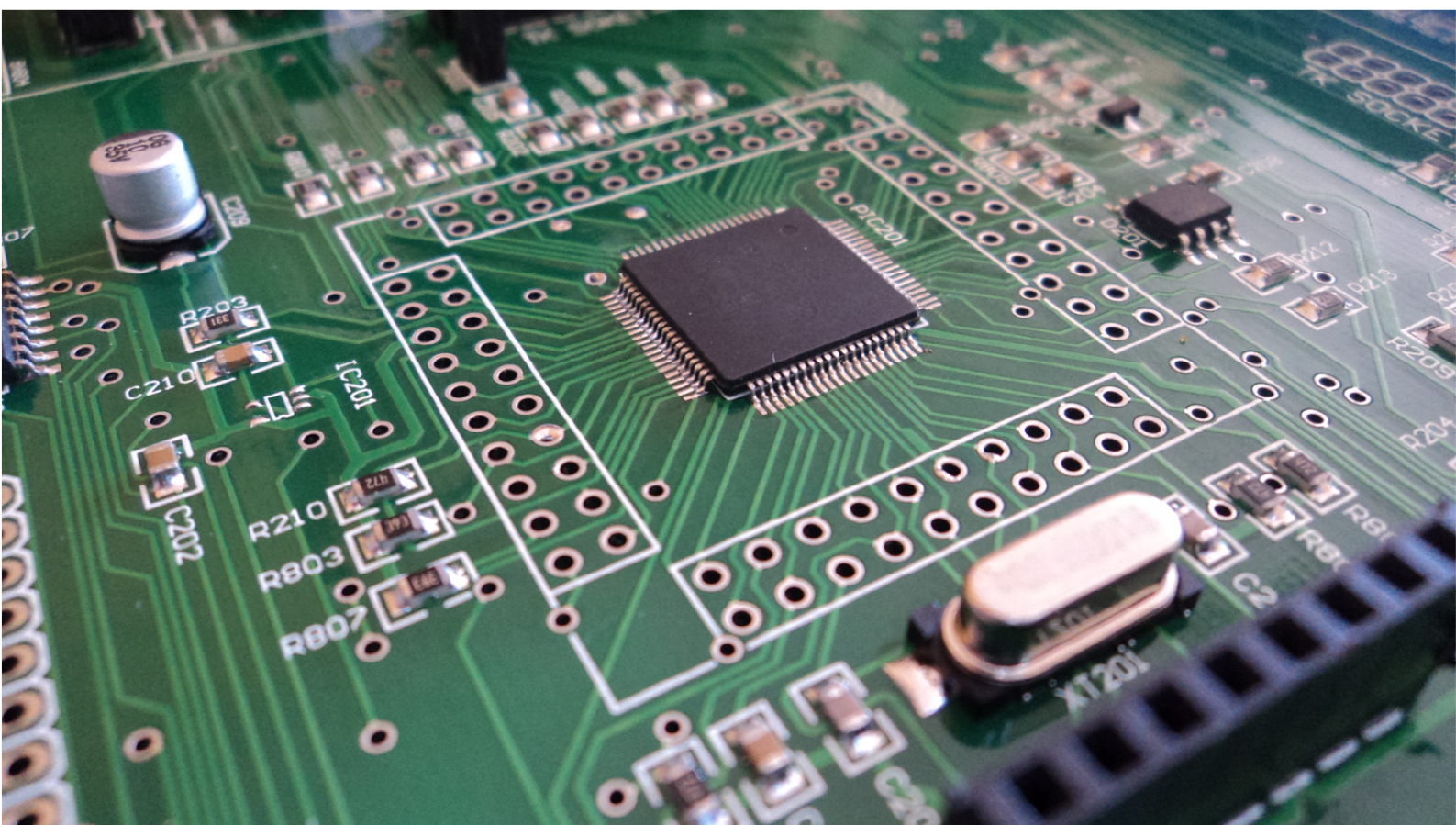


birINCI

Lift Controller Board

User Manual



Serial No:.....

Manual Version: 1.01r1 (HV: 1.00, SV: 1.08)



OUR FACTORY AND SERVICE STATION:

ASRONIK ELEVATOR & ELECTRONIC LTD. STI.

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Expected life is 10 years.

birINCI TERMINAL NUMBERS AND THE MEANINGS:

