Fa, kN
400	25,8
600	17,2
800	12,9
1000	10,3
1200	8,6
1400	7,4
1600	6,5
1800	5,7
2000	5,2
2200	4,7
2400	4,3
2600	4
2800	3,7

Fb= Vertical force of 10kN spread over area of 1300 x 250mm

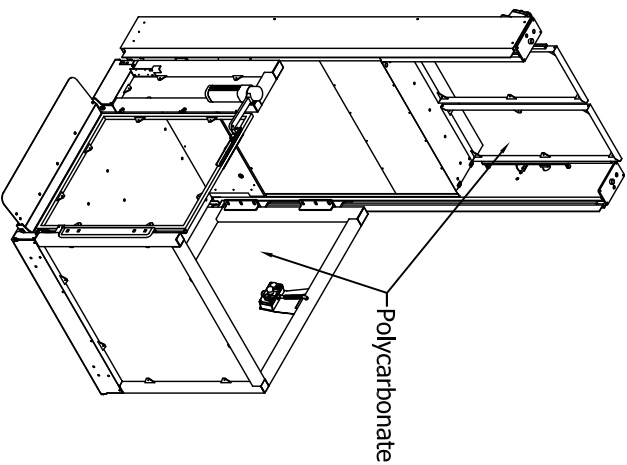


Designed by markku	Checked by	Approved by	Date 2018-03-21	Date 2018-03-21
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MPR LIFTS AB

strategos superior automatic doors
16009
Edition 1
Sheet 1 / 1

(1:30)



Polycarbonate

Clearances

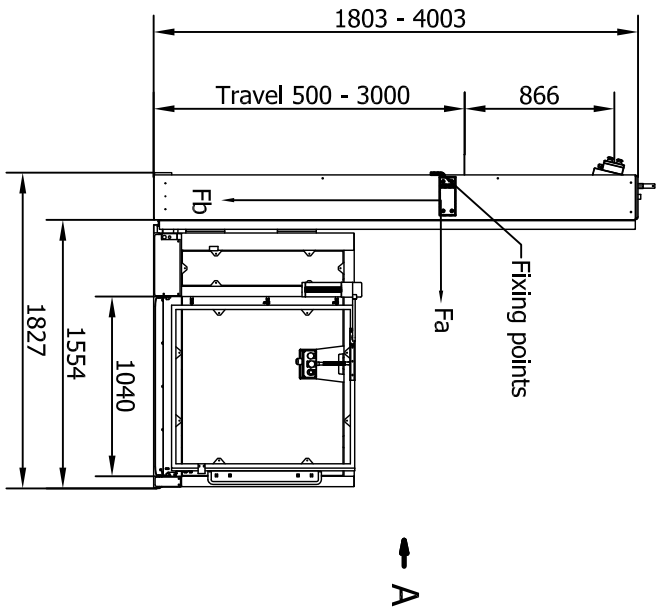
"A"
Horizontal distance to adjacent surface
100mm if smooth, 325mm if irregular

Anchors
Horizontal & Vertical 2 minimum (see installation information) for
further details of substrate requirements and type

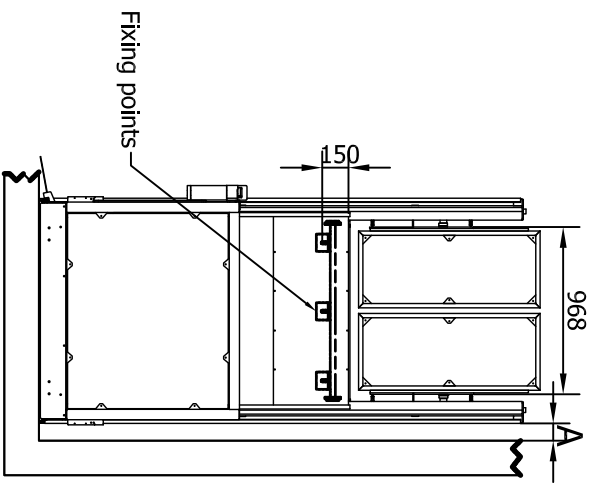
Platform floor finish
Standard - Aluminium chequer plate

Electrical supply (Main switch)
1ph L, N, PE, 3 x 2,5mm² 16A

Technical Data
Rated capacity: 400kg / 2 person
Speed: 0,08m / s
Drive: 3,0kW Electrical motor / Belt drive
Electrical Connection: Single phase, 3 x 2,5mm²
Control voltage: 24Volts
Soft start / Stop by frequency inverter
Drive system: Screw / Nut, dubble



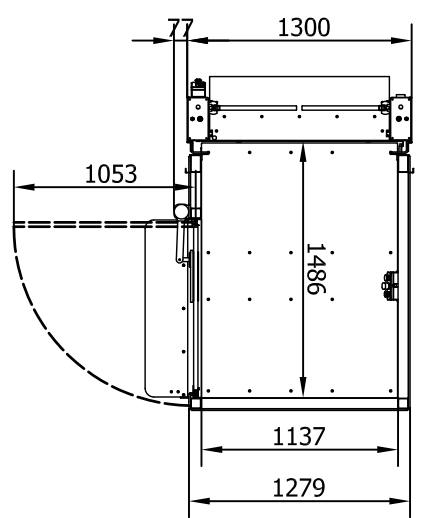
→ A



A - A

HORIZONTAL FORCES	
Fixing height mm	Total Anchor Force Fa, kN
400	25,8
600	20,7
800	12,9
1000	10,3
1200	8,6
1400	7,4
1600	6,5
1800	5,7
2000	5,2
2200	4,7
2400	4,3
2600	4
2800	3,7

Fb= Vertical force of 10kN spread over
area of 1300 x 250mm



Side Access Door left side

Designed by Markku	Checked by	Approved by	Date 2017-10-03	Date 2017-09-28	Lh=1800
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MPR LIFTS AB

STRATEGOS SUPERIOR

16012
Edition 2
Sheet 1 / 1

Transportmått och vikter för Strategos Superior

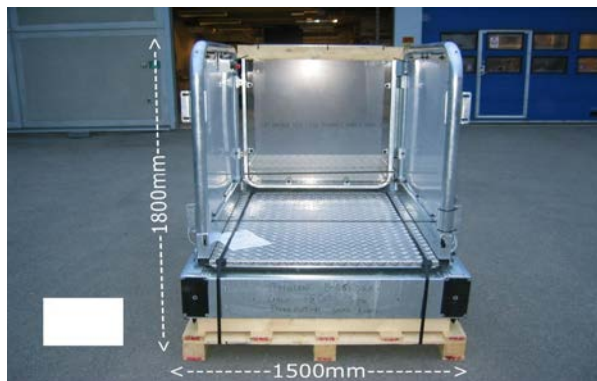
Varunummer	Lyfthöjd mm	Längd mm	Bredd mm	Höjd mm	Vikt Kg
	800	2400	1500	1800	585
	1000	2400	1500	1800	620
	1200	2400	1500	1800	640
	1500	3300	1500	1800	670
	1800	3300	1500	1800	700
	2100	3300	1500	1800	730
	2500	4200	1500	1800	760
	2800	4200	1500	1800	785
	3000	4200	1500	1800	805

Transportmått och vikter för hissar med montagestativ

Lyfthöjd 800-1800, längd 3000mm bredd 1500mm höjd 2200mm **vikt tillägg** 200 kg
Lyfthöjd 1800-3000, Längd 4200mm bredd 1500mm höjd 2200mm **vikt tillägg** 250 kg

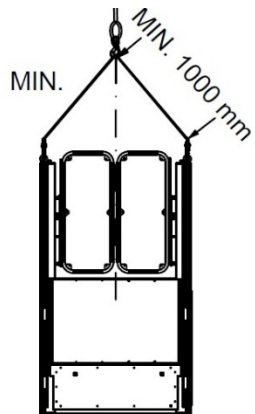
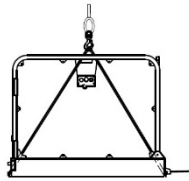
Uppackning av liften

Lyftplattformen är vid leveransen packad i två delar på en lastpall



Vid lyft med kranbil

Vi rekommenderar att liften transporteras och lyftes med kranbil till platsen för monteraget och lyftes av enligt medföljande instruktion.



Liften färdigmonterad



Montering

Lyftstativet placeras på uppställningsplatsen och förankras med medföljande förankringsjärn i väggkonstruktion. Se infästningsexemplen. Lyftstativet skall understödjas eftersom det blir horisontellt tryck mellan den nedersta delen av fundamentet. Detta skall tas med i beräkningen vid montering mot ex. altan eller trä däck.

Rekommenderat infästningsmaterial

Montören skall alltid göra en bedömning av infästningsmaterialets beskaffenhet och vid behov i samråd med berörd fastighetsägare.

Vid infästning i betong rekommenderas 3st.

Expanderbult M12 av minst 8.8 kvalitet

Vid infästning i trä rekommenderas 3st.

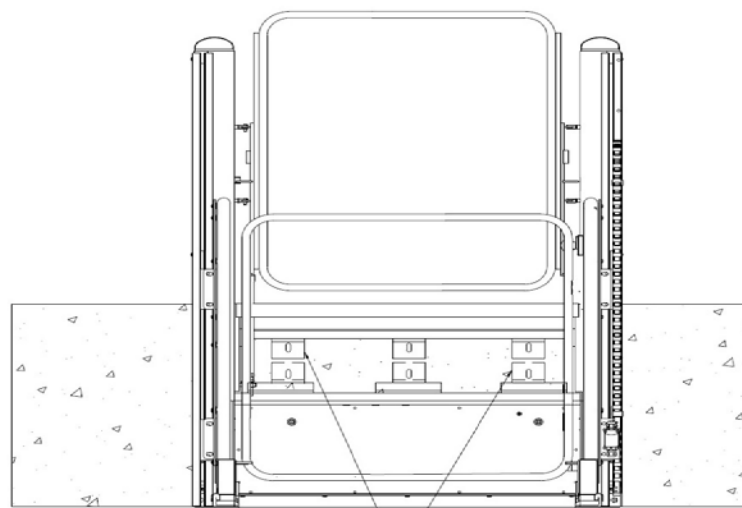
Genomgående bultförband med mutter och stor bricka

Vid infästning i lättbetong rekommenderas 3st.

Kemiskt ankare

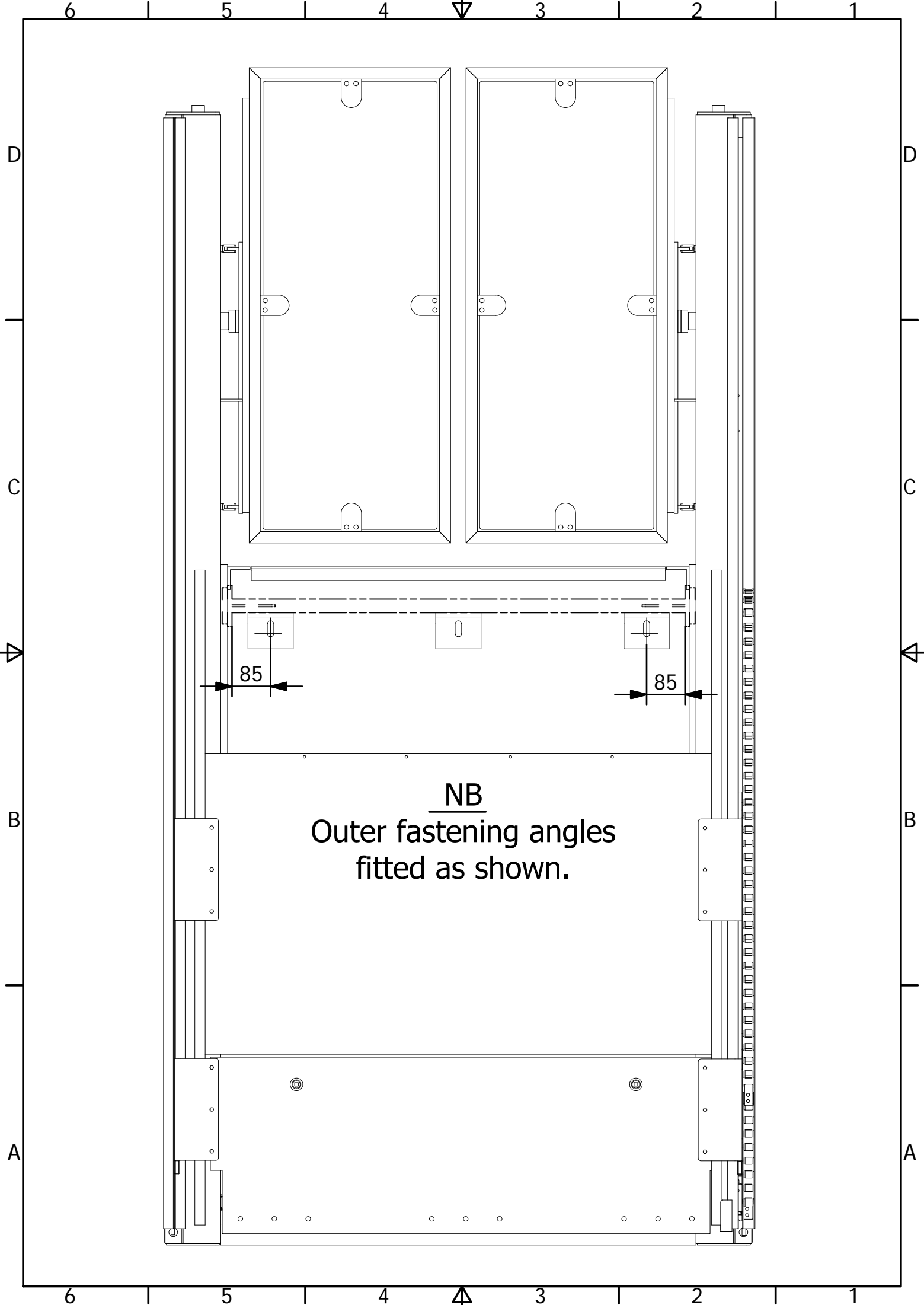
OBS! Säkra infästningsvinklarna med medföljande rörstift (se ritning)

Infästningsexempel

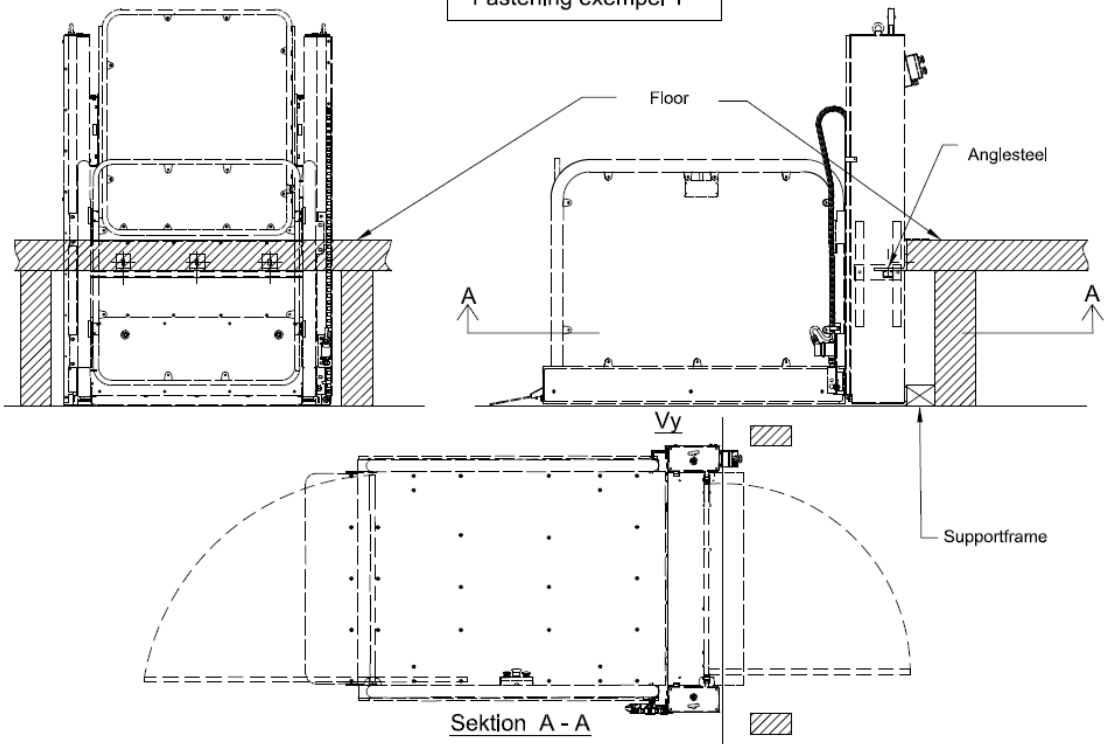


Alternativ placering av fästpunkt
beroende på lyfthöjd
Fastening points depending on
lifting height

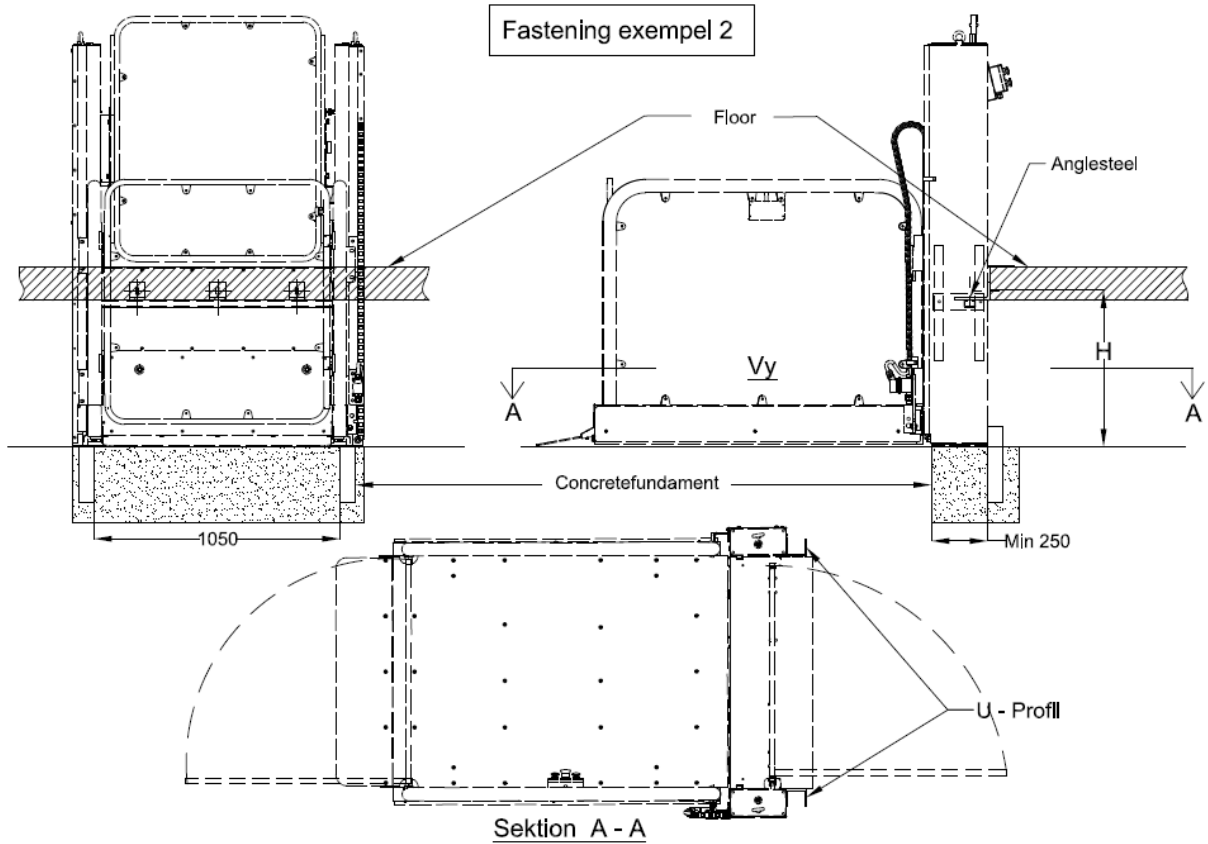
Liften kan förankras antingen på motorrumstaket (lyfthöjd 800) eller i förankringsbryggan beroende på liftens lyfthöjd eller infästningsmaterialets beskaffenhet.