R,S,T	: Phase protection for the network input terminal phases
10A	: Neutral of safety circuit
120	: Stop return, Door contact start
130	: Door contact return, Lock start
140	: Lock return
11A	: Ru1/Rah, Ru2/Ryh relays common terminal.
11B	: Rh/Ray, Rf/Ryy relays common terminal.
RU1	: Down direction terminal for traction elevators, down-fast terminal for hydraulic elevators.
RU2	: Up direction terminal for traction elevators, up-fast terminal for hydraulic elevators.
RH	: Fast speed for traction elevators, down-slow terminal for hydraulic elevators.
RF	: Slow speed for traction elevators, up-slow terminal for hydraulic elevators.
RX1,RX2	: Rx relay NO terminals.
1,2	: Car lamp NO terminals.
LO, LA	: Cam relay NO terminals.
NC,CM,NO	: Rsvr relay NO, NC, COM terminals.
K3	: Close signal (<i>Common terminal is K15</i>)
K5	: Open signal (<i>Common terminal is K15</i>)
K15	: Common terminal of K3-K5
K16	: Automatic door opening limit terminal (<i>Common terminal is 100</i>)
K19	: Automatic door closing limit terminal (<i>Common terminal is 100</i>)
9V	: Supply of 9V AC
100	: +24 Volts
1000	: Common terminal of 100 signal (<i>-24 Volt</i>)
a,b,c,d,e,f,g,2bc,2g	: Display outputs (<i>Common terminal is 100</i>)
02	: Out of service output (<i>Common terminal is 100, adjustable</i>)
12	: Busy output (<i>Common terminal is 100, adjustable</i>)
031	: Up direction arrow output (<i>Common terminal is 100, adjustable</i>)
032	: Down direction arrow output (<i>Common terminal is 100, adjustable</i>)
190	: Landing call common terminal for simple control
M0,M1,M2,M3	: Bistable switch inputs (<i>Common terminal is 100</i>)
142	: JF Bistable switch input (<i>Common terminal is 100</i>)
OSB⁽¹⁾	: Auto leveling zone bistable switch input (<i>Common terminal is 100</i>)
JFA⁽¹⁾	: Down direction bistable switch input for hydrolic elevators (<i>Common terminal is 100</i>)
JFY⁽¹⁾	: Up direction bistable switch input for hydrolic elevators (<i>Common terminal is 100</i>)
817	: Lower limit switch input (<i>Common terminal is 100</i>)
818	: Higher limit switch input (<i>Common terminal is 100</i>)
804	: Over load input (<i>Common terminal is 100</i>)
805	: Full load input (<i>Common terminal is 100</i>)
DN1,DN2,DN3	: Adjustable flexible digital inputs (<i>Common terminal is 100</i>)
K20	: Automatic door open button, photocell input, thrust force contact input (<i>Common terminal is 100</i>)
DTS	: Automatic door close button (<i>Common terminal is 100</i>)
867a, 867b	: Panel inspection switch terminals (<i>Common terminal is 100</i>)
867	: First cabin inspection switch input (<i>Common terminal is 100</i>)
869	: Second cabin inspection switch input (<i>Common terminal is 100</i>)
500	: Inspection down buton input (<i>Common terminal is 100</i>)
501	: Inspection up buton input (<i>Common terminal is 100</i>)
KRC	: Contactor control signal input (<i>Common terminal is 100</i>)
PTC	: Motor termistor connection.
X1-X16	: Call terminals (<i>Common terminal is 100, LED common terminal is 1000</i>)

(1) : These inputs are properly active only “Hydrolic lifts.

(2) : These inputs are properly active only “Hydrolic lifts” and panels which KSK bridging board is integrated.

NOTE: Down, up, busy and out of service signals default common terminal is 1000.

It is possible to arrange the common terminal of down, up, busy and out of servis signals from J2 jumper on birINCI. And also the common terminal of busy lamp can be arrangeable from the J1 jumpers on birINCI. This situaiton must be taken into account that when changing the supply of busy lamp, the 190 terminal supply changes.

CONTROL PANEL TERMINAL NUMBERS AND MEANINGS:

R,S,T	: Main Phases
Mp	: Neutral
PE	: Ground
U1,V1,W1	: High speed motor outputs for rope lifts and motor winding terminals for hydrolic lifts..
U2,V2,W2	: Low speed motor outputs for rope lifts, and motor winding terminals for hydrolic lifts.
99	: Landing call common terminals (+24V) for panels with integrated UPS rescue system.
100	: +24 Volts
1000	: Common terminal of 100 signal (-24 Volt)
FR+,FR-	: Mechanical brake coil supply.
PO+,PO-	: Cam coil supply.
1F	: Direct phase
1	: Direct phase output over the cabin
2	: Cabin lamp
110	: Safety circuit start point.
111,112,113	: Null terminals.
120	: Stop return, door contact start point.
130	: Door contact return, lock start point.
140	: Lock return.
K3	: Close signal (<i>Common terminal is K15</i>)
K5	: Open signal (<i>Common terminal is K15</i>)
K15	: Common terminal of K3-K5
K16	: Automatic door opening limit terminal (<i>Common terminal is 100</i>)
K19	: Automatic door closing limit terminal (<i>Common terminal is 100</i>)

Dear Customer,

We would like to thank you for choosing the birINCI controller board which is produced the Surface Mounting technology in full automatic pick&place machines with the latest permitted facilities of microelectronic systems. We want to give you the best performance of our products which are produced in modern facilities with supreme quality control. For this purpose, please read this document carefully before you start installation and keep this as a reference for further requirements.

We are spending many times for correctly installation and use of our products That's why we are updating these documents consistently. All technical drawings are controlled again and again before presented to you. But of course we might have some mistakes in prolonged work. Please inform us immediately if you encounter a mistake in the document, especially with the drawings to help us. We will be with you with the new documents and updated versions.

Please follow new products and updates at www.asronik.com.

ATTENTION! : All documents in this catalog are advisory. In spite of our hard work it may contain errors. Please control the information in this document, think on them and ask yourself before implementing.

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1. INTRODUCTION:

birINCI lift controller board is a microcontroller based electronic lift control system. This board can be used to control both traction drive rope lifts, hydrolic lifts and machine-roomless elevators with PMSM's. Connector module that comes with birINCI control board is used to connect easily control board connectors to control panel connectors. Fast call board allows calls during repair-maintenance of the lift easily and flawlessly.