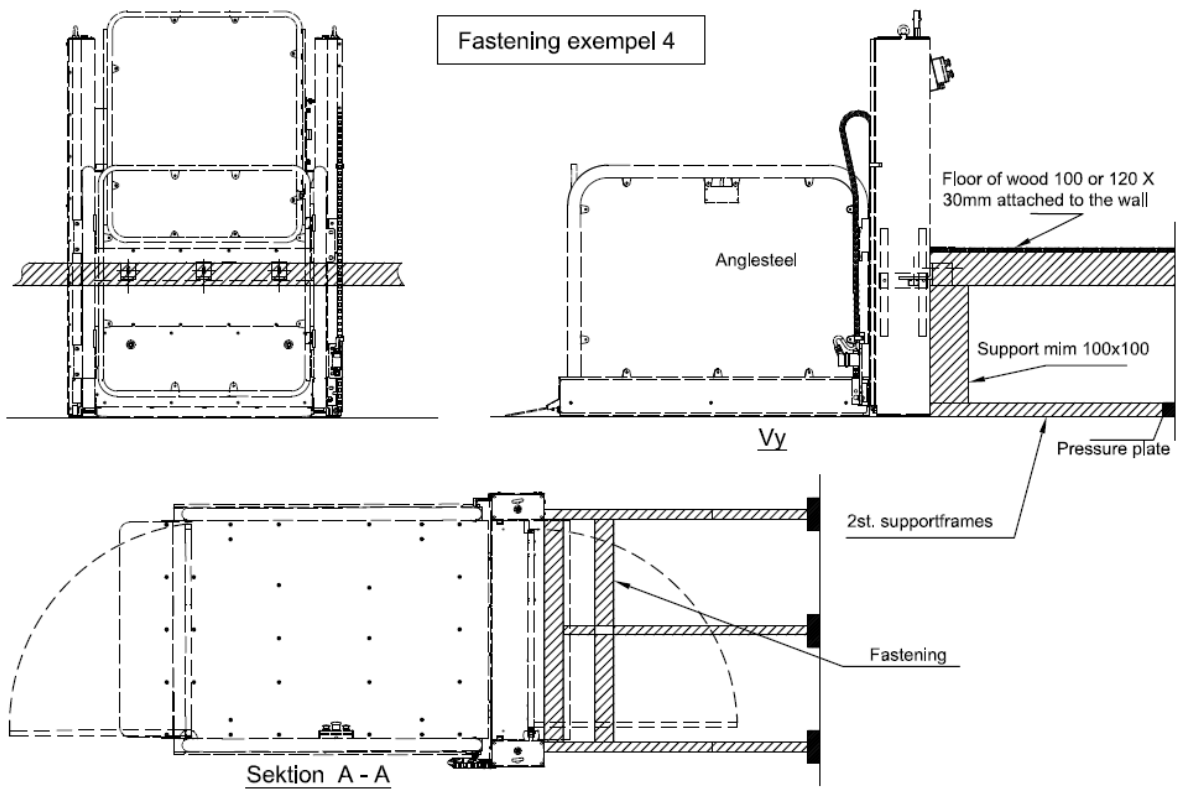
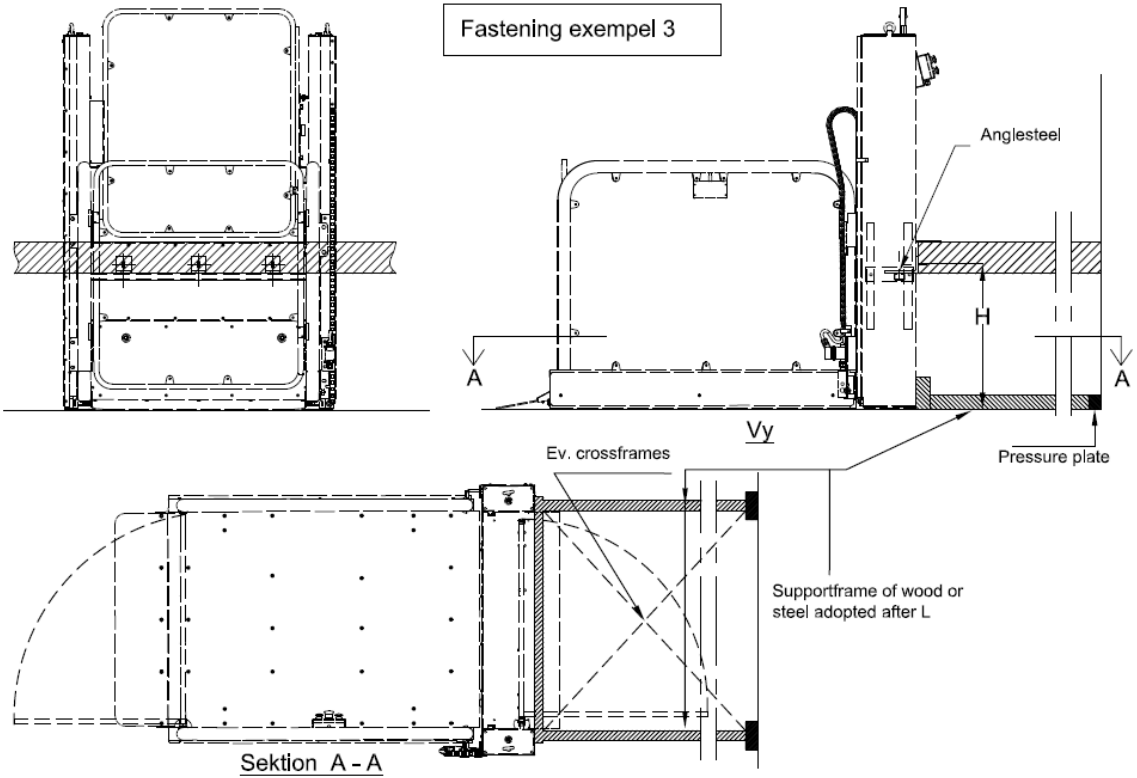


Fastening exempel 1

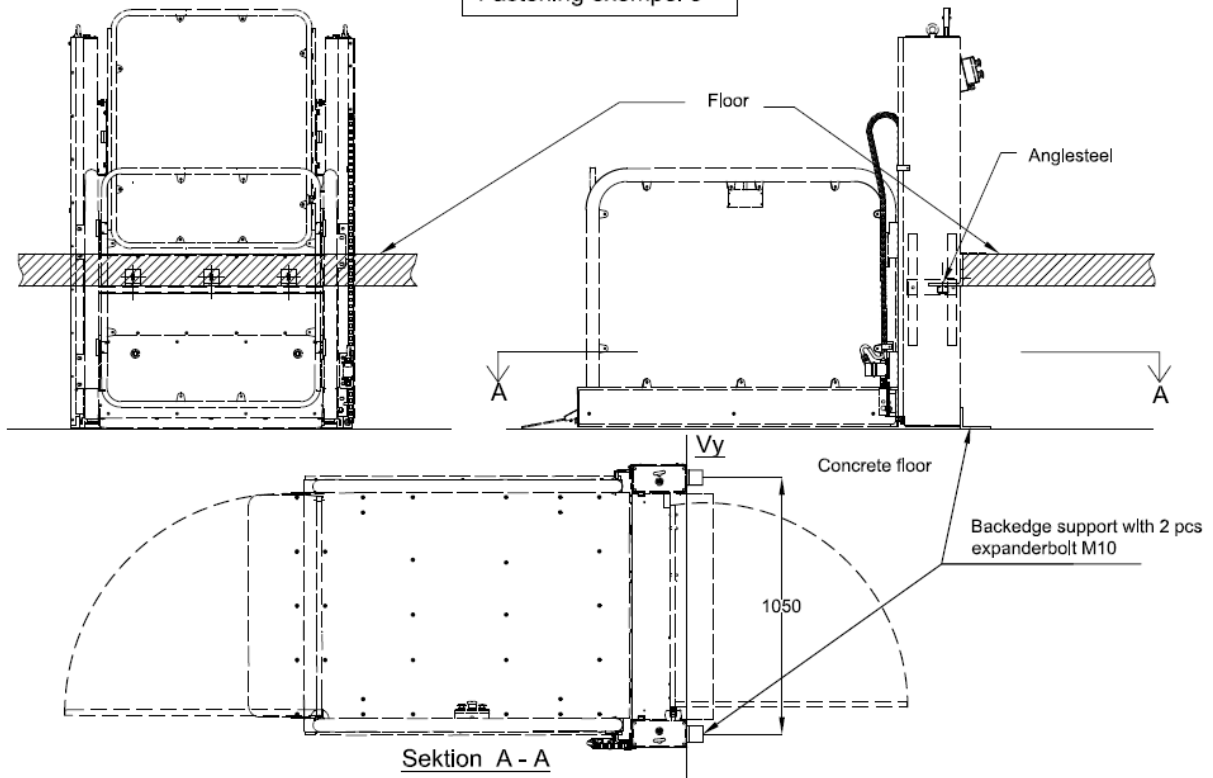


Fastening exempel 2

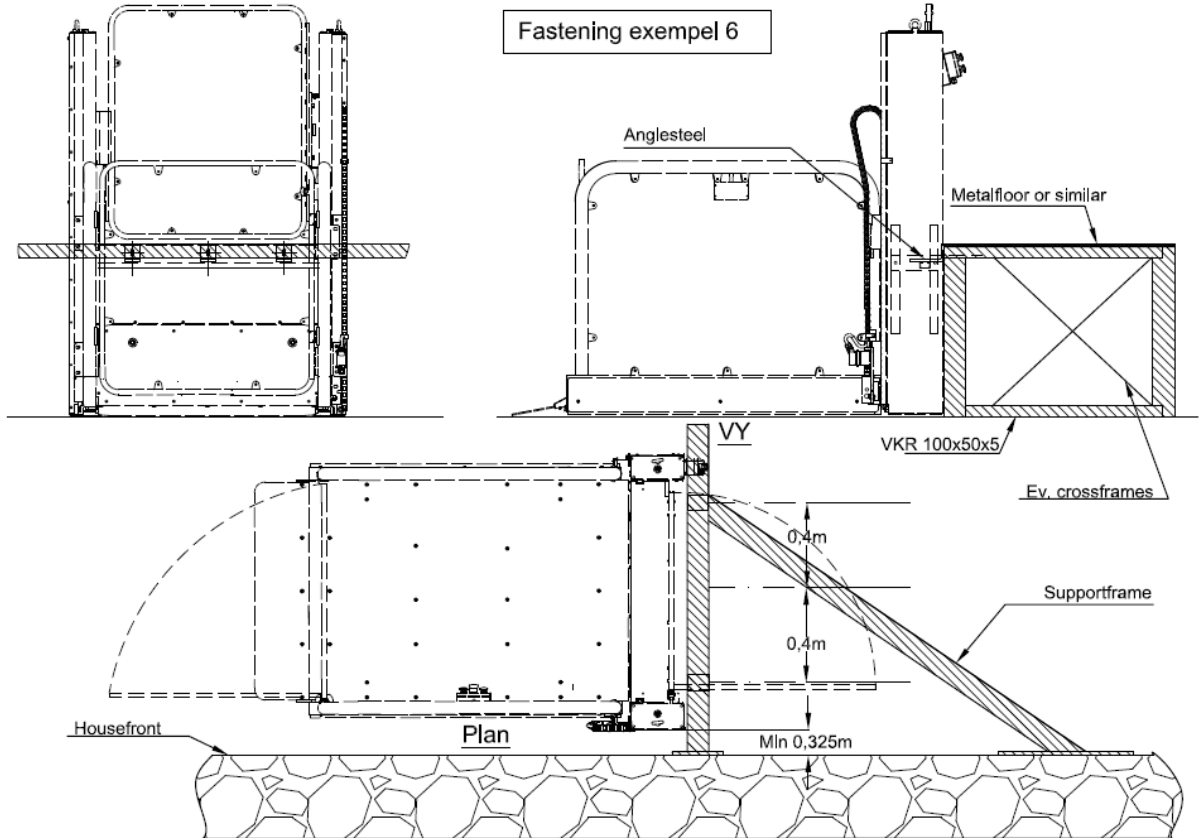


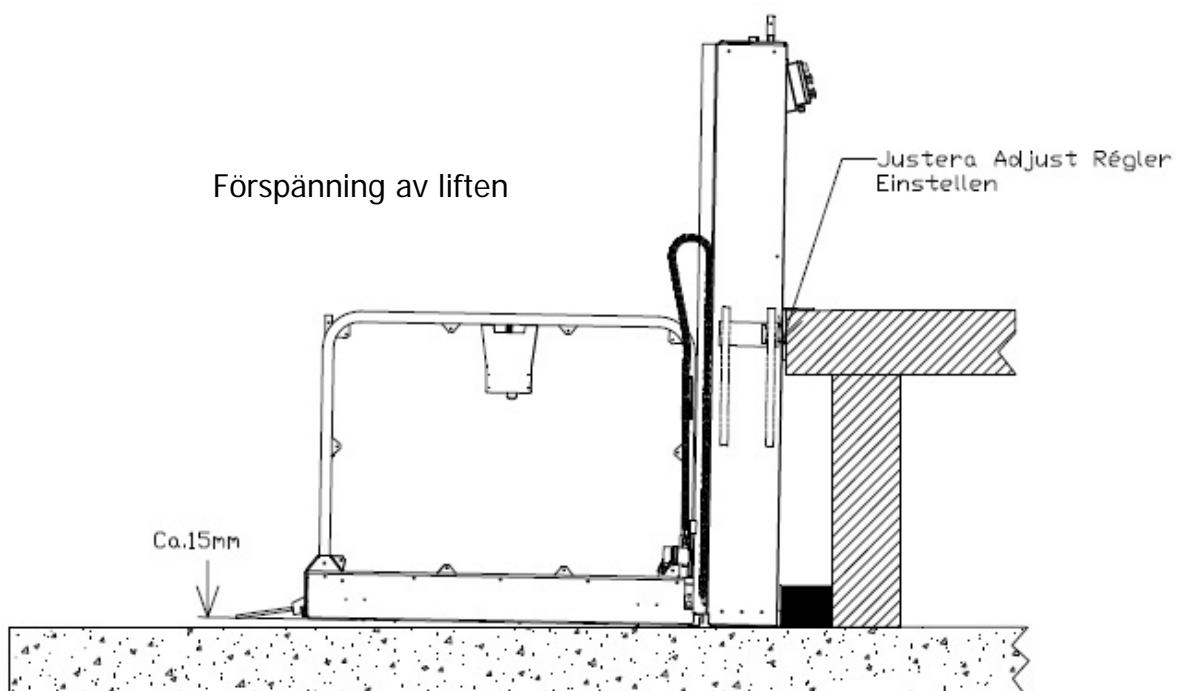


Fastening exempel 5

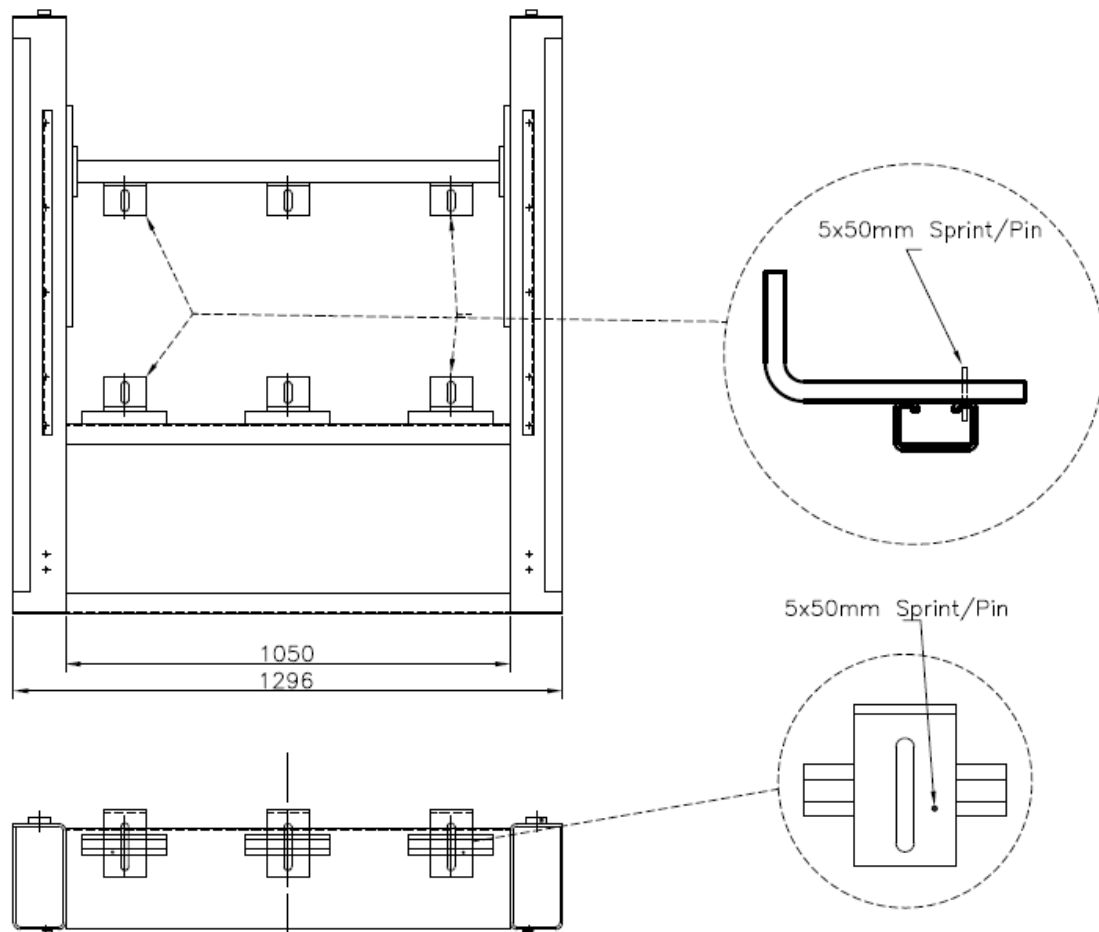


Fastening exempel 6



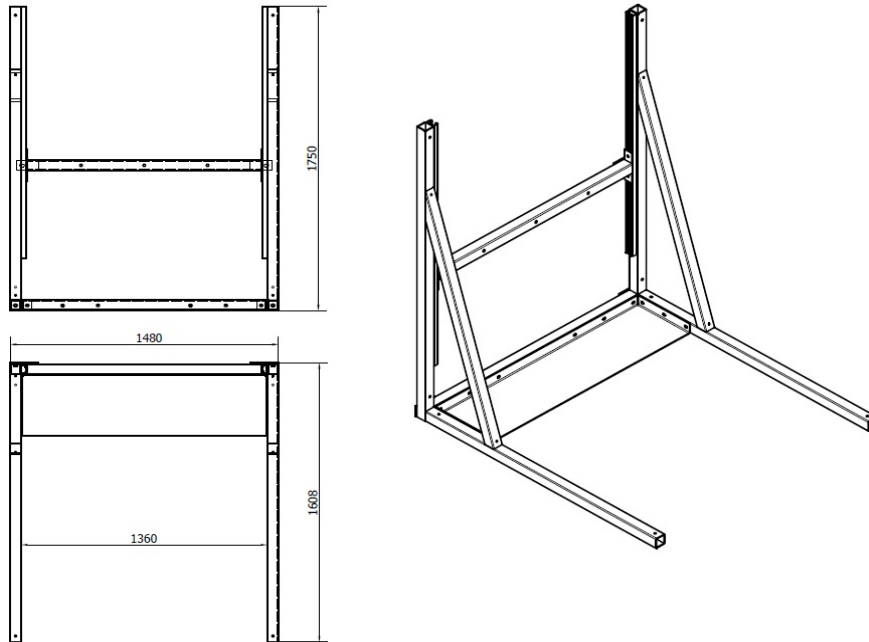


Säkra infästningsvinklarna med medföljande rörstift 4st

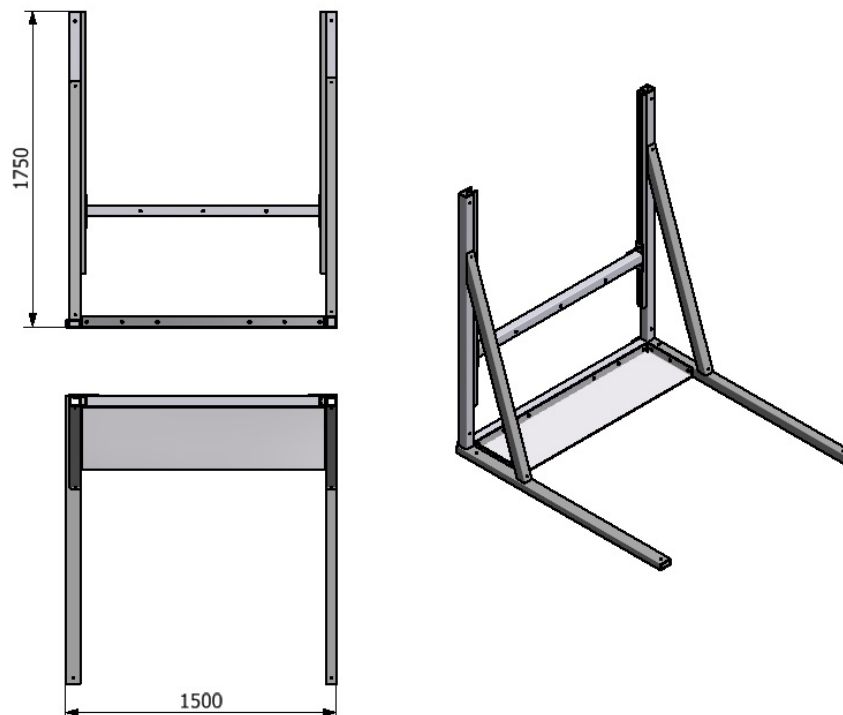


Vid användning av montagestativ skall gjuten betongplatta finnas för fast förankring av montagestativet.

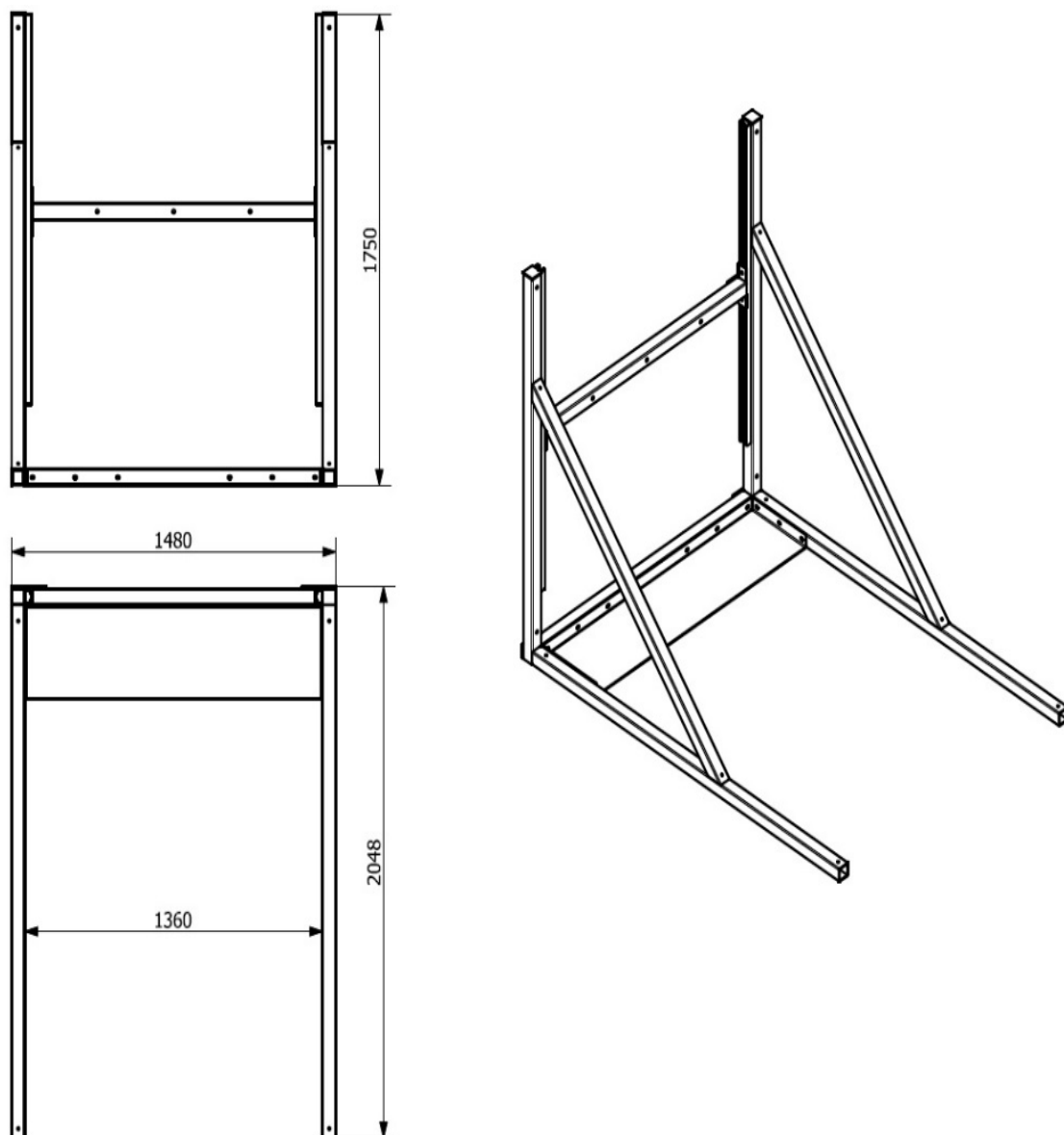
Montagestativ för standard korg för lyfthöjder 500mm till 1800mm