2. FEATURES OF THE PRODUCT:

- Easy using and best performance for all type of lifts by different application macros of different lift types.
- It is possible to add new features with optional boards. birINCI has got flexible architecture.
- birINCI has got mobil keypad. You can save the parameters to keypad and also load the parameters back to birINCI.
- Adjustable control type.
- Adjustable number of stops.
- Call inputs and stop capacities can be increased with card addition.
- Call lamps and buttons can be connected to the system with a single cable.
- All parameters can be adjusted easily using LCD screen and program buttons.
- Simple and error-free installation provides savings from time and number of control panel connectors.
- Short circuit protected display outputs having adjustable codes for every stop is available.
- Overload function is available.
- Full load function is present.
- VIP function is available.
- In case of fire, lift can be guided to a pre-defined stop.
- Adjustable parking stop and park travel time is available.
- Gray code, counter mode and encoder mode is available.
- Adjustable position reset function is available.
- In case of bistable switch faults, broken bistable switch can be detected easily.
- Auto reset feature of KRC fault, low-speed fault and hi-speed fault can be selected.
- Programmable relays for different using which aren't used on some type of applications.
- Warning function in LCD screen is available for the situation the door is left open for a long time.
- Adjustable busy time, wait time on the floor, lock wait time, door stay open time, door open error time, parking time, maximum high speed time and maximum low speed time features are present.
- For different types of buttons, display output type can be choosed as "a,b,c,d Segment", "Gray Code", "Inverted Gray", "Binary Code", "Inverted Binary".
- On the "TeleKon Serial Communication Board", display output type can be choosed as "a,b,c,d Segment", "Gray Code", "Inverted Gray", "Binary Code", "Inverted Binary".
- Password function is available.
- With TeleKon Serial Communication Board, communication can be done with only 2 cables. .
- It can operate in dublex mode.
- Auto-door type is eligible and Open/Closed standby mode for the fully automatic door can be chosen. Also auto-door type can be choosen in different types for per floors. For example door type can be choosen as full automatic for ground and first floor, and then it can be choosen as semiauto for garage floor. Also it can be choosen as "stay open" for ground floor and "stay closed" for first floor.
- Adjustable Rx time and drifting time for soft stop on the VVVF lifts.
- This card can properly run till 2,0 m/s speed lifts. Number of neighbor stops can be adjusted. Different decelerate zones can be determined by birINCI for neighbor calls and the others.
- Run properly with hydrolic lifts which is driven by "star-delta" or "soft-starter".
- In star-delta hydrolic lifts; star-delta time, start-up valve delay, stopping motor delay, stopping valve delay can be adjusted individually.
- Adjustable soft starter contactor delay in soft starter hydrolic lifts.
- In roped or hydrolic lifts, door pre-opening can be done with the addition of KSK bridging board.
- In roped or hydrolic lifts, door relevelevelling when the open door is open can be done with the addition of KSK bridging board.
- In hydrolic and VVVF lifts, rescuing can be done with UPS addition.
- It stores the last 50 errors .
- All inputs and outputs can be tested on test menu.
- Turkish and English language options are present as standard feature.

3. LCD SCREEN AND KEYPAD

birINCI lift controller board includes two line 16 character LCD screen and four push-buttons designated as ENTER, ESC, UP and DOWN keys.

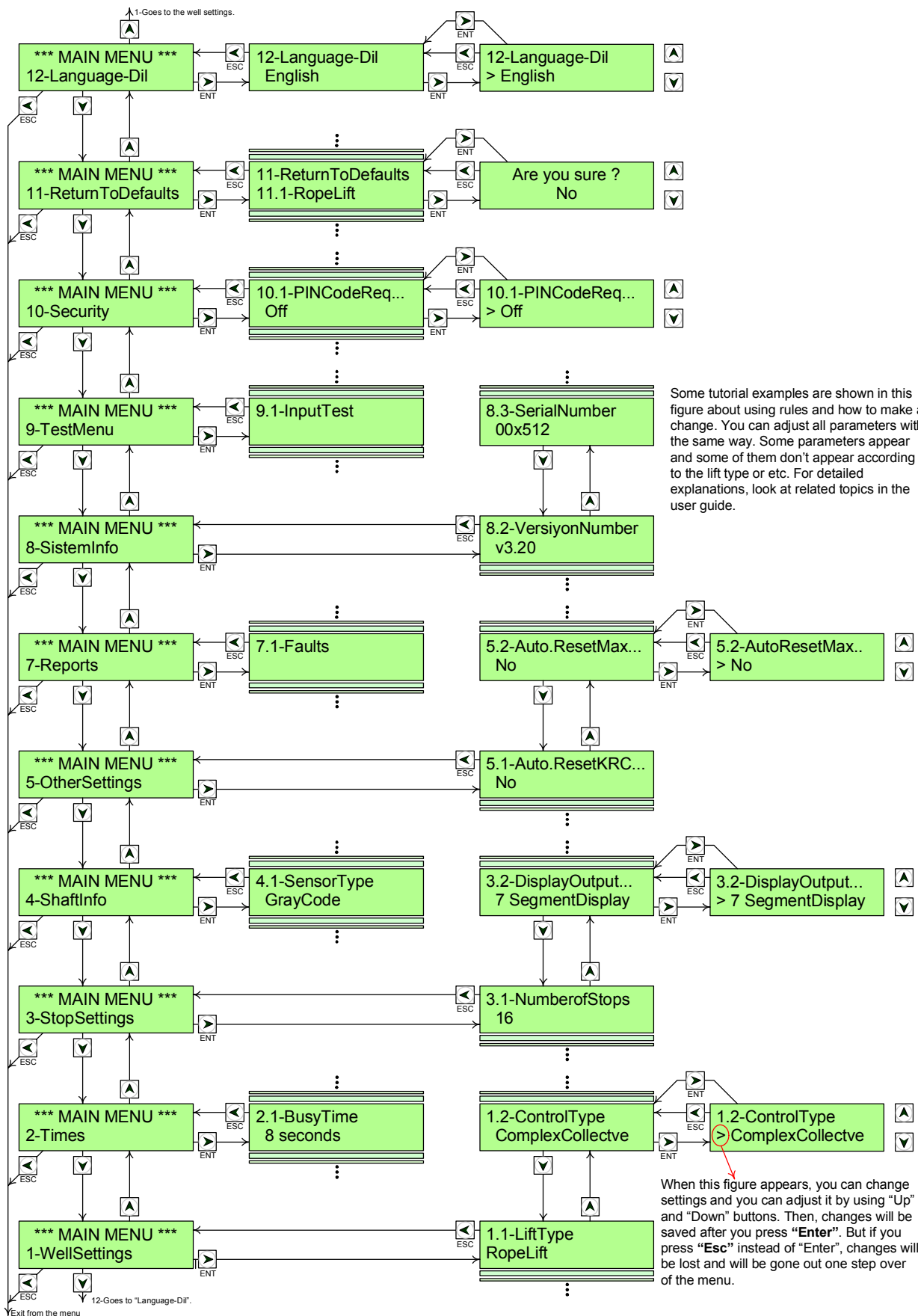
ASRONIK Elevator birINCI Mainboard	When the system is powered, LCD screen displays messages named “Initialize Screen”. In the first message, manufacturing company and product names are displayed. Afterwards the version number of the product is displayed. In the third message, the serial number of the board used is shown. Each of these screens are displayed for one second and then the screen called “Main screen” is displayed.
ASRONIK Elevator Version: 1.00	
ASRONIK Elevator Serial :00x259	Main screen displays that lift waits for an entry and also transformer voltage feeding control signals are shown. On this screen, “c” denotes <u>the stop where the Cabin is located</u> and “t” denotes the <u>Target stop of the cabin</u> .
AwaitingRecord d01→h-- 100=25V	
UP FAST 1,3 s d01→h05 100=25V	For example, while the cabin is located in the 1st stop, if it gets an call for 5th stop, after the lift starts moving, the screen shown on the left side is displayed..