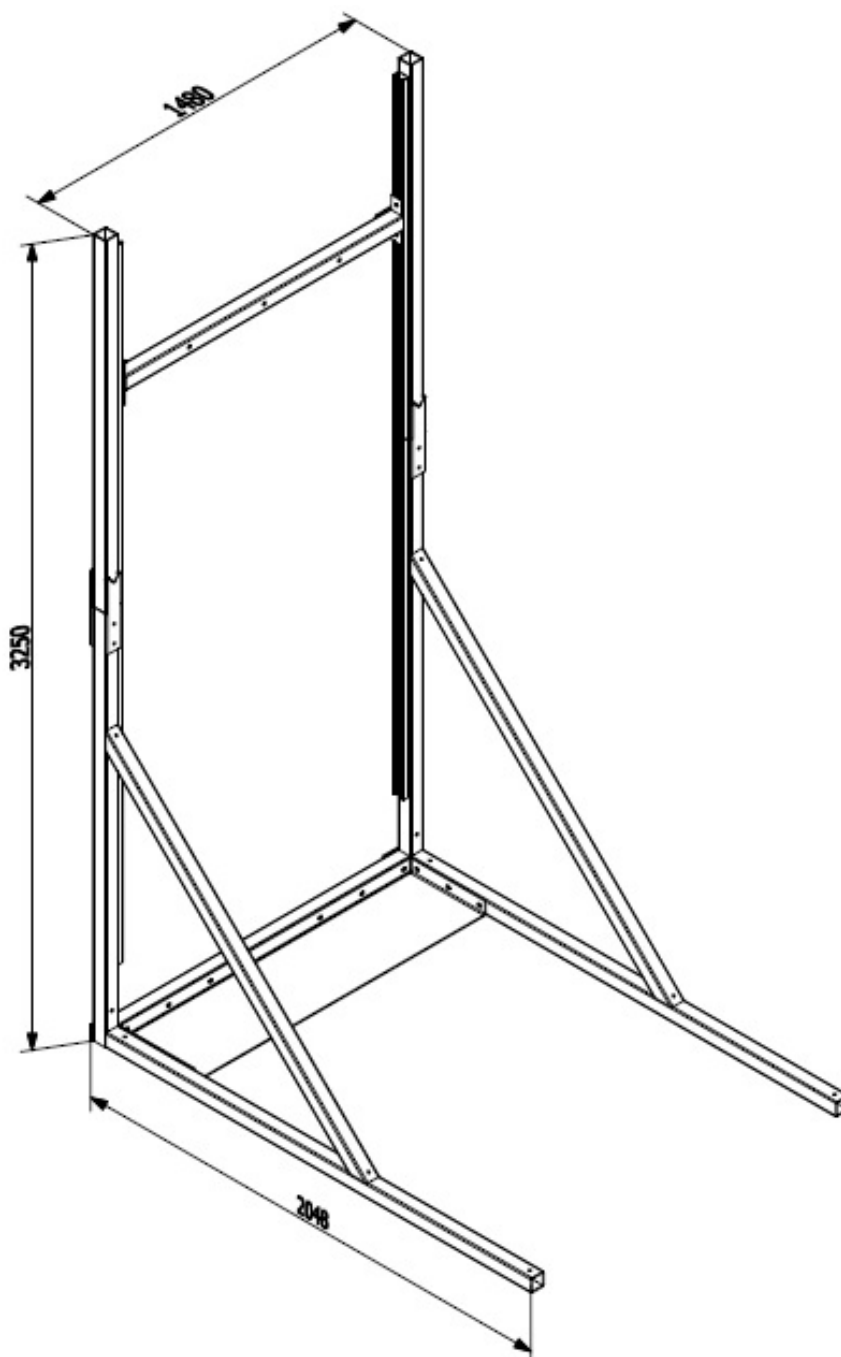
Montagestativ för sidokorg för lyfthöjder 500mm till 1800mm (beställs höger/vänster)



Montagestativ för förlängd korg 500mm till 1800mm



Montagestativ för standarkorg från 1800mm till 3000mm



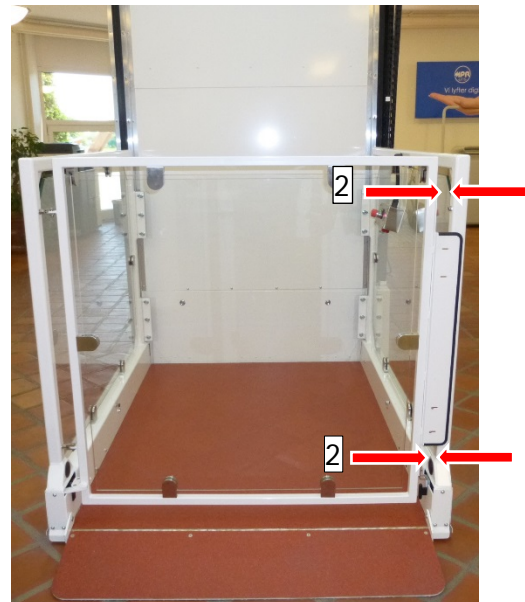
Montagestativ för sidokorg från 1800mm till 3000mm (vänster/höger)



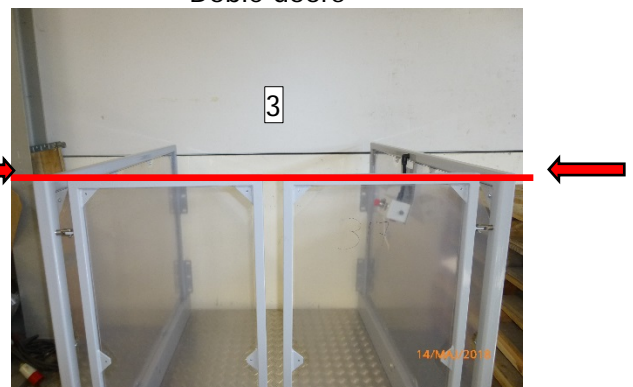
Adjustment of side panels by installation

When installing the platform the bricks must place as delivered (if there are).

1. Adjust the side panels by the upper attachment (left and right)
2. Check that the distance between the door and the side panel is the same (up and down)

Single doors**Doble doors**

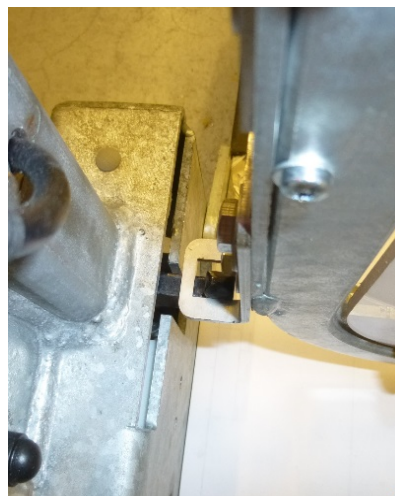
3. Straight line on the top of the doors



Single Doors

Check/adjustment of the magnetic switch S26

Magnetic switch adjusted in height and sideways so that the activation distance is adjusted correctly and that the locking mechanism lock properly.



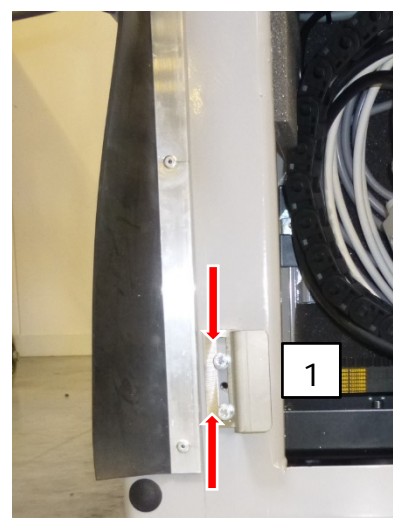
Right

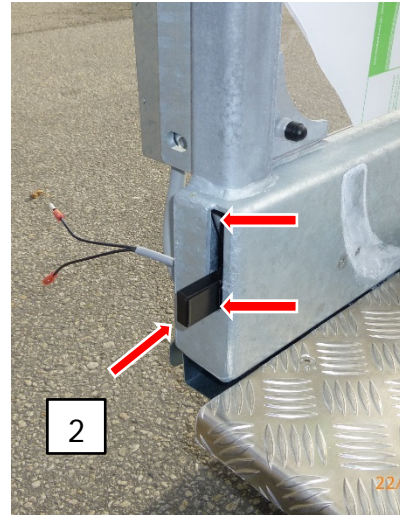


Wrong

Adjustment/checking of the locking mechanism

Adjust the door opening cam (1) in the way that the locking frame runs with it's whole length of movement.





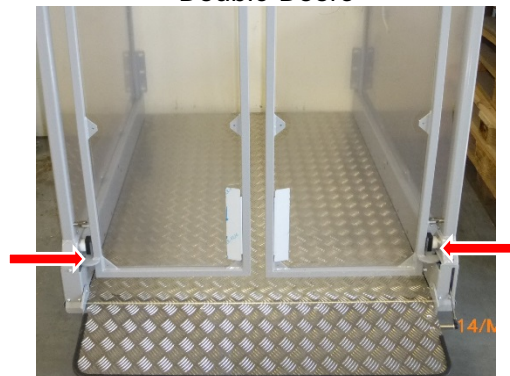
Adjustment/checking of the locking mechanism

Check the locking mechanism of the doors in the direction that it function correct, adjust if necessary.

Single Door



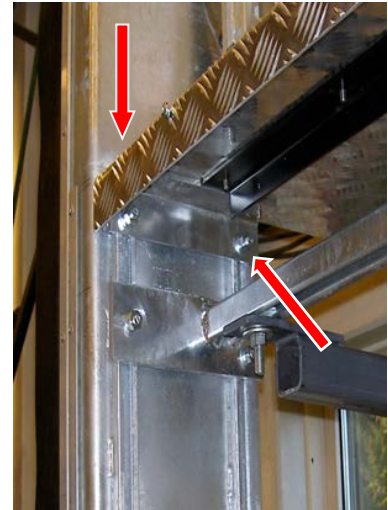
Double Doors



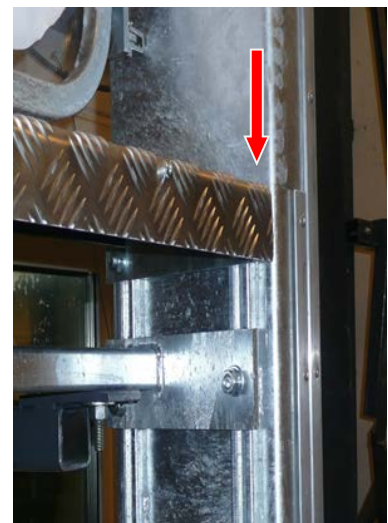
Adjustment of lifting height, upper level



Unlock 4 pcs of nuts and move the threshold downwards to the wished height.



Adjust to the wished height

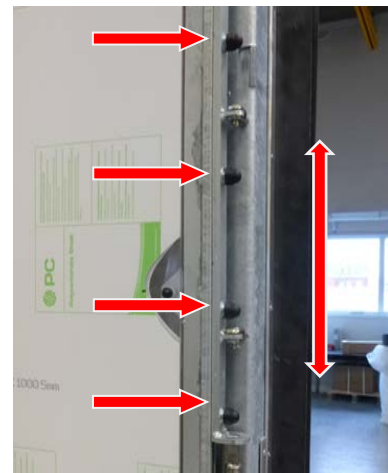


Height adjustment of the door in the lifting device

Unlock 4 pcs M10 nuts and adjust the door to the wished position.

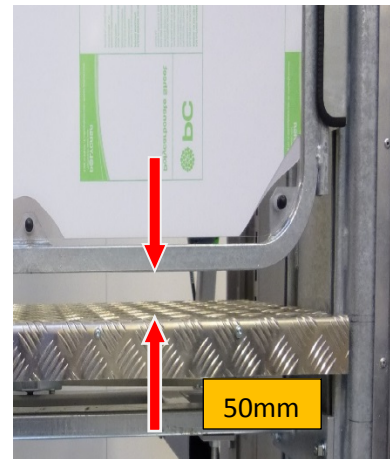


Double Doors



Double Doors

Height between the door in the lifting device and the threshold should be 50 mm. **important!**



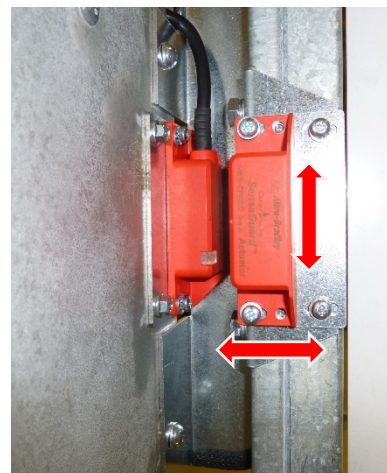
Checking/adjustment of the locking mechanism

The locking cam should be adjusted in height though the locking mechanism functions correct.



Check/adjustment of the magnetic switch S28

Magnetic switch adjusted in height and sideways so that the activation distance is adjusted correctly and that the locking mechanism lock properly.



Before running the Strategos**Dismount the side panels of the lifting device**

To be able to make necessary checking's and adjustments the side panels **MUST** be dismantled.

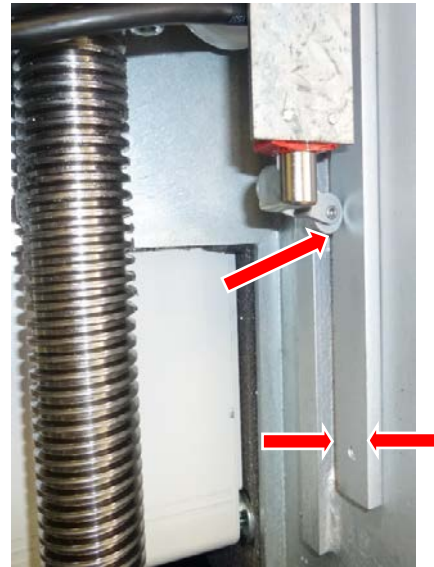
Control of lifting wheel and switches IMPORTANT

There are two lifting plates - one on each side of the frame, check that the lift wheels are in the right position (picture1) Check that the switch wheel (**S3-2** and **S6-2**) **runs on the track** (picture2).

Right side



Picture1

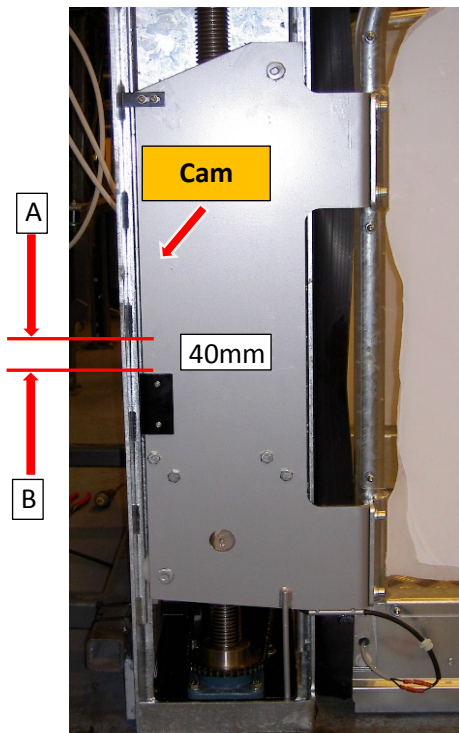


Picture2

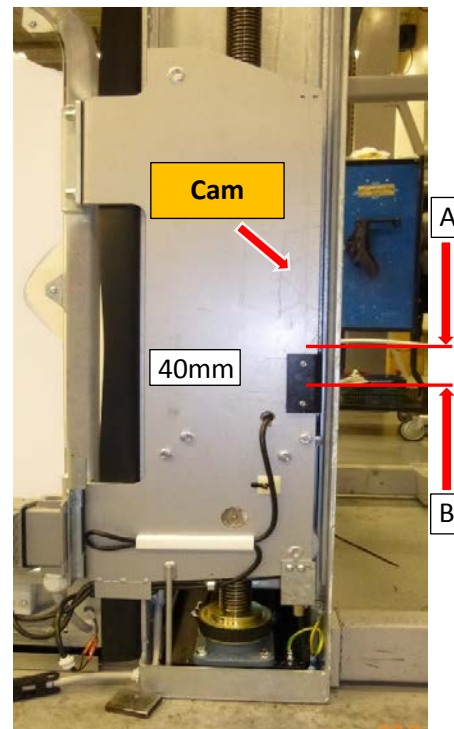
Before running the Strategos

Adjustment of the lifting height

The adjustment of the lifting height is made with the cams on the left and the right side. It's **VERY IMPORTANT** that the distance between A and B has the same height. The distance is adjusted in the factory to 40 mm (max lifting height). To lower the lifting height, adjust the cams upwards **EXACTLY** as much as the lifting height should be lowered.



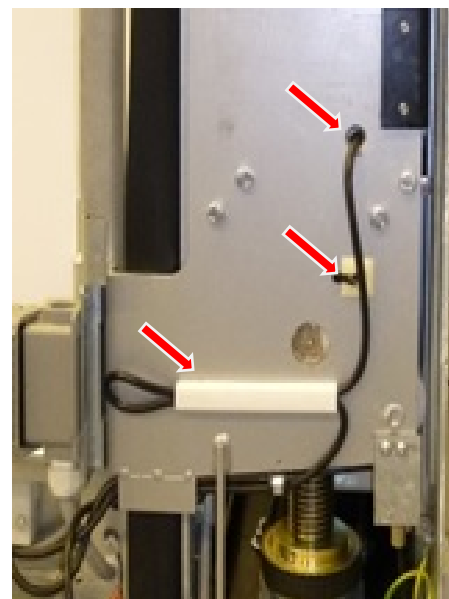
Lifting plate left side



Lifting plate right side

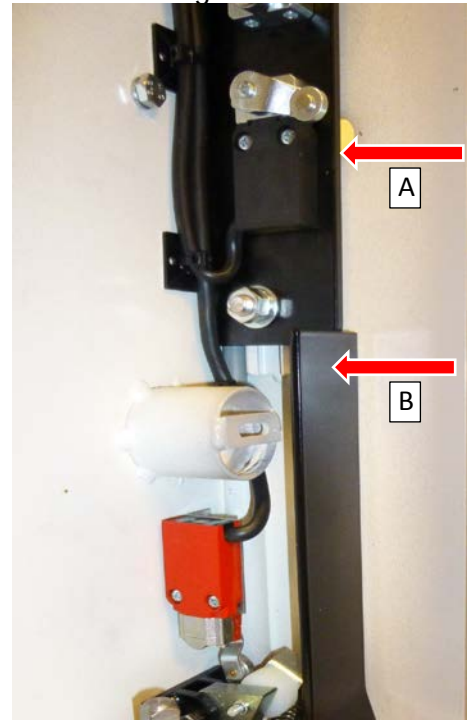
Note by changing of lifting height

The cable for switch S6-2, is placed on the inside of the cam, and follow the cam on the right side. By lowering of the lifting height the cable **MUST** be loose though it can run with the cam upwards. It's very **IMPORTANT** that the cable is attached to the cable holder and the cable channel. By increasing the lifting height the cable must be taken out and being stretched in the same way.



After adjusting the lifting height, check the cam (B) so that it is placed very close to switch plate (A) to have the correct function of the switches.

Right side

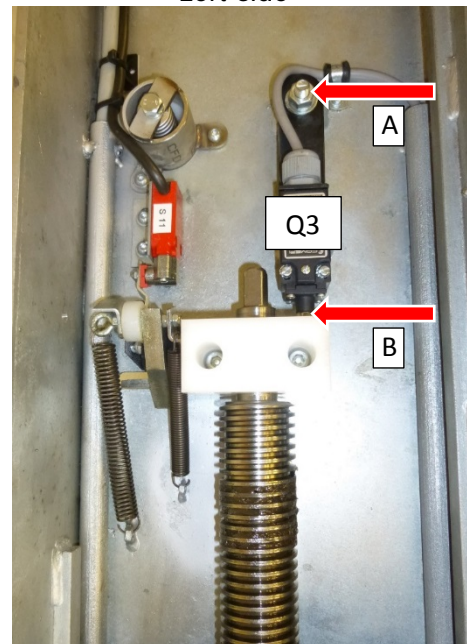


CHECKING OF THE MAIN ENDSWITCH

After adjustment of the lifting height, check the correct function of the main end switch.

1. Run the Strategos to the upper level.
2. Put the crank in its position and wind the platform upwards. After about 3 winds the current should be out, if the main end switch is correct adjusted.
3. If necessary, adjust.

Left side



Test run

Test-run and control all functions according to the checklist **Test run and final inspection**. Test-load the lift with **MAXIMUM LOAD** and adjust the overload setting if necessary according to **instructions overload setting**.

OVERLOAD SETTING



THE STRATEGOS MUST BE TESTED WITH OVERLOAD BY EVERY INSTALLATION. IT MUST BE TESTED WITH UP TO 25 % OF THE MAXIMUM LOAD OF 400 KG

Overload protection lower level

1. Press arrow down 2 times. (↓) **Par** will be shown in the display.
2. Press ENTER **A1-01** will be shown in the display and **A** blinks.
3. Press arrow down (↓) 2 times to reach **q** (**q** blinks)
4. Press RESET 2 times (**01** blinks)
5. Press arrow up (↑) 2 times to reach **q 01-03** (**03** blink)
6. Press ENTER once, value will be shown (**approximate 98,0**) value **98,0 = overload protection lower level.**

Adjustment

7. Press RESET 2 times, the **second digit blinks**, press arrow up (↑) or down (↓) to adjust the value. Press ENTER. (Display shows **END**, value will be saved.)
Push **ESCAPE** several times to come back run position= 15.00 Hz

Overload protection upper level

1. Press arrow down 2 times. (↓) **Par** will be shown in the display.
2. Press ENTER **A1-01** will be shown in the display and **A** blinks.
3. Press arrow down (↓) 2 times to reach **q** (**q** blinks)
4. Press RESET 2 times (**01** blinks)
5. Press arrow up (↑) 3 times to reach **q1-04** (**04** blinks)
6. Press ENTER once, value will be shown (**approximate 70,0**) value **70,0 = overload protection upper level**

Adjustment

7. Press RESET 2 times, the **second digit blinks**, press arrow up (↑) or down (↓) to adjust the value. Press ENTER. (display shows **END**, value will be saved.)

Press **ESCAPE** several times to come back to run position = 20.00 Hz

FINAL INSPECTION

Test run and final inspection done by the checklist **Testing and final inspection**.



Lift No		Location	
Date		Controlled by	

Test run and final check	Controlled	Remarks
Check all functions of the lift		
Make sure the security functions work. Emergency stop, safety plate under platform, door lock, door switch and overload alarm		
Check end stops up and down and that all control panels works correctly		
Run the lift several times up and down to ensure that all functions are working correctly		
Check emergency lowering and the main limit switch setting using the emergency crank		
Test load the lift with maximum load, adjust the overload protection if necessary according to enclosed instruction.		
Visual inspection of the lift	Controlled	Remarks
External control of the lifts (doors, polycarbonate, cover plates and that no details are damaged etc)		
Make sure the lift is complete and no details are missing		
Cleaning the elevator (polycarbonate, platform floor and area around assembly site, etc.)		
Instruktioner till brukare	Controlled	Remarks
Test run the lift with the user and instructs and informs about all the lifts functions and safety risks		
Service and maintenance routines and etc		

Note that the instruction must be applied and signed for the CE - confirmation to be valid.