4. USE OF MENUS IN birINCI LIFT CONTROLLER BOARD:

In birINCI lift controller board all parameters have been grouped and numbered. Hence, reaching any parameter, displaying its value and making changes are extremely easy.

*** MAIN MENU *** 1-Well settings	When birINCI is in standby mode in main screen, menu is entered by pressing ENTER key for 3 seconds. Here, the screen shown in the left side is displayed. User can browse in main menu by using UP and DOWN keys. ENTER key can be pressed to enter in the desired parameter group.
2.1-BusyTime 8 seconds	For example, to enter in the 2nd parameter group, when ENTER key is pressed, the first one of the 2nd parameter group “2.1-Busy Time” parameter is displayed as shown in the left. Similarly, other parameters can be browsed using UP and DOWN buttons. To change the parameter, desired parameter is chosen by pressing ENTER button.
2.1-BusyTime > 8 seconds	When ENTER key is pressed a right ARROW sign is displayed on the screen. Now, it is possible to change this parameter using UP and DOWN keys. Pressing ENTER key confirms the changes or ESC key can be pressed to cancel the changes and current menu is exited. When the ENTER key pressed, the arrow sign disappears and the changes you have made is immediately stored and activated. Similarly, after all necessary adjustments have been made; menu can be exited by pressing ESC key.

Use of menus scheme is shown on the next page.



5. PARAMETERS:

A large number of adjustable parameters are provided to the user to meet demands of lifts in the field. Because many number of parameters exist, for ease of use, they have been classified in terms of their characteristics and functions. Parameter list is shown below.

5.1. System Parameters:

birINCI controller board provides high quality features to the user by presenting different application macros of different lift types. The constant system parameters are conceived as follows.

Par. No:	Parameter Name	Setting Field	Default	Explanations
6. OVERHAUL				
6.1.	Overhaul Period		cancel	
6.2.	End of Period		-	
6.3.	Remain Time		-	
6.4.	Make Overhaul		-	
7. REPORTS				
7.1.	Faults		-	Previously occurred 50 faults can be seen here. The number of the latest fault is 1 and the number of the first fault is 50. When more than 50 faults occur, the earliest occurred fault is lost
7.2.	Erase Faults		-	It can be used to erase the recorded faults from the memory..
8. SYSTEM INFO				
8.2.	Version		-	Version number of the software can be seen from this parameter.
8.3.	Serial No		-	Serial number of the product can be seen from this parameter.
8.4.	Manufacturer		-	The contact information of the manufacturer ASRONIK can be seen from this parameter. Other communication data can be obtained by using up-down buttons inside this parameter
8.5.	Dealer		-	The communication information of the authorized seller firm on your area can be seen from this parameter. Other communication data can be obtained by using up-down buttons inside this parameter
9. TEST MENU				
9.1.	Input Test		-	19 general purpose inputs located just below the LCD screen can be tested by this parameter. SDL is the abbreviation for stop, door contact and lock. 110 data just below the SDL abbreviation implies that stop and door contact are energized and lock is not. The numbers lying in two lines located on the right hand side represent 19 inputs located below the LCD screen, which is ordered from left to right, i.e. the first info on the upper line represent M0 and the second one represent M1. Therefore, all inputs whether they can be sensed by microcontroller or not can be tested
9.2.	Call Test		-	The inputs coming from call buttons can be tested by this parameter. The information seen on the screen represents call inputs in the ordered way. The first character on the upper line represents the first one of the call inputs located on birINCI. Therefore, all calls whether they can be sensed by microcontroller or not can be tested
9.3.	Exp. Call Test		-	If an expansion call card connected to birINCI is present, the inputs on this card can be tested by this parameter. The information seen on the screen represents expansion call inputs in the ordered way. NOTE: If control type and stop number parameters was set in a way that an expansion call card is not required, testing the expansion call card is not possible
9.4.	RelayTest		-	All relays placed on birINCI can be tested by this parameter. To prevent an undesired motion of the lift, before starting test process, emergency stop button must be pressed and the lift must be taken to the inspection. When these conditions are satisfied, R31 relay is instantly switched on. Using up and down buttons, switching the relays on and off one by one is possible. However, at the moment a relay is switched on, if KRC signal is cut off (i.e. contactor is activated), for safety, all relays are automatically switched off and the menu is exited
10. SECURITY				
10.1.	PIN Request	On Off	Off	Password query can be activated by this parameter to ensure no unauthorized person to get access to birINCI, observe parameters and modifying them. If password query is enabled, the password must be correctly submitted to disable it. NOTE: When password query was disabled and enabled again the former password is valid. For that reason, even if you disable password query, don't forget it. The factory default of the password is "000000". NOTE: If you submit wrong password 5 times, birINCI blocks itself. System goes on operating but parameter access is prevented. After your password is blocked, a key number is seen on the screen. Call ASRONIK and notify us this key number. You can reactivate the card by entering birINCI the number provided to you.
10.2.	PIN Change		-	This menu can only be displayed if password query is enabled. When you wanted to change the password, your old password is asked. Then you submit your new password. For approval, birINCI asks for the new password again. Then,