Foundation: The foundation must have a bearing capacity of at least 10000 N.

Wall mounting

Forces in bolt bandage are shown in diagrams. Selection of bandage must be made taking into account the forces and strength of the attachment material. NOTE! 3 pcs. M12 bolts of at least 8.8 quality must be used. In cases where the attachment does not meet the requirements, it may be necessary to mount a separate frame (mounting support frame) on the elevator or to strengthen the mounting foundation

Height mm	Force in bandage N
400	25800
500	20700
600	17200
800	12900
1000	10300
1200	8600
1400	7400
1600	6500
1800	5700
2000	5200
2200	4700
2400	4300
2600	4000
2800	3700

Installation data

Installation height for bolt: _____

Chosen bolt: _____

Capacity of bearing in accordance to the producer: _____

Number of bolts: _____

Depth of drilling: _____

Tightening moment: _____

Measures groundwork: _____

Test load 475 - 500 kg: _____

Date: _____

Made by: _____



CE - DECLARATION OF CONFORMITY

Application of Council Directives **Machinery Directive:**
2006/42/EC
EMC Directive:
EMC 2014/30/UE
EN -61000-6-3
SS 2097-7

Manufacturer's name: **MPR Lifts AB**
Åvägen 4
SE-232 91 ARLÖV
SWEDEN
Telephone: +46 40 43 70 75
Fax: +46 40 43 29 44
E-mail: info@mprlift.nu

Type of equipment **LIFTING PLATFORM**

Model: **MPR STRATEGOS SUPERIOR B-LIFT/
MPR MID 1000 SUPERIOR**

Serial No:

Year of production:

I the undersigned, hereby declare that the equipment specified above conforms to the above Directives and Standards.

The technical file is stored at the company's address as below.

Arlöv 2018-02-09
MPR Lifts AB

Anders Jönsson
Managing Director

Installers signature

MPR AB
Åvägen 4 - 232 91 Arlöv
Telefon: 040-43 70 75 Telefax: 040-43 29 44
E-mail adress: info@mprlift.nu www.mprlift.nu
Moms reg.nr./Org.nr.: 12-556176-8739
Styrelsens säte: Burlöv
VAT No. SE556176873901



Troubleshooting Strategies Standard valid from: 2016/05/11 →

1. Check that the emergency stop button is not pressed.
2. Check that the overload protection is not activated – if activated switch off the power on the circuit breaker about 30 seconds to reset the overload protection. Adjust if necessary.
3. Open the electrical central in the engine compartment and check that there is power on terminal block No L1 + N= 230 V AC – if not check the power in the building.
4. Check the terminal block No 82 if there is 230 V AC – if not check the main power switch Q3, if it's defective or adjustments is needed, also check that the lifts stops correctly at the top and the bottom landings, If not – check the limit switches S7 at the top and S17+S18+S19+S20 at the bottom (safety plate)
5. Alarms the frequency converter Hbb= (safety circuit 1 and 2) Check if there is voltage (approximate 2 volt) on terminal block No 107-108-109-110-111-112-113-114-115
Terminal block No 107= HC 2 volt. (Safety Circuit Inverter)
Terminal block No 108 = Emergency stop S14
Terminal block No 109 = Crank switch S10 left tower.
Terminal block No 110 = Crank switch S4 + door switch S5 right tower
Terminal block No 111 + 112 = Door switch S11 left tower + bypass switch S6-2 on the lifting bracket on right side.
Terminal block No 113= Door switch S15 + S16 carriage and nut switch S21 and S22 and bypass switch S3-2 on the lifting bracket on right side.
Terminal block No 114= Safety circuit 1= H1→ Inverter
Terminal block No 115= Safety circuit 2= H2→ Inverter
Other troubleshooting check with the wiring diagram for the lift.

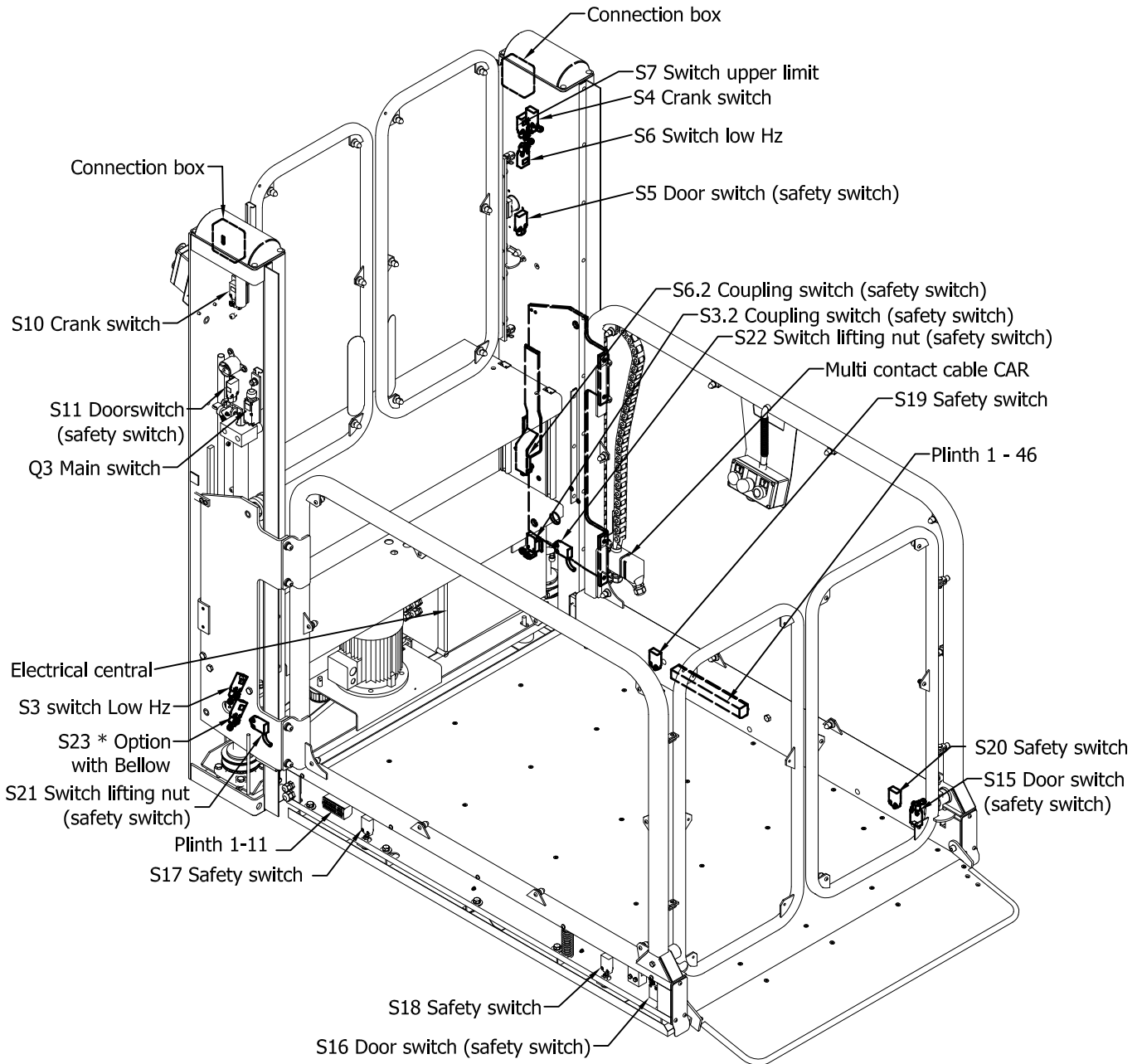
Other troubleshooting check the drawings: No.3042-2, No.2640-4, No.2648-1, No.2650-4, No.2658-1, No.2664-1, No.3051-1, No.2653-1, No.2654



Troubleshooting Strategos automatic doors from 2016-10-22 →

1. Check so that the emergency button is not activated.
2. Check that the overload protection is not activated - if enabled, turn off the power for about 30 seconds to reset the overload protection. Adjust if necessary.
3. Open the switchboard in the engine compartment and check that there is power on terminal No L1+N= 230 V AC. If not! Check work switch, and that there is power from the building
4. Check terminal No 82 if there is 230 V AC – if not! Check the circuit breaker Q3, so it is not defective or adjustment required. Also check that the lift stops correctly at upper and lower landings. If not! Check the upper limit switches S7 and lower S17+S18+S19+S20 (safety plate)
5. **Lift with automatic doors** If the frequency inverter makes a alarm Hbb= (safety circuit 1 and 2) Make sure that there is voltage. (ca 24 volt) on terminal No 108-109-110-111-112-113. If not! Check on which voltage terminal voltage is missing
Terminal No 108= Emergency stop S14
Terminal No 109= Crank switch S10 left tower.
Terminal No 110= Crank switch S4 + door switch S5 right tower.
Terminal No 111+ 112= Door witch S11 left tower + bypass switch.
S-6-2 on lifting bracket right side.
Terminal No 113= Door switch S15 + S16 carriage and nut switch S21 och S22 and bypass switch S3-2 on lifting bracket right side. And then the security plate switch S-17 is. S-18, S-19, S-20, and the door switch S-26is connected, and comes back from the carriage to the terminal block Nr.136 and 137. Check according to item 7.
6. Lift equipped with automatic doors - check so that both doors are closed, check upper door switches S-28 , and lower door switch S-26, so that these are properly adjusted and that the LED shows (Green solid light). If the LED shows (Flashing Green light) there is no voltage to the switch. If the LED shows (Red solid light) the activation distance is too long between the switch and the magnet. If the LED shows (Flashing red light) there is no contact with the switch in any of the circuits in the safety system. If the LED shows (fast flashing light) the switch is probably broken. Other control according to item 7.
7. Door switch S-26 is connected on terminal No 136 and 137 which is linked to terminal No 138 och 139 where the door switch S-28 is connected, and from door switches S-28 to the safety relay's inputs S12 och S52. From the safety relay's outputs No 24 to terminal No 114= safety circuit 1, to H1 on the frequency converter. From the safety relay's output No 14 to terminal No 115= Safety circuit 2, to H2 on the frequency convertor.
Other troubleshooting check with med electrical diagrams No 3040-2, No 2640-6, No 2651-5, No 2653, No 2654, No 2657-4, No 2663-1 for the lift.

STRATEGOS STANDARD
 VALID FROM 2016.05.11 --->

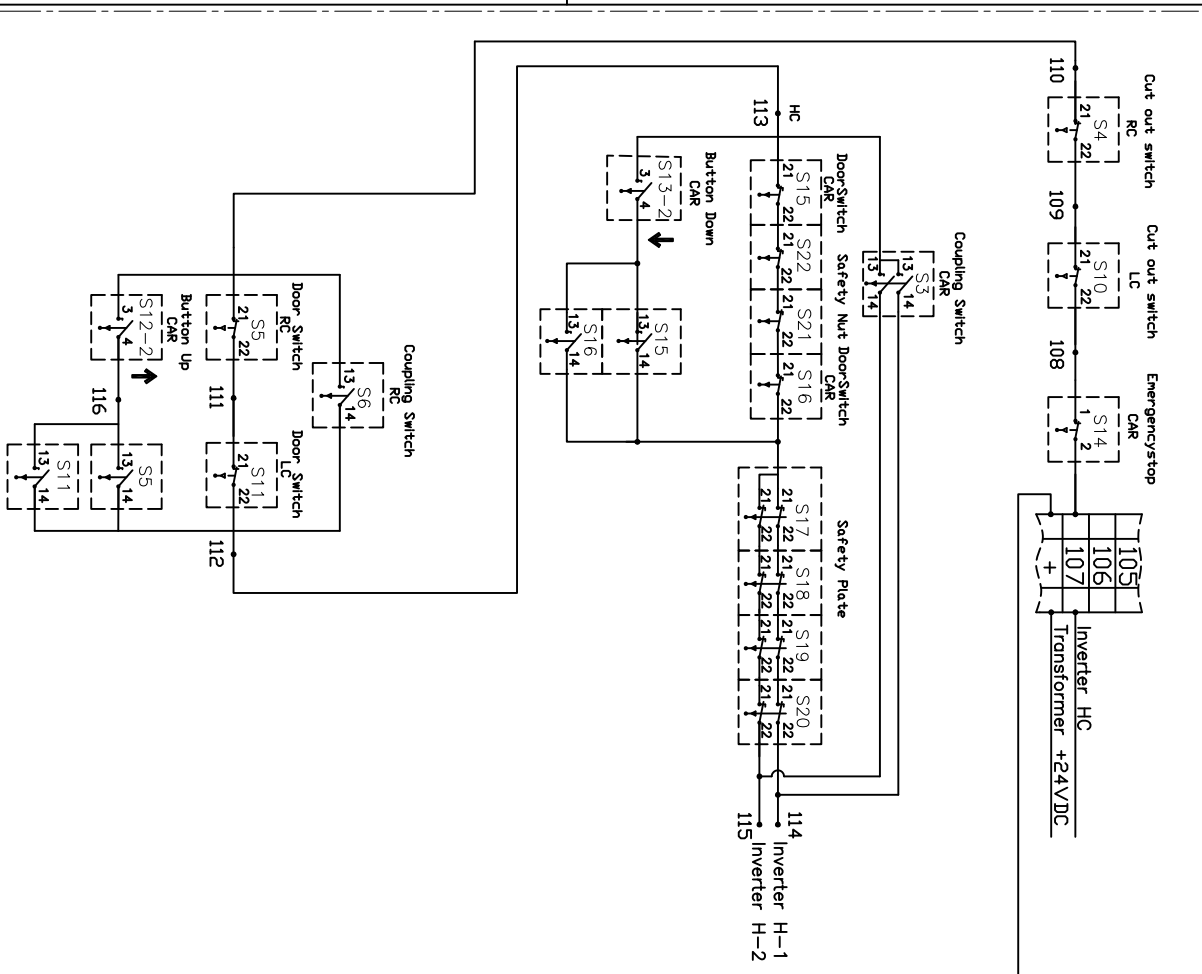


Note on Hbb alarms! check these switches

S3.2 / S4 / S5 / S6.2 / S10 / S11 / S15 /
 S16 / S17 / S18 / S19 / S20 / S21 / S22

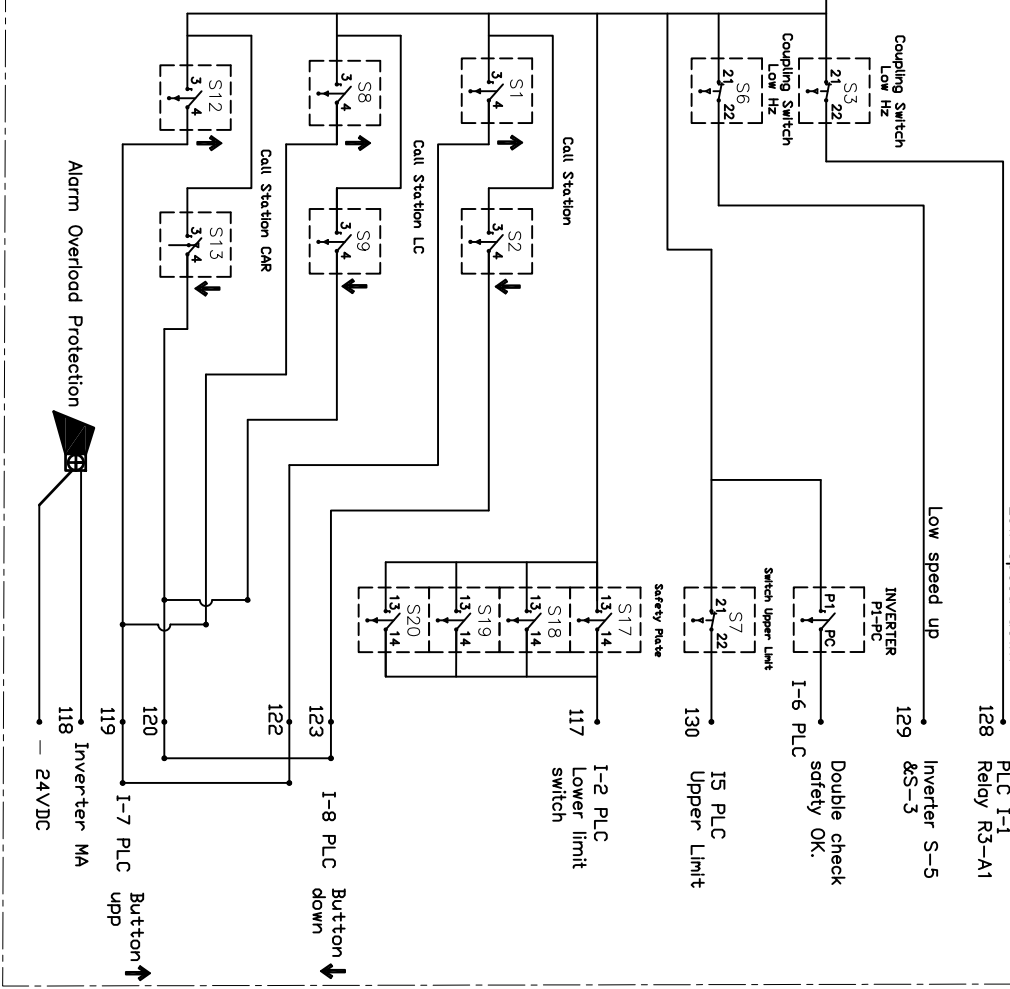
Designed by Markku	Checked by	Approved by	Date	Date 2015-12-02
MPR LIFTS AB			All switches, Strategos std.	
			3042	Edition 2

SAFETY CIRCUIT



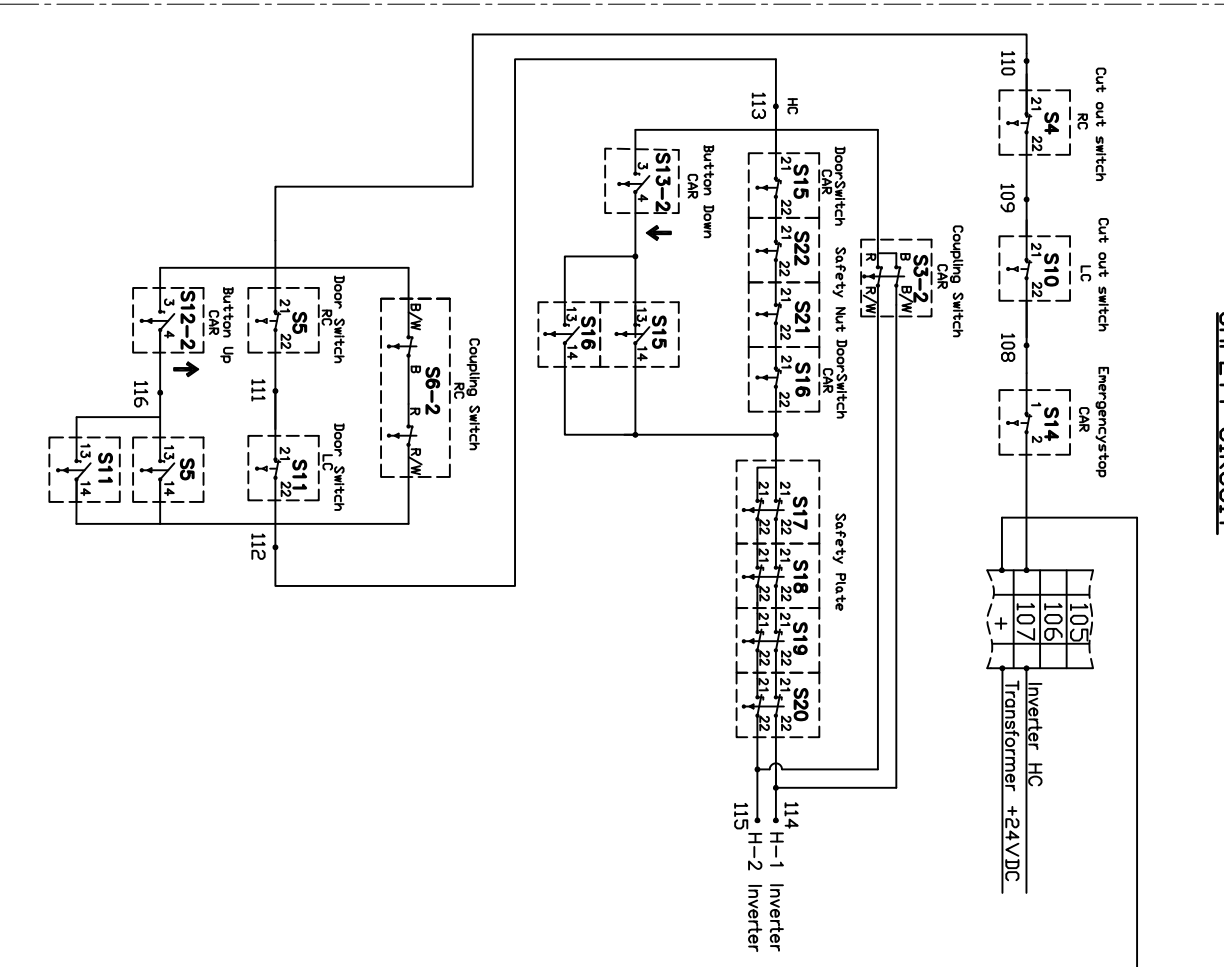
CAR = Carriage
 RC = Right Column
 LC = Left Column
 KD = Carriage Cable

THE CONTROL CIRCUIT



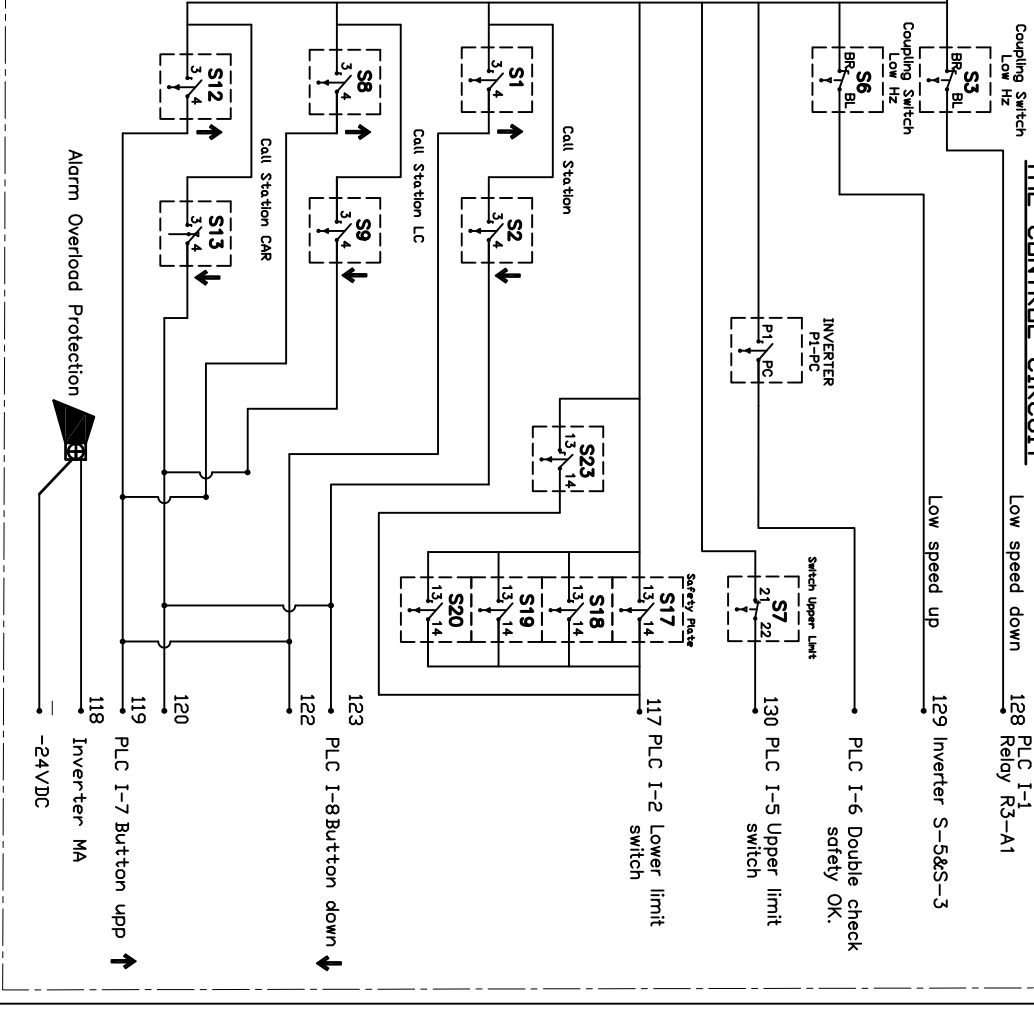
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Avdelning 4 MPPR S-23291 ArBv SWEDEN Tel: +46 40 437075 Fax: +46 40 432944 Kändringar				MÅTT UTMÅTT ISO 0-5 3-1 6-1 10-1 12-1 40-1 100-1 200-1 Z/B 40-05 40-05 40-1 40-15 40-2 40-2 40-2 m 40-1 40-1 40-2 40-3 40-5 40-8 41-2 42 c 40-2 40-3 40-5 40-8 41-2 42 43 44 v 40-5 41 41-5 42-5 44 46 48			Scdio	
Datum			Title:	Huvudritning Strategos Standard				
			GB:	Revision by:				
			D:	Ritning nr: 2640-4				
				Drawn: 15.04.29 Mc/Kut				
				Check: 15.07.29 Utg.4				

SAFETY CIRCUIT



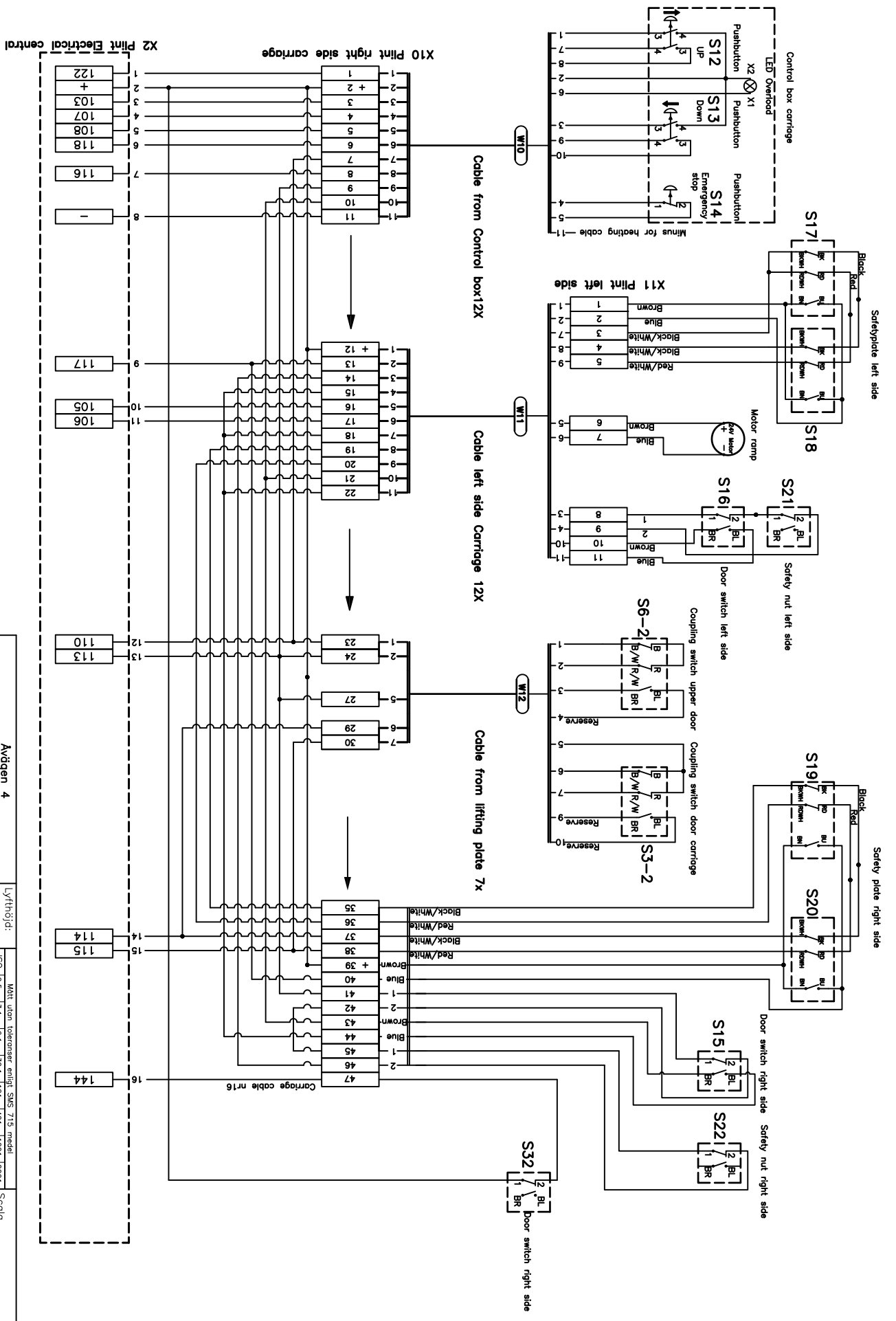
CAR = Carriage
 RC = Right Column
 LC = Left Column
 KD = Carriage Cable

THE CONTROL CIRCUIT

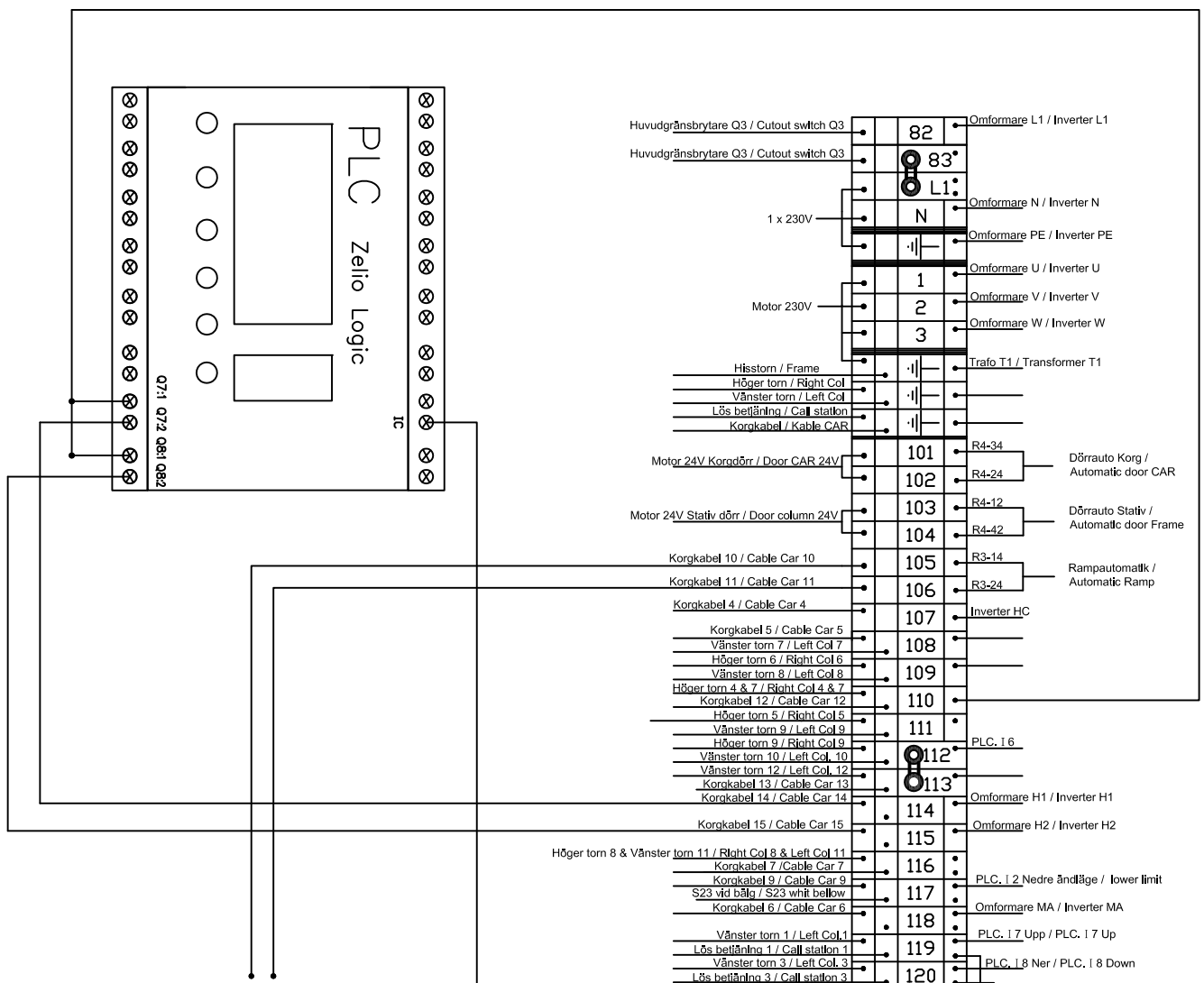


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Avdelning 4			MPP S-23291 ArbV			
MPP SWEDEN			SWELEN			
Tel: +46 40 437075			Fax: +46 40 432944			
Kändringar			Ändringar			
Datum			16.04.05 Utgåva 1			
GB:			D:			
Title:			Strategos Wiring Diagram			
Revision by:			16.04.05 Mc/Kurt			
Replacing:			Draw			
Ritning nr:			2648-1			

Strategos
 Wiring Diagram
 std. with below

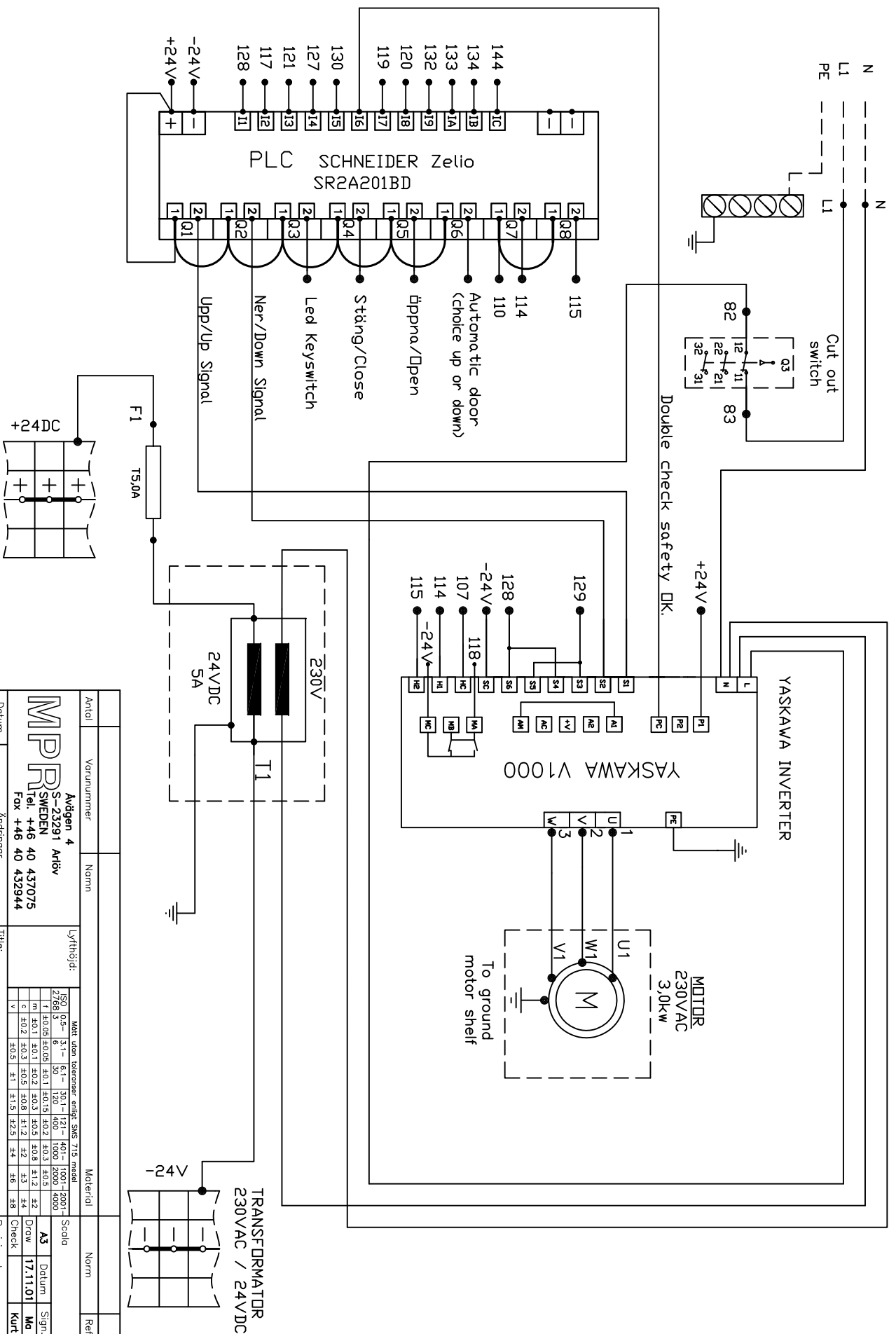


<p>MPPR S-23291 Arliv SWEDEN Tel. +46 40 437075 Fax +46 40 432944</p>		<p>Avögen 4 Arliv SWEDEN Tel. +46 40 437075 Fax +46 40 432944</p>																																																													
<p>Datum: 17.06.26 Utgåva: 3 Ändringar: tillbakakörning</p>		<p>Lyfthöjd: Måt utan toleranser enligt SMS 715 medel</p>																																																													
<p>Title: Wiring Carriage Standard Reverse Run</p>		<p>Scale</p> <table border="1"> <tr> <th>ISO</th> <th>0,5-</th> <th>3,1-</th> <th>6,1-</th> <th>12,1-</th> <th>30,1-</th> <th>121-</th> <th>401-</th> <th>1001-</th> <th>2001-</th> </tr> <tr> <td>27683</td> <td>6</td> <td>30</td> <td>120</td> <td>400</td> <td>1000</td> <td>2000</td> <td>4000</td> <td></td> <td></td> </tr> <tr> <td>f</td> <td>±0,05</td> <td>±0,05</td> <td>±0,1</td> <td>±0,15</td> <td>±0,2</td> <td>±0,3</td> <td>±0,5</td> <td></td> <td></td> </tr> <tr> <td>m</td> <td>±0,1</td> <td>±0,1</td> <td>±0,2</td> <td>±0,3</td> <td>±0,5</td> <td>±0,8</td> <td>±1,2</td> <td></td> <td></td> </tr> <tr> <td>c</td> <td>±0,2</td> <td>±0,3</td> <td>±0,5</td> <td>±0,8</td> <td>±1,2</td> <td>±2</td> <td>±3</td> <td>±4</td> <td></td> </tr> <tr> <td>v</td> <td>±0,5</td> <td>±1</td> <td>±1,5</td> <td>±2,5</td> <td>±4</td> <td>±6</td> <td>±8</td> <td></td> <td></td> </tr> </table>		ISO	0,5-	3,1-	6,1-	12,1-	30,1-	121-	401-	1001-	2001-	27683	6	30	120	400	1000	2000	4000			f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5			m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2			c	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3	±4		v	±0,5	±1	±1,5	±2,5	±4	±6	±8		
ISO	0,5-	3,1-	6,1-	12,1-	30,1-	121-	401-	1001-	2001-																																																						
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m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2																																																								
c	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3	±4																																																							
v	±0,5	±1	±1,5	±2,5	±4	±6	±8																																																								
<p>Revision: 15.11.24 Mg</p>		<p>Sign.</p>																																																													
<p>Replacings:</p>		<p>Drawn</p>																																																													
<p>Ritning nr: 2650-4</p>		<p>Check</p>																																																													



Rampmotor 24V / Automatic ramp 24V

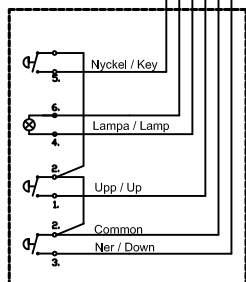
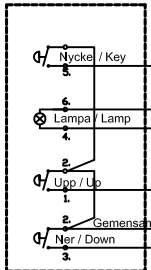
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		S-23291		ISO 0,5 - 5,1 - 6,1 - 30,1 - 121 - 401 - 1001 - 2001 - 2768 3		A3		16.09.22		Kurt
		MPPR SWEDEN		f ±0,06 ±0,05 ±0,1 ±0,15 ±0,2 ±0,3 ±0,5		A3		Draw		
		Tel. +46 40 437075		m ±0,1 ±0,1 ±0,2 ±0,3 ±0,5 ±0,8 ±1,2 ±2 ±3 ±4		A3		Check		16.09.22
		Fax +46 40 432944		c ±0,2 ±0,3 ±0,5 ±0,8 ±1,2 ±2 ±3 ±4		A3		Revision by:		
		Ändringar		v ±0,5 ±1 ±1,5 ±2,5 ±4 ±6 ±8		A3		Replacing n.r.		2658-1
Datum	Titel			GB:		D:		Ritning n.r.		
27.10.04	Tillbakakörning, rampauto			Strategos		Terminalblock standard		with ramp		
				Reverse Run						



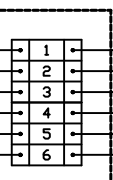
Valid from: 16.10.22 - -->

Artid	Vorrunnummer	Namn	Lyfthöjgd:	Mått utöan tolvemnar anligg SMS 715 medel	Material	Norm	Ref
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S-23291 Arlv			A3				
MPPR SWEDEN			17.11.01				
Tel: +46 40 437075			Ma				
Fax: +46 40 432944			Kurt				
Datum	Kändingar	Title:	Ledningsdrögning standard				
		GB:	Yaskawa Omformare				
		D:	Inverter, standard				
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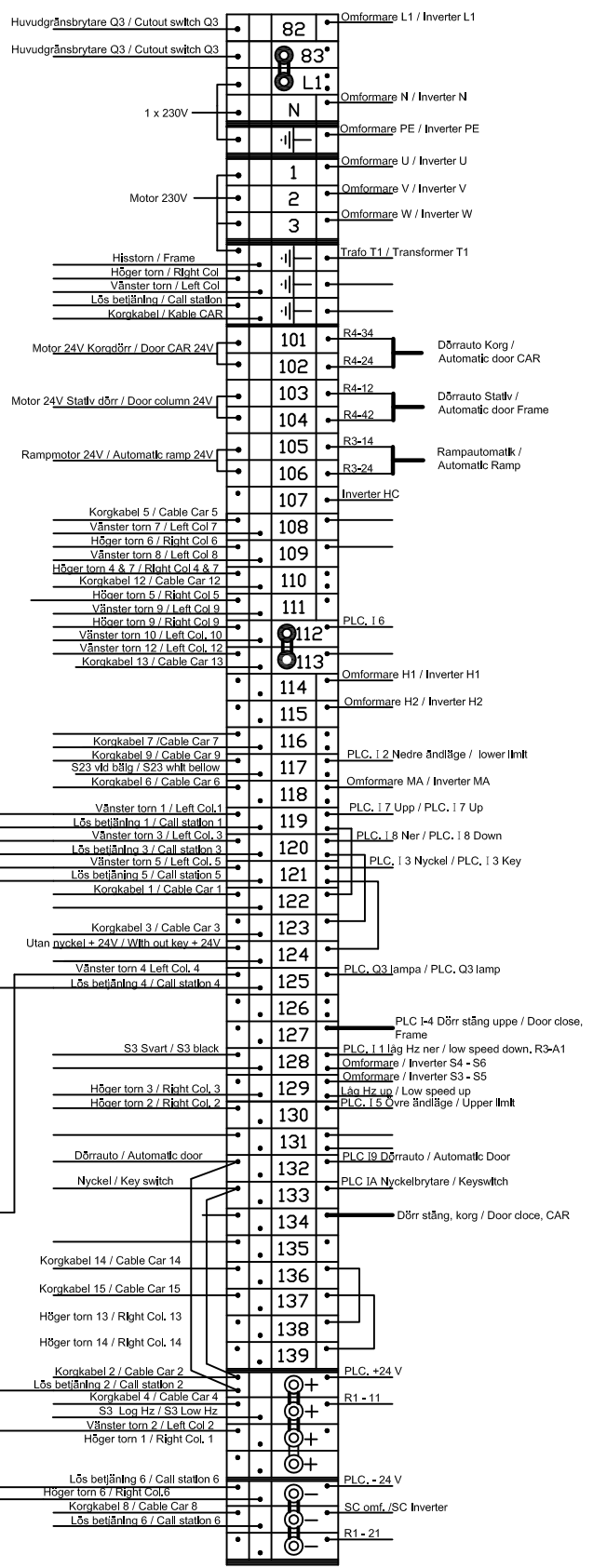
Lös betjäning
Callstation



Lös betjäning vänster torn
Call station Left Column



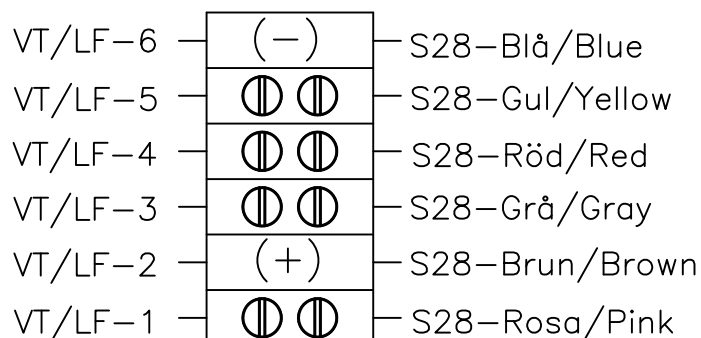
Kopplingsbox vänster torn
Junction box Left Column



Antal	Varunummer	Namn	Material	Norm	Ref.
Mått utan toleranser enligt SMS 715 medel			<div style="display: flex; align-items: center;"> <div style="font-size: 48px; margin-right: 10px;">MPR</div> <div> <p>ÅVÄGEN 4</p> <p>S-232 91 ARLÖV</p> <p>SWEDEN</p> <p>TEL. +46 40 437 075</p> <p>FAX. +46 40 432 944</p> </div> </div>	Skala	
Datum	Revision			Ritn.	17.05.19
Titel:			Ers. för:		
Type:			Ritn. nr:		
Strategos STD med nyckel.			3051-1		
Strategos STD with key			Ers. av:		
Denna ritning får inte kopieras eller överlämnas till obehöriga utan vårt medgivande!					