				"PasswordChanged" message is displayed on the screen. Your new password is now active
11. RETURN TO DEFAULTS				
11.1.	Roped Lift		-	Lift type can only be changable with returning the factory defaults. After this process the hidden parameters are visible. For example, Rx time parameter is only accesible at Rope VVVF macros, Star-Delta time parameter is only accesible at Star-Delta Hydraulic Macros.
11.2.	Rope VVVF		-	
11.3.	Star/Delta Hydraulic		-	
11.4.	Soft Starter Hydraulic		-	
11.5.	Copy to Keypad		-	Copy all parameters from birINCI to Keypad.
11.4.	Copy to birINCI		-	Copy all parameters from Keypad to birINCI.
12. DİL - LANGUAGE				
12.	Dil - Language	Turkish – English	Turkish	birINCI controller board supports Turkish and English languages as standart. Please contact the manufacturer for other language demands.

5.2. Rope Lift Application Macro:

If the lift type is selected as "Rope Lift", the application macro which is prepared for rope lifts turns on. In this macro, parameters below are activated.

Par. No:	Parameter Name:	Setting Fields	Default	Explanations
1. WELL SETTINGS				
1.1.	LiftType	-	RopeLift	Only displayable, not changeable. To make a change, look for 11.th group parameters
1.2.	ControlType	SimplePushButon FullCollective 1But.DownCollec 1But.UpCollectv 1But.FullCollec 2But.FullCollec	Full Collective	For connection principle have a look at the drawings numbered 6x
1.3.	CarComm.	Parallel Serial	Parallel	
1.5.	LiftGroups	Simplex Duplex A Duplex B	Simplex	
1.6.	Auto.Door-1	None SemiAutomatic FullAutomatic FullAuto.Open Special Door	SemiAutomatic	
1.7.	SpecialDoor-1	SA (SemiAutomatic) FA (FullAutomatic) FADO (FullAuto.DoorOpen)	-	This parameter can be displayed only if the "1.6-Auto.Door-1" was set as "SpecialDoor-1"
1.8.	Auto.Door-2	None SemiAutomatic FullAutomatic FullAuto.Open Special Door	None	
1.9.	SpecialDoor-2	SA (SemiAutomatic) FA (FullAutomatic) FADO (FullAuto.DoorOpen)	-	This parameter can be displayed only if the "1.8-Auto.Door -2" was set as "SpecialDoor-2"
1.10.	SelectDoor	1.Dr (1th Door) 2.Dr (2nd door) 1-2D (1th and 2nd Door)	-	This parameter can be displayed only if the "1.8-Auto.Door-2" was set except "None"
1.11.	DoorPreOpening	No Yes	-	This parameter can be displayed only if the "4.1-SensorType" was set as "GrayCode" or "Encoder". If "Yes" is selected, OSB signal is required. So you must put OSB bistabil switch on the shaft.
1.12.	Releveling	Cancel DoorClose DoorOpen	-	This parameter can be displayed only if the "4.1-SensorType" was set as "Encoder"
2. TIMES				
2.1.	BusyTime	1 ~ 20 seconds	8 seconds	
2.2.	WaitTimeAtStops	1 ~ 15 seconds	4 seconds	
2.3.	LockWaitTime	5 ~ 25 seconds	15 seconds	
2.4.	DoorStayOpenedTime	1 ~ 40 seconds	6 seconds	This parameter can be displayed only if the type of door was set as "FullAutomatic" or "SpecialDoor"