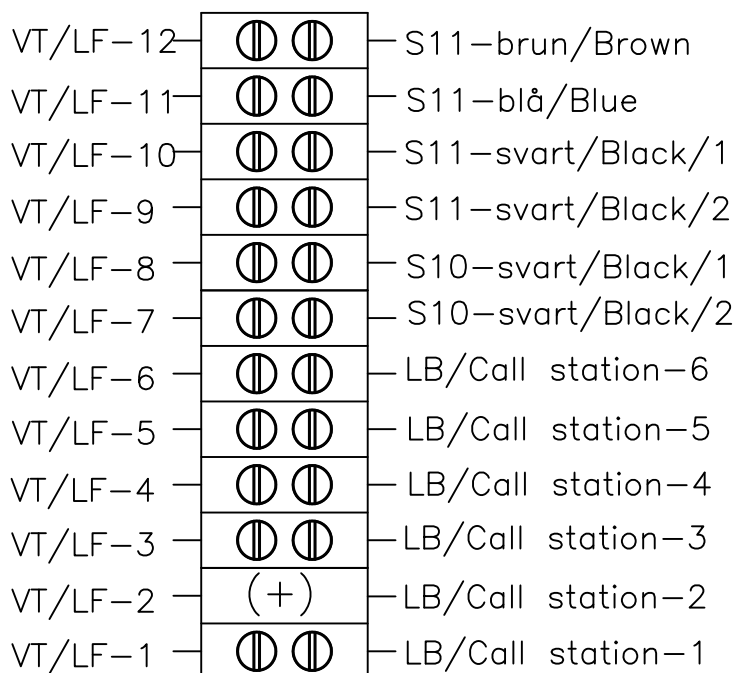
Left Frame automatic door

S28 Magnetic switch
Door hinging right side)



Left frame

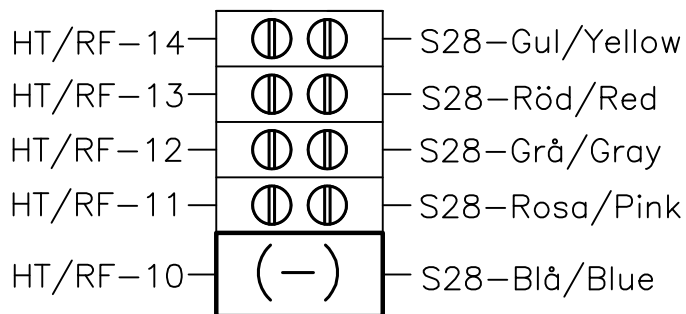
STD



Antal	Varunummer	Namn	Material	Norm	Ref.
Mått utan toleranser enligt SMS 715 medel		<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">MPR</div> AVÄGEN 4 S-232 91 ARLÖV SWEDEN TEL. +46 40 437 075 FAX. +46 40 432 944	Skala		
Datum	Ändringar		Datum	Sign.	
			Ritn. 16.09.22	Ma/Kurt	
			Kontr.		
			Ers. för:		
		Ers. av:			
		Ritn. nr: 2653			
		Type: Automatic door + Std.			
Denna ritning får inte kopieras eller överlämnas till obehöriga utan vårt medgivande!					

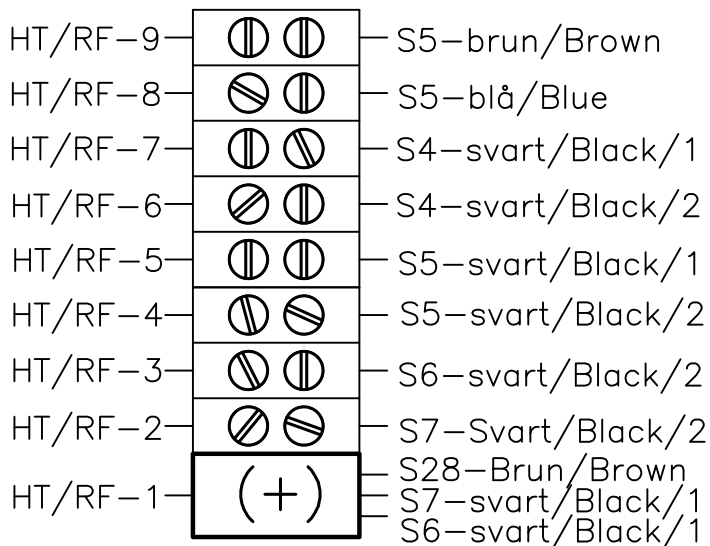
Frame right side automatic door

S28 Magnetic switch
(Door hinging left side)



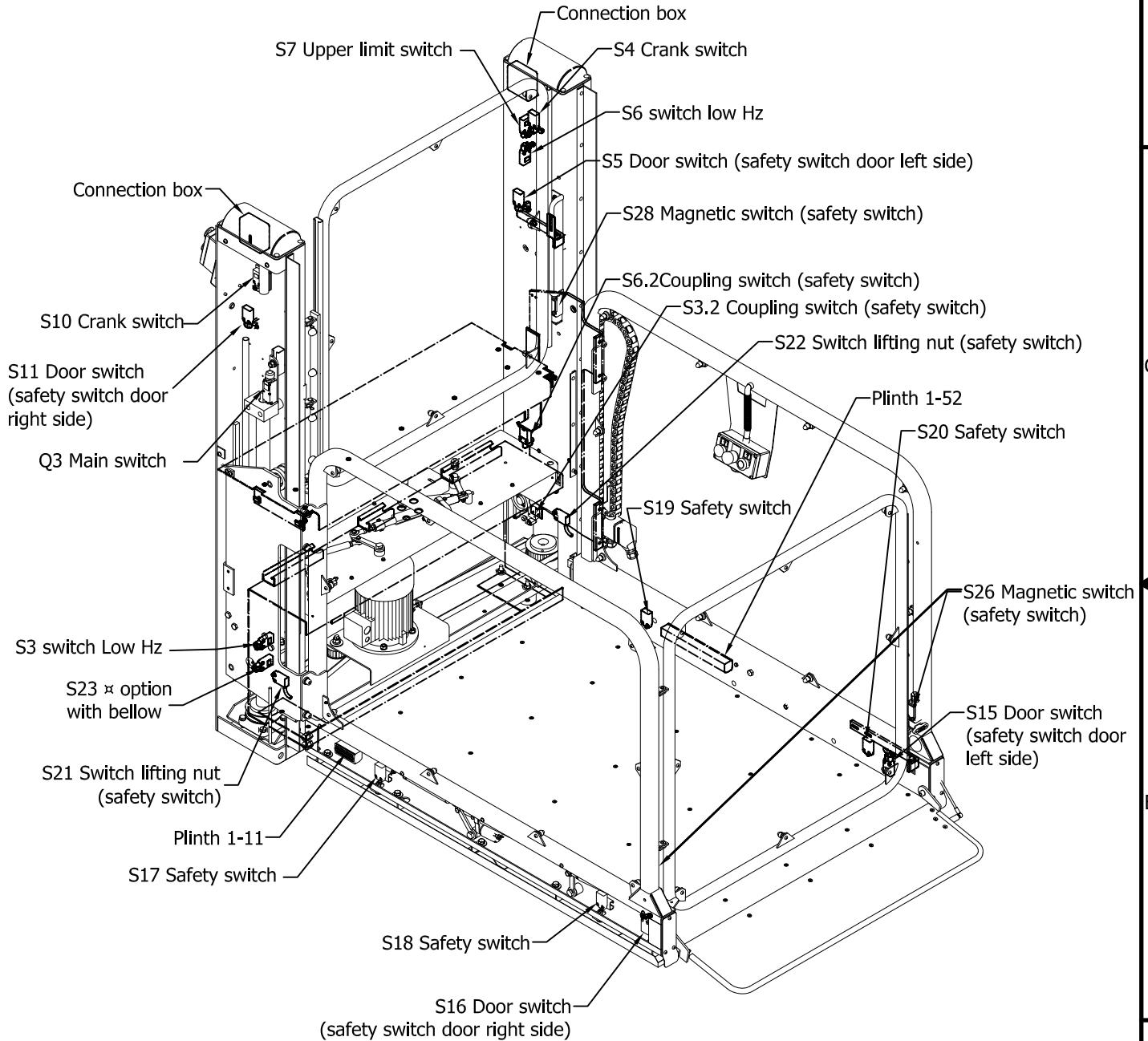
Right Frame

STD



Antal	Varunummer	Namn	Material	Norm	Ref.
Mått utan toleranser enligt SMS 715 medel		<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">MPR</div> AVÄGEN 4 S-232 91 ARLÖV SWEDEN TEL. +46 40 437 075 FAX. +46 40 432 944	Skala		
Datum	Ändringar		Datum	Sign.	
			Ritn.	16.09.22 Ma/Kurt	
			Kontr.		
			Ers. för:		
		Titel: Wiring Diagram Frame, right side		Ritn. nr: 2654	
		Type: Automatic door + Std		Ers. av:	
Denna ritning får inte kopieras eller överlämnas till obehöriga utan vårt medgivande!					

VALID FROM: 2016.10.22 -->

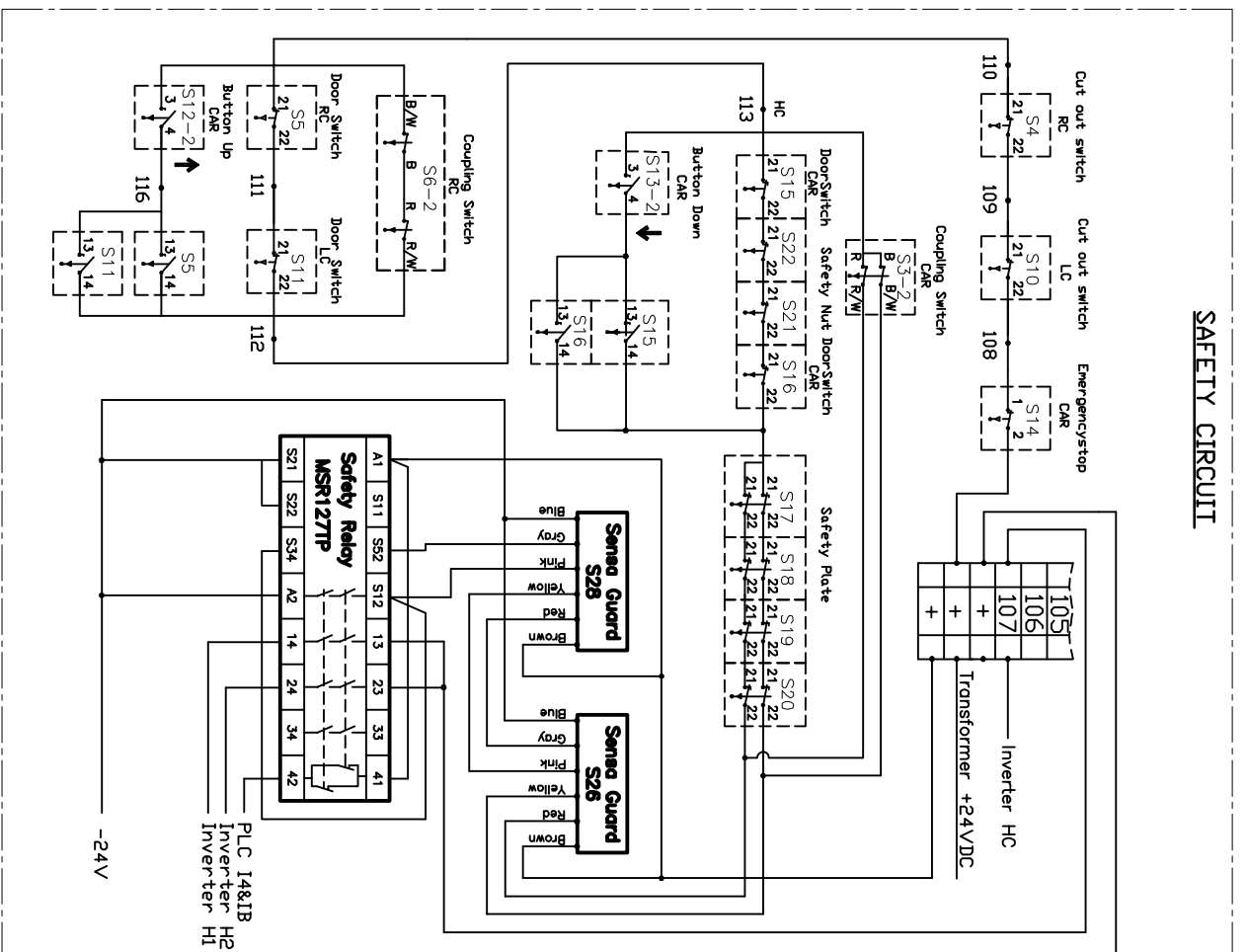


Note on Hbb alarms! check these switches

S3.2 / S4 / S5 / S6.2 / S10 / S11 / S15 / S16 /
S17 / S18 / S19 / S20 / S21 / S22 / S26 / S28

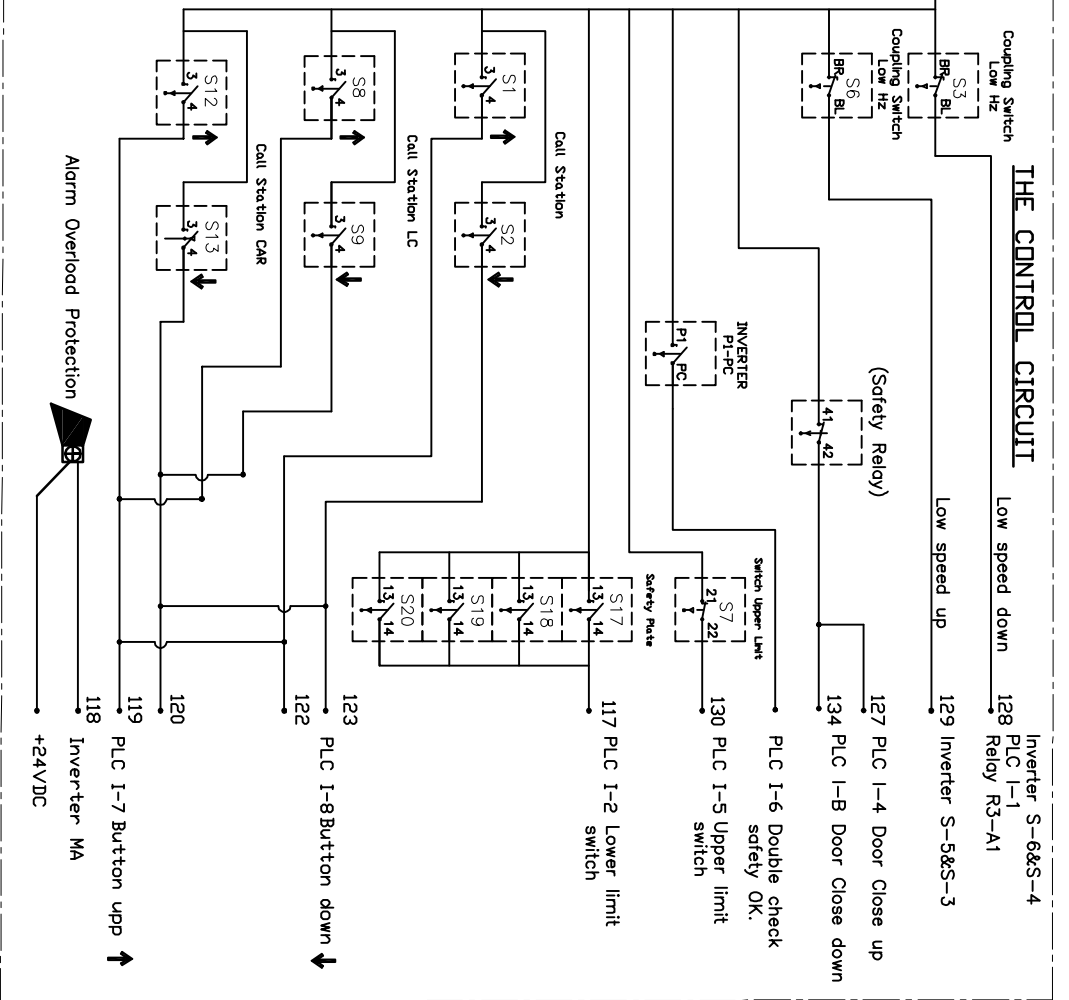
Designed by Markku	Checked by	Approved by 17.09.27	Date	Date 2016-09-22
MPR LIFTS AB		All Switches, Strategos automatic door		
		3040 Magnetic Switch	Edition 2	Sheet 1 / 1

SAFETY CIRCUIT



CAR = Carriage
RC = Right Column
LC = Left Column
KD = Carriage Cable

THE CONTROL CIRCUIT

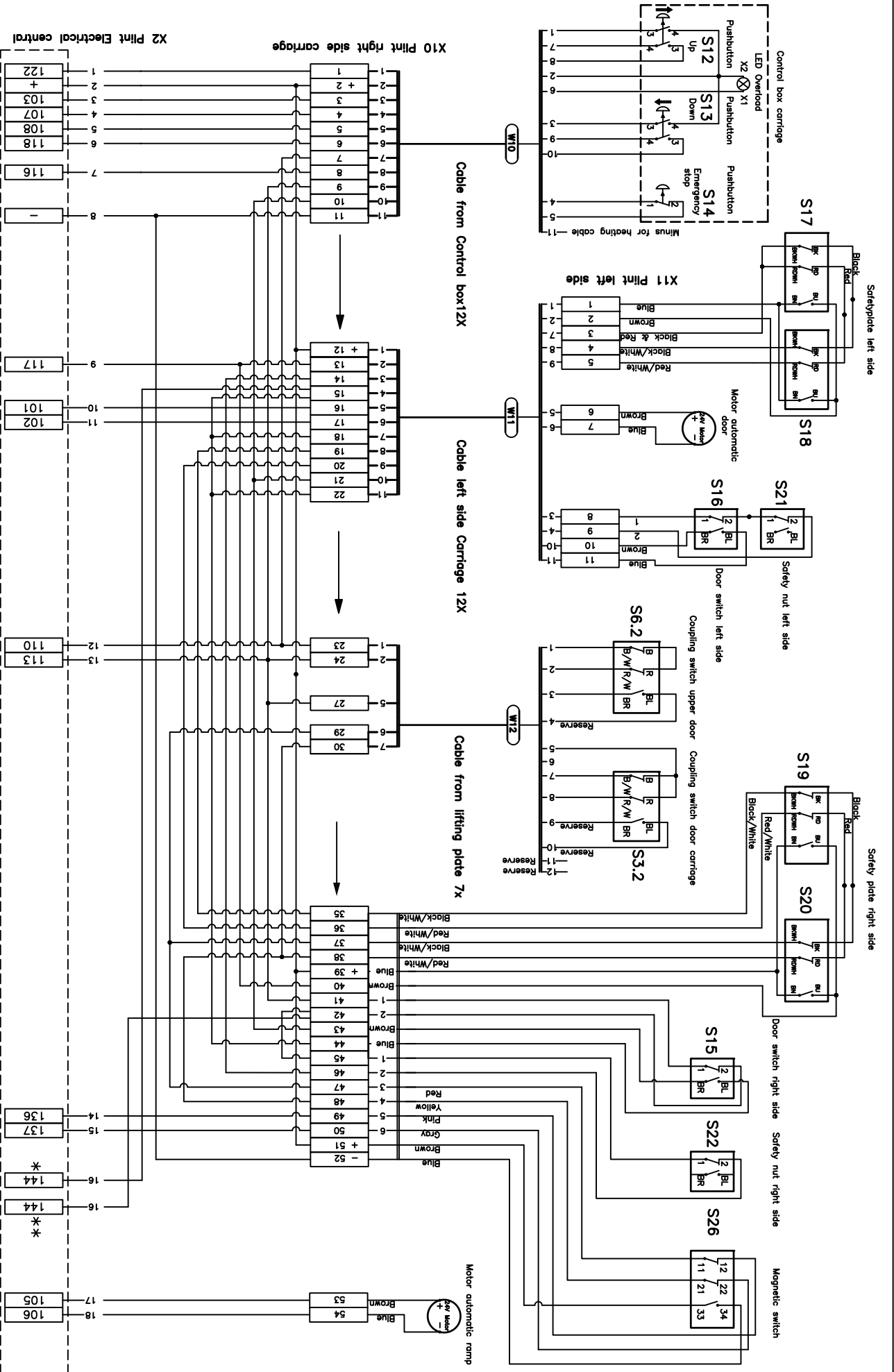


Artid	Vorunnummer	Namn	Lythböd	Mörtal	Norm	Ref
		Åvöppn 4	Wört utön teleömnör anslöt SWS 715 medöl			
		S-23291 Arlvö	1/50 0ö- 3-1 6-1 30-1 121-1 401- 1001-2001-			
		MöPPöR SWöDEN	Z/26ö 3- 2/6ö 3- 1/5- 1/10- 1/20- 1/40- 1/100- 200-400-			
		Töl: +46 40 437075	N 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS			
		Föx: +46 40 432944	C 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS			
Datum	Äöndringör	Titel:	V 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS 1ö0öS			