2.5.	PhotocellTime	1 ~ 40 seconds	3 seconds	This parameter can be displayed only if the "1.6-Auto.Door-1" and "1.8-Auto.Door-2" was set as "FullAutomatic" or "SpecialDoor".
2.6.	OpenDoorFaultTime	10 ~ 240 seconds	60 seconds	
2.7.	ParkingTime	20 ~ 250 seconds	30 seconds	This parameter can be displayed only if the "3.7-ParkingStop" was set except "Cancel"
2.8.	SlowTravelTime	5 ~ 20 seconds	10 seconds	
2.9.	FastTravelTime	10 ~ 100 seconds	15 seconds	
3. STOP SETTINGS				
3.1.	NumberOfStops	2 ~ 16 stops	16	
3.2.	DisplayOutputType	7 SegmentDisply GrayCode InvertedGray	7 Segment Disply	
3.3.	TeleKonDisplayOutput Type	BinaryCode InvertedBinary		
3.4.	TelekonReserveOutput Type	GrayCode InvertedGray BinaryCode InvertedBinary	Gray Code	This parameter can be displayed only if the "1.3-CarComm." was set as "Serial"
3.5.	DisplaySettings			This parameter can be displayed only if one of "3.2-DisplayOutputType" or "3.3-TelekonDisplayOutputType" parameter was set as "7 SegmentDisplay". Also stops that adjusted by "3.1-NumberOfStops" can be adjusted only.
3.6.	FireStop	Cancel, 1 ~ 16 stops	Cancel	
3.5.	ParkingStop	Cancel, 1 ~ 16 stops	Cancel	
4. SHAFT INFO				
4.1.	SensorType	Gray Code Counter Encoder	GrayCode	Encoder details are written in the user's manual of encoder
4.2.	PositionReset	No Yes	No	This parameter can be displayed only if the sensor type is "Counter".
5. OTHER SETTINGS				
5.1.	AutoResetKRC	No Yes	No	
5.2.	AutoResetMaxLow SpeedFault	No Yes	No	
5.3.	AutoResetMaxHigh SpeedFault	No Yes	No	
5.4.	PhaseControl	No Yes	Yes	
5.5.	StopClearCall	No Yes	Yes	
5.6.	Animation	No Yes	Yes	
5.20.	ExpertUser	No Yes	No	This parameter is exceeded from the Menu automatically "No"
5.21.	Rh Relay	Cancel O-Rh,Ray O-Rf,Ryy O-Rvh O-Rx O-Rescue O-Rkl O-Rlir	O-Rh,Ray	This parameter can be displayed only if the "5.20-ExpertUser" was set as "Yes".
5.22.	Rf Relay	O-Door1Open O-Door1Close O-Door2Open O-Door2Close O-Inspection O-Fault O-Fault+Insp. O-Gong O-Star,SS Cont. O-Delta,SS Run O-Gray0 O-Gray1 O-Gray2 O-Gray3 O-ReverseGray0 O-ReverseGray1 O-ReverseGray2 O-ReverseGray3 O-Binary0 O-Binary1 O-Binary2 O-Binary3	O-Rf,Ryy	
5.23.	Rx Relay		Cancel	
5.24.	Rkl Relay		O-Rkl	
5.25.	Rlir Relay		O-Rlir	
5.26.	Rsvr Relay		O-Gong	
5.27.	Rdo Relay		O-Door1Open	

5.28.	Rdc Relay	O-ReverseBinary0 O-ReverseBinary1 O-ReverseBinary2 O-ReverseBinary3	O-Door1Close	
5.31.	DN1	Cancel I-PowerDown I-818Y	Cancel	
5.32.	DN2	I-Door2-K20 I-Door2-DTS	Cancel	
5.33.	DN3	I-805 I-812 I-815 I-816	Cancel	
5.41.	OPT1A I/O 1	Cancel O-Rh,Ray O-Rf,Ryy O-Rvh O-Rx	Cancel	
5.42.	OPT1A I/O 2	O-Rescue O-Rkl O-Rlir O-Door1Open O-Door1Close O-Door2Open O-Door2Close	Cancel	
5.43.	OPT1A I/O 3	O-Inspection O-Fault O-Fault+Insp. O-Gong	Cancel	
5.44.	OPT1A I/O 4	O-Star,SS Cont. O-Delta,SS Run. O-Gray0 O-Gray1 O-Gray2 O-Gray3	Cancel	
5.45.	OPT1A I/O 5	O-ReverseGray0 O-ReverseGray 1 O-ReverseGray 2 O-ReverseGray 3	Cancel	
5.46.	OPT1A I/O 6	O-Binary0 O-Binary1 O-Binary2 O-Binary3 O-ReverseBinary0 O-ReverseBinary1 O-ReverseBinary2 O-ReverseBinary3	Cancel	
5.47.	OPT1A I/O 7	I-PowerDown I-818Y I-Door2-K20 I-Door2-DTS	Cancel	
5.48.	OPT1A I/O 8	I-805 I-812 I-815 I-816	Cancel	
5.49.	OPT1B I/O RO1	See parameter 5.21.	Cancel	
5.50.	OPT1B I/O RO2		Cancel	
5.51.	OPT1B I/O Din 1	See parameter 5.31.	Cancel	
5.52.	OPT1B I/O Din 2		Cancel	

5.3. Rope VVVF Lift Application Macro:

If the lift type is selected as “Rope VVVF Lift”, the application macro which is prepared for speed controlled lifts turns on. In this macro, parameters below are activated.

Par. No:	Parameter Name:	Setting Field	Default	Explanations
1. WELL SETTINGS				
1.1.	LiftType	-	RopeVVVF	Only displayable, not changeable. To make a change, look for 11.th Group parameters
1.2.	ControlType	SimplePushButon FullCollective 1But.DownCollec 1But.UpCollectv 1But.FullCollec 2But.FullCollec	FullCollective	For connection principle have a look at the drawings numbered 6x
1.3.	CarComm.	Parallel Serial	Parallel	