Strategos
Wiring Diagram
automatic door with
Magnetic switch

Utögöva 6 16.0ö8.17 magnet sensor dörrör

Revision by:
Ritönög nr:
2640-6



X2 Pint Electrical central

X10 Pint right side carriage

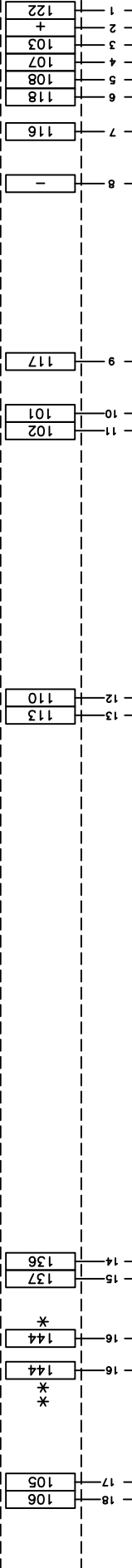
X11 Pint left side

Cable from Control box 12X

Cable left side Carriage 12X

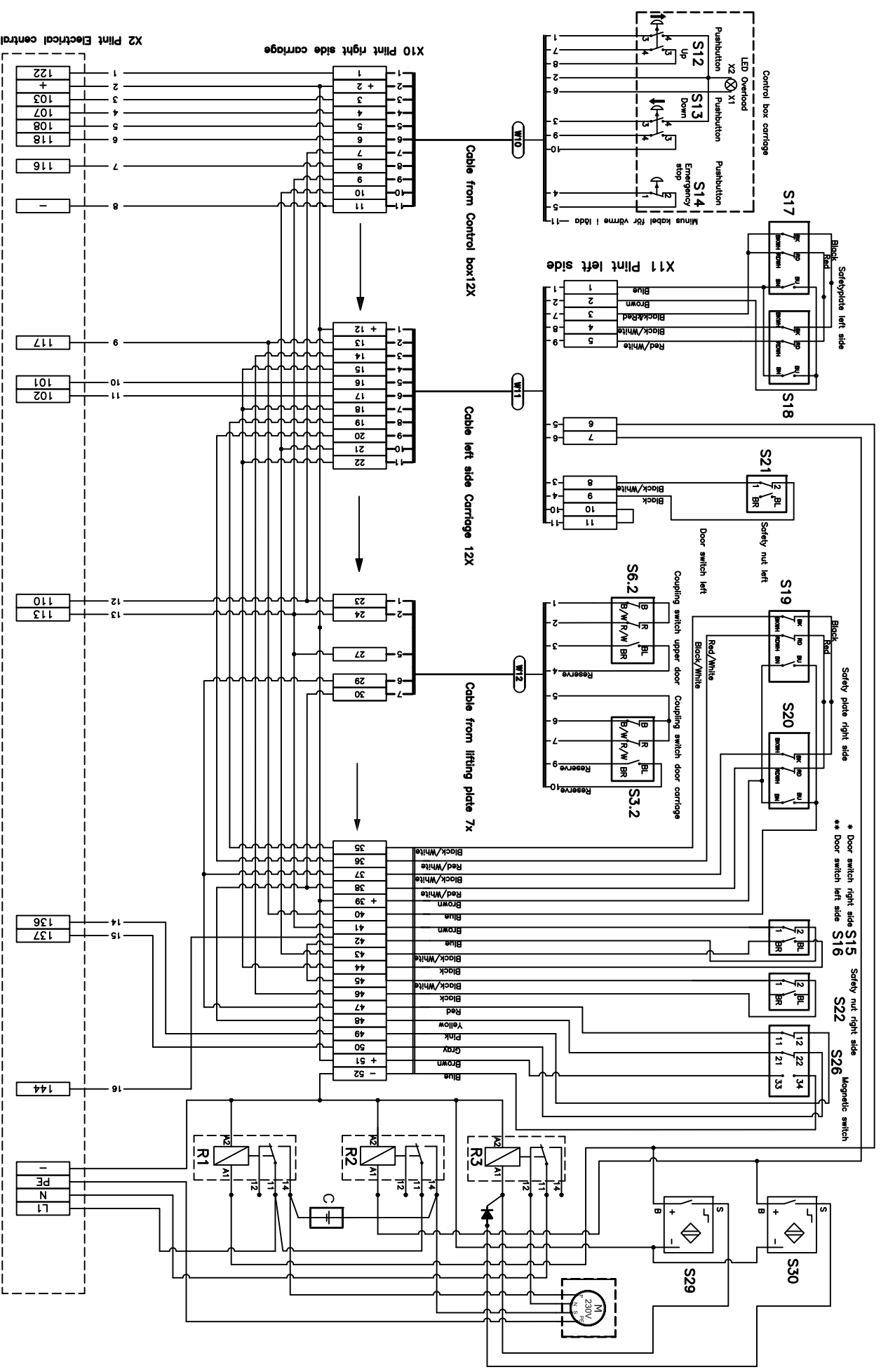
Cable from lifting plate 7x

Motor automatic ramp



* With light hinged door connect carriage cable nr 16.
 ** With left hinged door connect carriage cable nr 16.

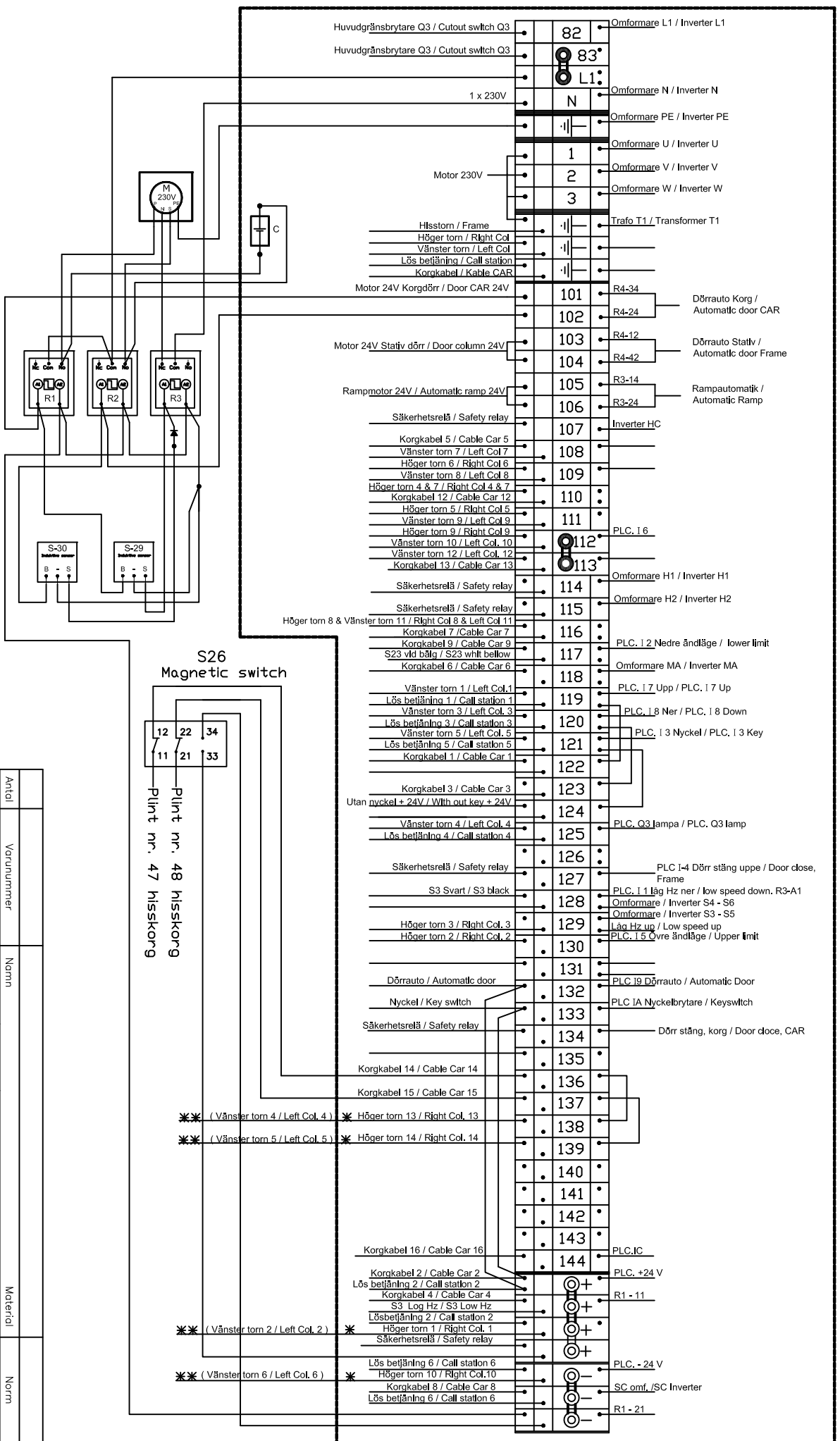
<p>MPP R Avdägen 4 S-23291 Arlövs SWEDEN Tel. +46 40 437075 Fax +46 40 432944</p>		<p>Lyfthöjdd: ISO 0,5- 3,1- 6,1- 30,1- 121- 401- 1001-2001- 2768 3 6 30 120 400 1000 2000 4000 f ±0,05 ±0,05 ±0,1 ±0,15 ±0,2 ±0,3 ±0,5 m ±0,1 ±0,1 ±0,2 ±0,3 ±0,5 ±0,8 ±1,2 ±2 v ±0,2 ±0,3 ±0,5 ±0,8 ±1,2 ±2 ±3 ±4 ±8</p>		<p>Scale A3 Datum Sign. Draw 15.11.24 Ma Check</p>	
<p>Datum: 17.06.26 Utgåva: 4 tillbakakörning Utgåva: 5 rampautomatik</p>		<p>Ändringar: Datum: 17.06.26 Utgåva: 4 tillbakakörning Utgåva: 5 rampautomatik</p>		<p>Title: Carriage With Automatic door Reverse run</p>	
<p>Revision by: Replacing: Rifting n.r.: 2651-5</p>					



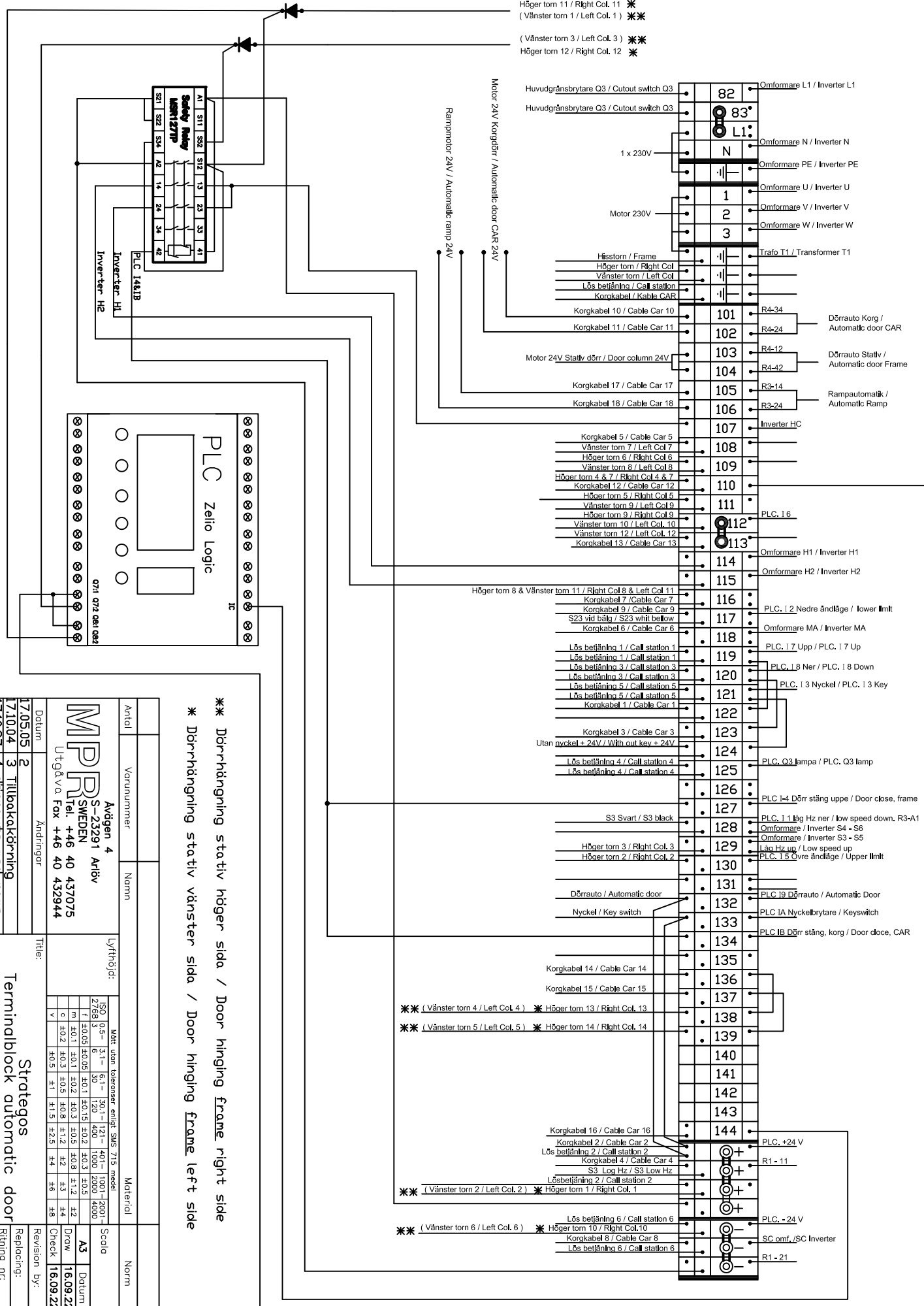
* With right hinged door (S15) connect carriage cable nr 16.
 ** With left hinged door (S16) connect carriage cable nr 16.

<p>Avdägen 4 Arlööv S-23291 SWEDEN Tel. +46 40 437075 Fax +46 40 432944</p>		Lytthöjd:	
		Mått utan toleranser enligt SMS 715 medel	
Datum: 16.09.21		Rev. 2	
Ändringar		Rev. 3	
Titel:		Strategos	
GB:		Wiring Diagram	
D:		Carriage with Side Access	
Revision by:		Revision:	
Check		Ritning nr:	
A3		2659-3	
ISO 0-5		Scalio	
2768 3		A3	
f ±0.05 ±0.05		Datum	
m ±0.1 ±0.1		Sign.	
c ±0.2 ±0.3		Draw	
v ±0.5 ±1		Check	
		16.04.06	
		hd/kurt	

** Dörrhängning stativ höger sida / Door hinging frame right side
 ** Dörrhängning stativ vänster sida / Door hinging frame left side



Artid	Varunummer	Namn	Material	Norm	Ref.																																																
Avdigen 4 S-23291 Arliv MPP SWEDEN Tel. +46 40 437075 Fax +46 40 432944			Mått utan toleranser enligt SWS 715 medel																																																		
Lytthöjd:			<table border="1"> <tr> <td>ISO 0-5</td> <td>3.1</td> <td>6.1</td> <td>30.1</td> <td>121</td> <td>401</td> <td>1001</td> <td>2001</td> </tr> <tr> <td>Z7863</td> <td>6</td> <td>30</td> <td>120</td> <td>400</td> <td>1000</td> <td>2000</td> <td>4000</td> </tr> <tr> <td>f</td> <td>+0.05</td> <td>+0.05</td> <td>+0.1</td> <td>+0.15</td> <td>+0.2</td> <td>+0.3</td> <td>+0.5</td> </tr> <tr> <td>m</td> <td>+0.1</td> <td>+0.1</td> <td>+0.2</td> <td>+0.3</td> <td>+0.5</td> <td>+0.8</td> <td>+1.2</td> </tr> <tr> <td>c</td> <td>+0.2</td> <td>+0.3</td> <td>+0.5</td> <td>+0.8</td> <td>+1.2</td> <td>+2</td> <td>+3</td> </tr> <tr> <td>v</td> <td>+0.5</td> <td>+1</td> <td>+1.5</td> <td>+2.5</td> <td>+4</td> <td>+6</td> <td>+8</td> </tr> </table>			ISO 0-5	3.1	6.1	30.1	121	401	1001	2001	Z7863	6	30	120	400	1000	2000	4000	f	+0.05	+0.05	+0.1	+0.15	+0.2	+0.3	+0.5	m	+0.1	+0.1	+0.2	+0.3	+0.5	+0.8	+1.2	c	+0.2	+0.3	+0.5	+0.8	+1.2	+2	+3	v	+0.5	+1	+1.5	+2.5	+4	+6	+8
ISO 0-5	3.1	6.1	30.1	121	401	1001	2001																																														
Z7863	6	30	120	400	1000	2000	4000																																														
f	+0.05	+0.05	+0.1	+0.15	+0.2	+0.3	+0.5																																														
m	+0.1	+0.1	+0.2	+0.3	+0.5	+0.8	+1.2																																														
c	+0.2	+0.3	+0.5	+0.8	+1.2	+2	+3																																														
v	+0.5	+1	+1.5	+2.5	+4	+6	+8																																														
Titel:			Strategos																																																		
Datum:			Terminalblock automatic door																																																		
Revision:			Side Access Carriage																																																		
Magnetbrytare S26			Magnetic switch																																																		
Ändringar			Revision by:																																																		
D:			Replicering:																																																		
			Ritning nr:																																																		
			3049-1																																																		

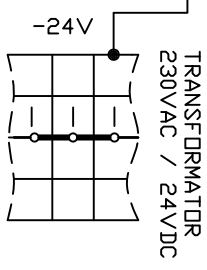
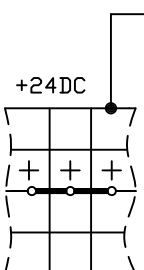
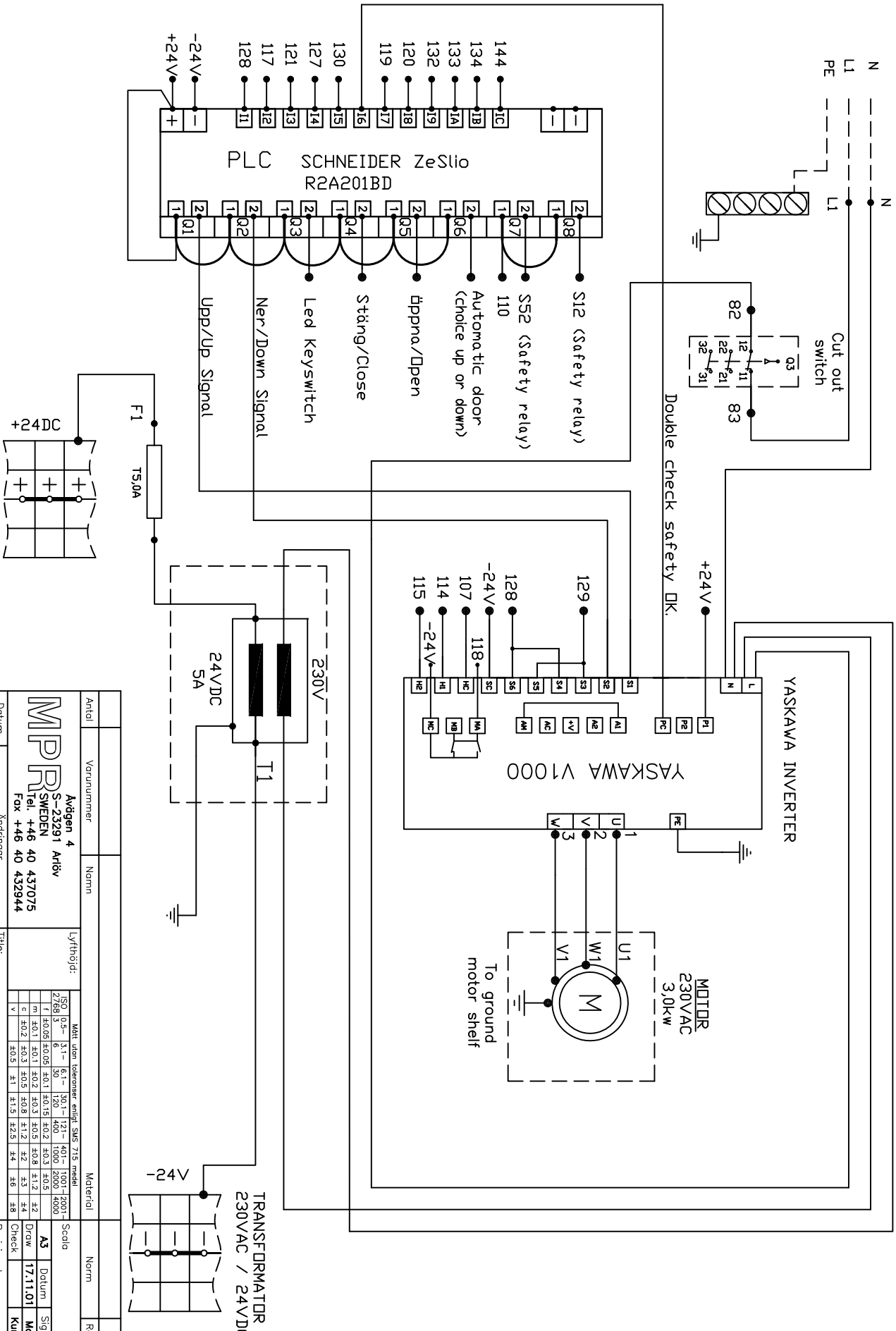


Höger tom 11 / Right Col. 11 *
 (Vänster tom 1 / Left Col. 1) **
 (Vänster tom 3 / Left Col. 3) **
 Höger tom 12 / Right Col. 12 *

** Dörrhängning stativ höger sida / Door hinging frame right side
 * Dörrhängning stativ vänster sida / Door hinging frame left side

Artid	Varunummer	Avdigen 4	
		S-23291	ArtIdv
MPPR SWEDEN			
Utgåva Fax +46 40 437075			
Tel. +46 40 432944			
Datum:	2	Ändringar	
17.05.05	3	Tillbakakörning	
17.10.04	4	dörrauto med ramp	
17.10.27			
Titel: Strategos			
Terminalblock automatic door			
Magnetic switch			
Revision by: 2657-4			
Replacings: Rättning n.r.			
Check: 16.09.22 Kurt			
Draw: 16.09.22 Mo/Kurt			
Sign: A3			
Scale: 1:1			
Material: Matt utan toleranser enligt SMS 715 medel			
Norm: A3			
Ref: A3			

Huvudgränsbrytare Q3 / Cutout switch Q3	82	Omformare L1 / Inverter L1
Huvudgränsbrytare Q3 / Cutout switch Q3	83	Omformare N / Inverter N
1 x 230V	N	Omformare PE / Inverter PE
Motor 230V	1	Omformare U / Inverter U
	2	Omformare V / Inverter V
	3	Omformare W / Inverter W
		Trafo T1 / Transformer T1
Höster tom / Frame		
Höster tom / Right Col		
Vänster tom / Left Col		
Lös betänning / Call station		
Korgkabel / Cable CAR		
Korgkabel 10 / Cable Car 10	101	R4-34 Dörrauto Korg / Automatic door CAR
Korgkabel 11 / Cable Car 11	102	R4-24
Motor 24V Stativ dörr / Door column 24V	103	R4-12 Dörrauto Stativ / Automatic door Frame
	104	R4-42
Korgkabel 17 / Cable Car 17	105	R3-14 Rampautomatik / Automatic Ramp
Korgkabel 18 / Cable Car 18	106	R3-24
	107	Inverter HC
Korgkabel 5 / Cable Car 5	108	
Vänster tom 7 / Left Col 7	109	
Höster tom 6 / Right Col 6	110	
Vänster tom 8 / Left Col 8	111	
Höster tom 4 & 7 / Right Col 4 & 7	112	PLC. I 6
Korgkabel 12 / Cable Car 12	113	
Höster tom 5 / Right Col 5	114	Omformare H1 / Inverter H1
Vänster tom 9 / Left Col 9	115	Omformare H2 / Inverter H2
Höster tom 9 / Right Col 9	116	
Vänster tom 10 / Left Col 10	117	PLC. I 2 Nedre ändläge / lower limit
Vänster tom 12 / Left Col 12	118	Omformare MA / Inverter MA
Korgkabel 13 / Cable Car 13	119	PLC. I 7 Upp / PLC. I 7 Up
	120	PLC. I 8 Ner / PLC. I 8 Down
	121	PLC. I 3 Nyckel / PLC. I 3 Key
	122	
Korgkabel 3 / Cable Car 3	123	
Utän nyckel + 24V / With out key + 24V	124	PLC. Q3 lampa / PLC. Q3 lamp
Lös betänning 4 / Call station 4	125	
Lös betänning 4 / Call station 4	126	PLC. I-4 Dörr stäng uppe / Door close, frame
S3 Svart / S3 black	127	PLC. I 1 låg Hz ner / low speed down, R3-A1 Omformare / Inverter S4 - S6
Höster tom 3 / Right Col. 3	128	Omformare / Inverter S3 - S5
Höster tom 2 / Right Col. 2	129	Låg Hz up / Low speed up
	130	PLC. I 5 Övre ändläge / Upper limit
Dörrauto / Automatic door	131	
Nyckel / Key switch	132	PLC I9 Dörrauto / Automatic Door
	133	PLC IA Nyckelbrytare / Keyswitch
	134	PLC IB Dörr stäng, korg / Door close, CAR
Korgkabel 14 / Cable Car 14	135	
Korgkabel 15 / Cable Car 15	136	
(Vänster tom 4 / Left Col. 4) * Höger tom 13 / Right Col. 13	137	
(Vänster tom 5 / Left Col. 5) * Höger tom 14 / Right Col. 14	138	
	139	
	140	
	141	
	142	
	143	
Korgkabel 16 / Cable Car 16	144	PLC. +24 V
Korgkabel 2 / Cable Car 2		R1 - 11
Lös betänning 2 / Call station 2		
Korgkabel 4 / Cable Car 4		
S3 Log Hz / S3 Low Hz		
Lös betänning 2 / Call station 2		
(Vänster tom 2 / Left Col. 2) * Höger tom 1 / Right Col. 1		
Lös betänning 6 / Call station 6		PLC. -24 V
Höster tom 10 / Right Col. 10		SC omf. JSC Inverter
Korgkabel 8 / Cable Car 8		
Lös betänning 6 / Call station 6		R1 - 21

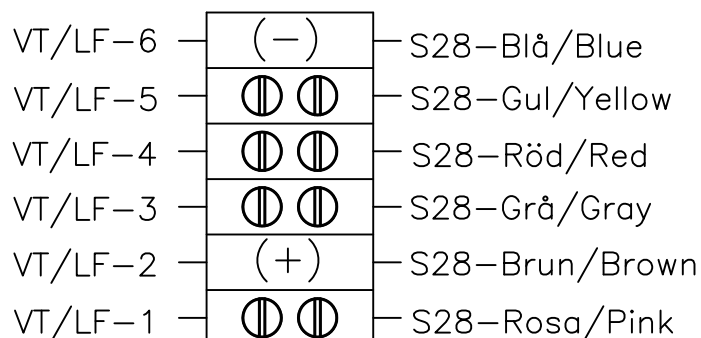


Artid	Vorrunnummer	Namn	Material	Norm	Ref																																												
Avdelning 4 MPPR S-23291 Arlv SWEDEN Tel: +46 40 437075 Fax +46 40 432944																																																	
Lyfthög:																																																	
Mät utan tolerans enligt SMS 715 medel																																																	
<table border="1"> <tr> <td>Z/ISO</td> <td>g5-</td> <td>3-1</td> <td>6-1</td> <td>30-1</td> <td>12-1</td> <td>40-1</td> <td>100-1</td> <td>200-1</td> </tr> <tr> <td>2/ISO</td> <td>h08</td> <td>h06</td> <td>h05</td> <td>h01</td> <td>h15</td> <td>h02</td> <td>h08</td> <td>h04</td> </tr> <tr> <td>m</td> <td>f01</td> <td>f01</td> <td>f02</td> <td>f03</td> <td>f05</td> <td>f02</td> <td>f12</td> <td>f2</td> </tr> <tr> <td>c</td> <td>k02</td> <td>k03</td> <td>k05</td> <td>k08</td> <td>k12</td> <td>k2</td> <td>k3</td> <td>k4</td> </tr> <tr> <td>v</td> <td>v</td> <td>v</td> <td>v</td> <td>v</td> <td>v</td> <td>v</td> <td>v</td> <td>v</td> </tr> </table>			Z/ISO	g5-	3-1	6-1	30-1	12-1	40-1	100-1	200-1	2/ISO	h08	h06	h05	h01	h15	h02	h08	h04	m	f01	f01	f02	f03	f05	f02	f12	f2	c	k02	k03	k05	k08	k12	k2	k3	k4	v	v	v	v	v	v	v	v	v		
Z/ISO	g5-	3-1	6-1	30-1	12-1	40-1	100-1	200-1																																									
2/ISO	h08	h06	h05	h01	h15	h02	h08	h04																																									
m	f01	f01	f02	f03	f05	f02	f12	f2																																									
c	k02	k03	k05	k08	k12	k2	k3	k4																																									
v	v	v	v	v	v	v	v	v																																									
Scold																																																	
A3			Datum	Sign.																																													
Draw			17.11.01	Ma																																													
Check				Kurt																																													
Revision by:																																																	
Replacing:																																																	
Ritning nr:																																																	
2663-1																																																	

Valid from: 16.10.22 - -->

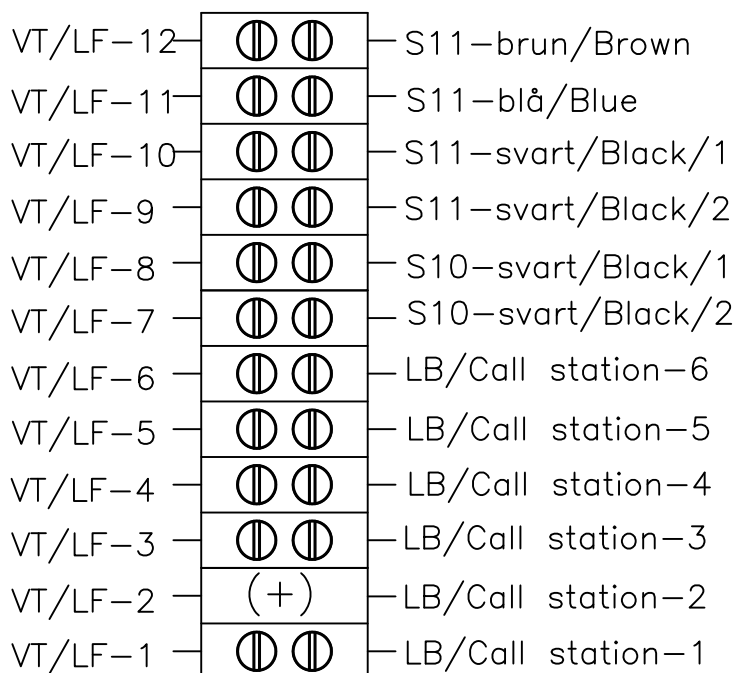
Left Frame automatic door

S28 Magnetic switch
Door hinging right side)



Left frame

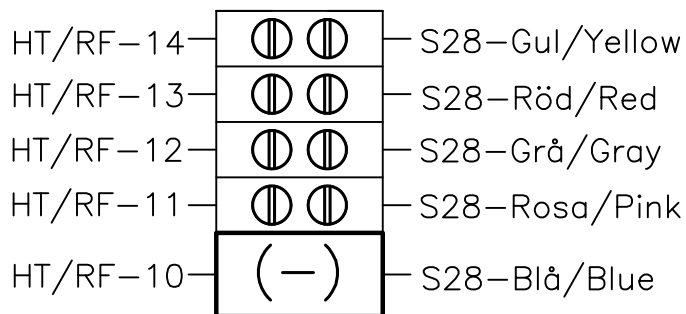
STD



Antal	Varunummer	Namn	Material	Norm	Ref.
Mått utan toleranser enligt SMS 715 medel		<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">MPR</div> ÅVÄGEN 4 S-232 91 ARLÖV SWEDEN TEL. +46 40 437 075 FAX. +46 40 432 944	Skala		
Datum	Ändringar		Datum		Sign.
			Ritn.	16.09.22	Ma/Kurt
			Kontr.		
			Ers. för:		
		Titel: Wiring Diagram Frame, left side		Ritn. nr: 2653	
		Type: Automatic door + Std.		Ers. av:	
Denna ritning får inte kopieras eller överlämnas till obehöriga utan vårt medgivande!					

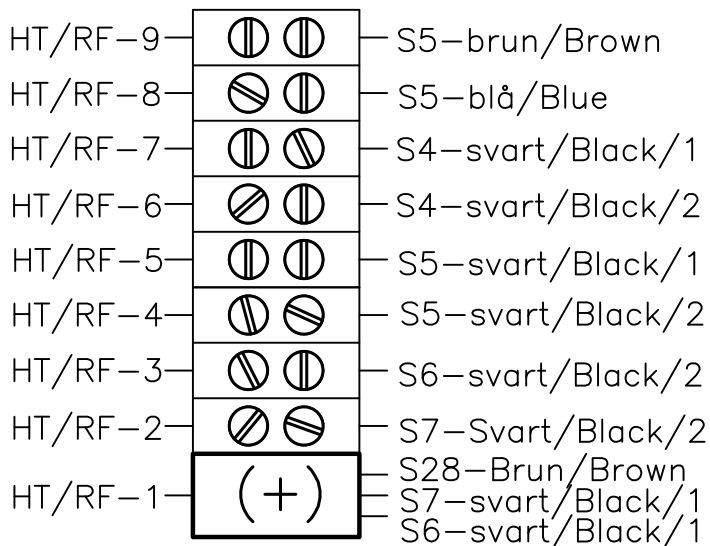
Frame right side automatic door

S28 Magnetic switch
(Door hinging left side)



Right Frame

STD



Antal	Varunummer	Namn	Material	Norm	Ref.
Mått utan toleranser enligt SMS 715 medel			<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">MPR</div> AVÄGEN 4 S-232 91 ARLÖV SWEDEN TEL. +46 40 437 075 FAX. +46 40 432 944	Skala	
Datum	Ändringar				
Titel:			Wiring Diagram Frame, right side		
Type:			Automatic door + Std		
			Ers. för:		
			Ritn. nr: 2654		
			Ers. av:		

Denna ritning får inte kopieras eller överlämnas till obehöriga utan vårt medgivande!

ANNUAL SAFETY INSPECTION

Description of function of the switches

Check of all safety switches in the lifts safety system. These switches are forced breaking with 2 separate channels, switch S-3.2, S-6.2, S17, S18, S19, S20, (S26, S28 are magnetic switches for automatic doors)

Check of switches S-3.2 S-6.2, S-17, S-18, S-19, S20 and S-26 has to be done in the terminal block on the right side of the carriage.

Turn of the power, dismantle the engine cover and the side plates of the carriage.

Turn on the power again! The carriage must be in the lower position. Check the bypass switch S-3.2. Activate switch S-3.2, the frequency inverter should warn Hbb = Safety circuit is Ok. If inverter warns Hbbf, 1 channel is out of order. Check the cable connections it is ok. If not, change the switch.

Run the lift half-way for check of switches S-17, S-18, S-19, S-20 and S-26, S-6.2 (takes place on right side of the carriage)

Check switches S-17, S-18 (safety plate left side)

Activate switches S17 and S18, inverter must warn Hbb. Switches S17 and S18 is ok.

(At Hbbf alarm, check as above)

Check of switch S-19, S-20 (safety plate right side)

Activate switches S19 and S20, inverter must warn Hbb. Switches S19 and S20 is ok.

(At Hbbf alarm, check as above)

Check of magnetic switch S-26 (carriage automatic door)

Emergency opening of carriage door! Inverter should warns Hbb. Magnetic switch S26 is ok.

(At Hbb alarm check as above)



Control of bypass switch S-6.2

Drive the lift to top position.

Activate switch S-6.2, inverter must warn Hbb = bypass switch S-6.2 is ok.

(At Hbb alarm check as above)

Control of magnetic switch S-28

Switch S-28 is connected to safety relay in the electrical center in the engine room.

Drive down the elevator half way and emergency open the upper door.

Inverter must warn Hbb, magnetic switch S-28 is ok.

(At Hbbf alarm check as above)

NOTE!

If one-channel fault (Hbbf on the display of the inverter) is detected on any of the safety switches, the defect switch must be replaced with a new.

Now all safety switches are checked and the safety circuit is OK.

Placing of the safety switches:

Please look at the drawings 3040-2 and 3042-2

Annual service inspection

1. Check the fastening of the lifting frame to the wall/ceiling. Make sure that the lifting device don't lean forward, it must be vertical or leaning a few mm backwards.
2. The doors and functions of the door locks.
3. Function of the safety plate (space under the carriage must be clean and flat)
4. Cut out the current and dismantle the engine cover. Dismantle the cover plates on both lifting devices and the side plates on the carriage.
5. Lubricate the hinges of the doors with a few drops of oil. Lubricate also the locking bar. Also check the spring to the locking mechanism of the doors.
6. Check the wear of the lifting nuts. Distance between lifting nuts and safety nuts is stamped on the lifting nut. If the distance is reduced with more than 1,5 mm, both lifting nut and safety nut has to be changed. At installation of new set nuts, the lifting nut has to be stamped with new distance between lifting nut and safety nut.
7. Lubricate the lower bearing of the spindles and lifting nuts.

Every lifting nut has a greasing nipple, available through a hole in the lifting bracket. Lubricate while the carriage is run up/down so that the spindles will be covered with as even layer of grease. Lubricate also the lower bearings of the spindles from the greasing nipples in the engine compartment.

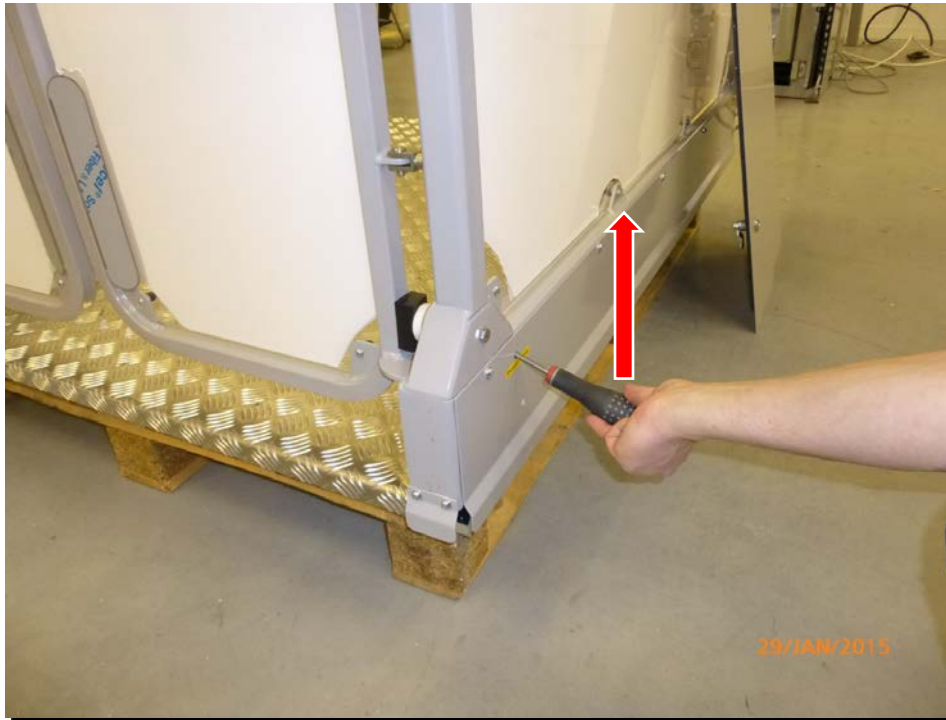
FOR WARRANTY COVERAGE ALWAYS USE THE GREASE SUPERLUBE.

8. Check the drive belt and all pulleys.
9. Check all wheels on the lifting brackets.
10. Check the function of all switches.
11. Annual security check has to be done according to enclosed instruction
12. Reassemble the cover plates to lifting device, carriage sides and engine compartment
13. Turn on the power and test run. Check all functions and settings of the lift.
14. If the lift is used very frequently, the lift has to be lubricated more often that at the annual inspection.



Emergency Opening of Strategos Superior

Strategos Superior Carriage



Side Access

NB! Switch off the power before emergency opening/

Strategos Superior lifting frame



Check of lifting nut switch

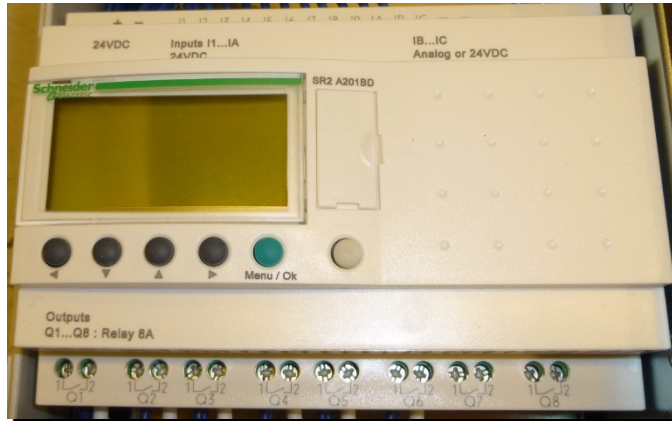
Run the lift up approximate 70 mm so that the doors will be locked.
Check the switches according to the picture.

When the switch is activated the inverter should warn Hbb.



MPR Strategos Superior

Time adjustment automatic doors

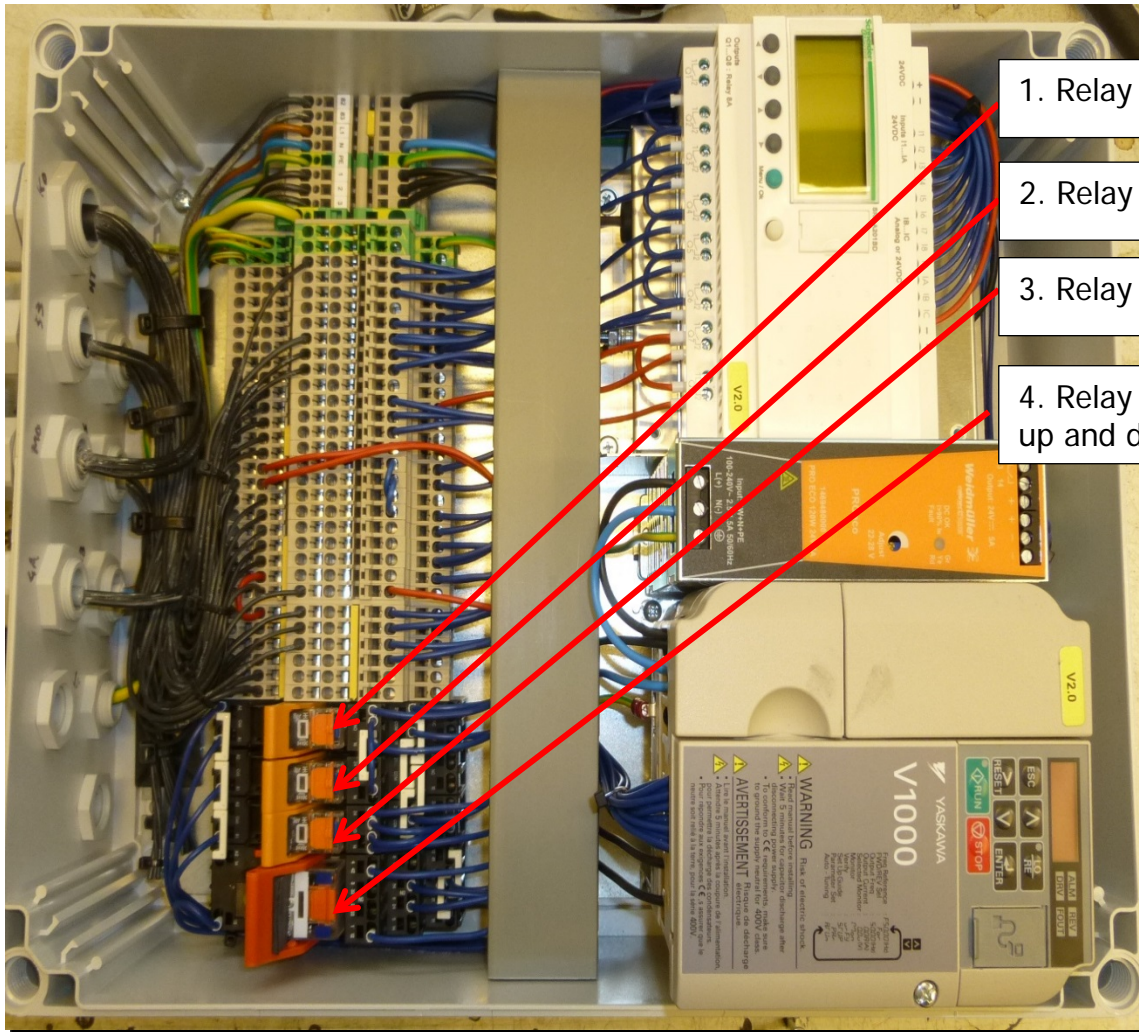


PARAMETER **TT6** = **Door Frame**

PARAMETER **TT7** = **Door Carriage**

1. Press **menu** button
2. Press the **up arrow** until **parameter** flashes push **menu** button, **T1** is displayed, press the **up arrow** to parameter **TT6** or **TT7** (35 sec. shown = set time).
3. Press **right arrow** value flashes, adjust the value with the **up** or **down arrow**.
4. Press once on the **right arrow**, the value stops flashing.
5. Press the **menu** button once PLC asking about the value to be stored, press again the **menu** button and the value saved.
6. Press again the **menu** button to get to the drive position.
7. End.

Relays Strategos Superior



1. Relay door opening

2. Relay door close

3. Relay motor ramp

4. Relay door position up and down

Extrautrustning för Strategos B

1. Knappsats med nyckelbrytare (ej i hisskorg)
2. Joystick i stället för tryckknappar
3. Radiostyrning + 1 sändare
4. Extrasändare för radiostyrning
5. Väggfäste för sändare
6. Kodlås för lift
7. Blind skrift
8. Vädskydd för manöverboxar
9. Stolpe för yttre manöverbox
10. Nödtelefon (Safeline 3000 fast linje)
11. Nödtelefon (Safeline 3000 GSM)
12. Alarm (i hisskorg)
13. UPS batteribackup
14. Sidopåkörning vänster
15. Sidopåkörning höger
16. Förlängd korg +200mm
17. Kortad korg -100mm
18. Kortad korg -200mm
19. Kortad korg -300mm
20. Rampautomatik (gäller ej sidopåkörning)
21. Dörrkoordinator (potentialfri)
22. Matta valfri färg (korggolv)
23. Pulverlackering
24. Pulverlackering på galvanisering
25. Superlube smörjfett