1.5.	LiftGroups	Simplex Duplex A Duplex B	Simplex	
1.6.	Auto.Door-1	None SemiAutomatic FullAutomatic FullAuto.Open Special Door	SemiAutomatic	
1.7.	SpecialDoor-1	SA (SemiAutomatic) FA (FullAutomatic) FADO (FullAuto.DoorOpen)	-	This parameter can be displayed only , "1.6-Auto.Door-1" parameter was set "SpecialDoor"
1.8.	Auto.Door-2	None SemiAutomatic FullAutomatic FullAuto.Open Special Door	None	This parameter can be displayed only if the "4.1-SensorType" was set as "GrayCode" or "Encoder"
1.9.	SpecialDoor-2	SA (SemiAutomatic) FA (FullAutomatic) FADO (FullAuto.DoorOpen)	-	This parameter can be displayed only , "1.8-Auto.Door-2" parameter was set "SpecialDoor"
1.10.	SelectDoor	1.Dr (1th Door) 2.Dr (2nd door) 1-2D (1th and 2nd Door)	-	This parameter can be displayed only if the "1.8-Auto.Door-2" was set except "None"
1.11.	DoorPreOpening	No Yes	-	This parameter can be displayed only if the "4.1-SensorType" was set as "Counter" or "Encoder". If "Yes" is selected, OSB signal is required. So you must put OSB bistabil switch on the shaft.
1.12.	Releveling	Cancel DoorClose DoorOpen	-	This parameter can be displayed only if the "4.1-SensorType" was set as "Encoder"
2. TIMES				
2.1.	BusyTime	1 ~ 20 seconds	8 seconds	
2.2.	WaitTimeAtStops	1 ~ 15 seconds	4 seconds	
2.3.	LockWaitTime	5 ~ 25 seconds	15 seconds	
2.4.	DoorStayOpened Time	1 ~ 40 seconds	6 seconds	This parameter can be displayed only if the type of door was set as "FullAutomatic" or "SpecialDoor".
2.5.	PhotocellTime	1 ~ 40 seconds	3 seconds	This parameter can be displayed only if the "1.6-AutoDoor-1" and "1.8-AutoDoor-2" was set as "FullAutomatic" or "SpecialDoor".
2.6.	OpenDoorFault Time	10 ~ 240 seconds	60 seconds	
2.7.	ParkingTime	20 ~ 250 seconds	30 seconds	This parameter can be displayed only if the "3.7-ParkingStop" was set except "Cancel"
2.8.	SlowTravelTime	5 ~ 20 seconds	10 seconds	
2.9.	FastTravelTime	10 ~ 100 seconds	15 seconds	
2.30.	DriftTime	0,0 ~ 2,0 seconds	0,0 seconds	
2.31.	RxDelay	0,0 ~ 5,0 seconds	1,5 seconds	
3. STOP SETTINGS				
3.1.	NumberOfStops	2 ~ 16 stops	16	
3.2.	DisplayOutputType	7 SegmentDisply GrayCode InvertedGray	7 Segment Disply	This parameter can be displayed only if the "1.3-CarComm." was set as "Serial".
3.3.	TeleKonDisplayOutput Type	BinaryCode InvertedBinary		
3.4.	TelekonReserveOutput Type	GrayCode InvertedGray BinaryCode InvertedBinary	GrayCode	This parameter can be displayed only if the "1.3-CarComm." was set as "Serial".
3.5.	DisplaySettings			This parameter can be displayed only if one of "3.2-DisplayOutputType" or "3.3-TelekonDisplayOutputType" parameter was set as "7 SegmentDisply". Also stops that adjusted by "3.1-NumberOfStops" can be adjusted only.
3.6.	FireStop	Cancel, 1 ~ 16 stops	Cancel	
3.5.	ParkingStop	Cancel, 1 ~ 16 stops	Cancel	
4. SHAFT INFO				
4.2.	PositionReset	No Yes	No	This parameter can be displayed only if the sensor type is "Counter".
5. OTHER SETTINGS				
5.1.	AutoResetKRC	No Yes	No	
5.2.	AutoResetMaxLow SpeedTimeFault	No Yes	No	
5.3.	AutoResetMaxHigh SpeedTimeFault	No Yes	No	
5.4.	PhaseControl	No Yes	Yes	

5.5.	StopClearCall	No Yes	Yes	
5.6.	Animation	No Yes	Yes	
5.20.	ExpertUser	No Yes	No	This parameter is exceeded from the Menu automatically "No"
5.21.	Rh Relay	Cancel O-Rh,Ray O-Rf,Ryy O-Rvh O-Rx O-Rescue O-Rkl O-Rlir O-Door1Open O-Door1Close O-Door2Open O-Door2Close O-Inspection O-Fault O-Fault+Insp. O-Gong O-Star,SS Cont. O-Delta,SS Run O-Gray0 O-Gray1 O-Gray2 O-Gray3 O-ReverseGray0 O-ReverseGray1 O-ReverseGray2 O-ReverseGray3 O-Binary0 O-Binary1 O-Binary2 O-Binary3 O-ReverseBinary0 O-ReverseBinary1 O-ReverseBinary2 O-ReverseBinary3	O-Rh,Ray	This parameter can be displayed only if the "5.20-ExpertUser" was set as "Yes".
5.22.	Rf Relay		O-Fault+Insp.	
5.23.	Rx Relay		O-Rx	
5.24.	Rkl Relay		O-Rkl	
5.25.	Rlir Relay		O-Rlir	
5.26.	Rsvr Relay		O-Rescue	
5.27.	Rdo Relay		O-Door1Open	
5.28.	Rdc Relay		O-Door1Close	
5.31.	DN1	Cancel I-PowerDown I-818Y I-Door2-K20 I-Door2-DTS I-805 I-812 I-815 I-816	I-818Y	
5.32.	DN2		I-PowerDown	
5.33.	DN3		Cancel	
5.41.	OPT1A I/O 1	Cancel O-Rh,Ray O-Rf,Ryy O-Rvh O-Rx O-Rescue O-Rkl O-Rlir O-Door1Open O-Door1Close O-Door2Open O-Door2Close O-Inspection O-Fault O-Fault+Insp. O-Gong O-Star,SS Cont. O-Delta,SS Run. O-Gray0 O-Gray1 O-Gray2 O-Gray3 O-ReverseGray0 O-ReverseGray1 O-ReverseGray2 O-ReverseGray3 O-Binary0 O-Binary1 O-Binary2 O-Binary3 O-ReverseBinary0 O-ReverseBinary1	Cancel	These parameters can be displayed only , "5.20-ExpertUser" parameter was set "Yes".
5.42.	OPT1A I/O 2		Cancel	
5.43.	OPT1A I/O 3		Cancel	
5.44.	OPT1A I/O 4		Cancel	
5.45.	OPT1A I/O 5		Cancel	
5.46.	OPT1A I/O 6		Cancel	

5.47.	OPT1A I/O 7	O-ReverseBinary2 O-ReverseBinary3 I-PowerDown I-818Y I-Door2-K20 I-Door2-DTS	Cancel	
5.48.	OPT1A I/O 8	I-805 I-812 I-815 I-816	Cancel	
5.49.	OPT1B I/O RO1	See parameter 5.21.	Cancel	
5.50.	OPT1B I/O RO2		Cancel	
5.51.	OPT1B I/O Din 1	See parameter 5.31.	Cancel	
5.52.	OPT1B I/O Din 2		Cancel	

5.4. Star-Delta Hydraulic Lift Application Macro:

If the lift type is selected as “Star-Delta Hydraulic Lift”, the application macro which is prepared for hydraulic lifts which are driven by star-delta method, turns on. In this macro, parameters below are activated

Par. No:	Parameter Name:	Setting Fields	Default	Explanations
1. WELL SETTINGS				
1.1.	LiftType	-	Star-Delta Hydraulic	Only displayable, not changeable. To make a change, look for 11.th group parameters
1.2.	ControlType	SimplePushButon FullCollective 1But.DownCollec 1But.UpCollectv 1But.FullCollec 2But.FullCollec	FullCollective	For connection principle have a look at the drawings numbered 6x
1.3.	CarComm.	Parallel Serial	Parallel	
1.5.	LiftGroups	Simplex Duplex A Duplex B	Simplex	
1.6.	Auto.Door-1	None SemiAutomatic FullAutomatic FullAuto.Open Special Door	FullAutomatic	
1.7.	SpecialDoor-1	SA (SemiAutomatic) FA (FullAutomatic) FADO (FullAuto.DoorOpen)	-	This parameter can be displayed only if the “1.6-Auto.Door-1” was set as “SpecialDoor”
1.8.	Auto.Door-2	None SemiAutomatic FullAutomatic FullAuto.Open Special Door	None	
1.9.	SpecialDoor-2	SA (SemiAutomatic) FA (FullAutomatic) FADO (FullAuto.DoorOpen)	-	This parameter can be displayed only if the “1.8-Auto.Door-2” was set as “SpecialDoor”
1.10.	SelectDoor	1.Dr (1th Door) 2.Dr (2nd door) 1-2D (1th and 2nd Door)	-	This parameter can be displayed only if the “1.8-Auto.Door-2” was set except “None”
1.11.	DoorPreOpening	No Yes	No	If “Yes” is selected, OSB signal is required. So you must put OSB bistabil switch on the shaft.
1.12.	Releveling	Cancel DoorClose DoorOpen	DoorClose	If “DoorOpen” is selected, OSB signal is required. So you must put OSB bistabil switch on the shaft. Otherwise OSB is not required.
2.TIMES				
2.1.	BusyTime	1 ~ 20 seconds	8 seconds	
2.2.	WaitTimeAtStops	1 ~ 15 seconds	4 seconds	
2.3.	LockWaitTime	5 ~ 25 seconds	15 seconds	
2.4.	DoorStayOpenedTime	1 ~ 40 seconds	6 seconds	This parameter can be displayed only if the type of door was set as “FullAutomatic” or “SpecialDoor”.
2.5.	PhotocellTime	1 ~ 40 seconds	3 seconds	This parameter can be displayed only if the “1.6-AutoDoor-1” and “1.8-AutoDoor-2” was set as “FullAutomatic” or “SpecialDoor”.
2.6.	OpenDoorFaultTime	10 ~ 240 seconds	60 seconds	
2.7.	ParkingTime	20 ~ 250 seconds	30 seconds	This parameter can be displayed only if the “3.7-ParkingStop” was set except “Cancel”
2.8.	SlowTravelTime	5 ~ 20 seconds	10 seconds	

2.9.	FastTravelTime	10 ~ 100 seconds	15 seconds	
2.60.	StarDeltaTime	0,0 ~ 5,0 seconds	0,8 seconds	
2.61.	ValveDelayAtRunning	0,0 ~ 5,0 seconds	0,5 seconds	
2.62.	MotorDelayAtStopping	0,0 ~ 5,0 seconds	0,4 seconds	
2.64.	ValveDelayAtStopping	0,0 ~ 5,0 seconds	0,0 seconds	
2.65.	StopDelayAt Inspec.Speed	0,0 ~ 2,0 seconds	0,0 seconds	
3. STOP SETTINGS				
3.1.	NumberOfStops	2 ~ 16 stops	16	
3.2.	DisplayOutputType	7 SegmentDisply GrayCode InvertedGray BinaryCode InvertedBinary	7 Segment Disply	This parameter can be displayed only if the "1.3-CarComm." was set as "Serial"
3.3.	TeleKonDisplayOutputType	GrayCode InvertedGray BinaryCode InvertedBinary	GrayCode	
3.4.	TelekonReserveOutputType	GrayCode InvertedGray BinaryCode InvertedBinary	GrayCode	
3.5.	DisplaySettings			This parameter can be displayed only if one of "3.2-DisplayOutputType" or "3.3-TelekonDisplayOutputType" parameter was set as "7 SegmentDisply". Also stops that adjusted by "3.1-NumberOfStops" can be adjusted only.
3.6.	FireStop	Cancel, 1 ~ 16 stops	Cancel	
3.5.	ParkingStop	Cancel, 1 ~ 16 stops	Cancel	
4. SHAFT INFO				
4.1.	SensorType	Counter Encoder	Counter	Encoder details are written in the user's manual of encoder
4.2.	PositionReset	No Yes	No	This parameter can be displayed only if the sensor type is "Counter".
5. OTHER SETTINGS				
5.1.	AutoResetKRC	No Yes	No	
5.2.	AutoResetMaxLow SpeedTimeFault	No Yes	No	
5.3.	AutoResetMaxHigh SpeedTimeFault	No Yes	No	
5.4.	PhaseControl	No Yes	Yes	
5.5.	StopClearCall	No Yes	Yes	
5.6.	Animation	No Yes	Yes	
5.20.	Expert User	No Yes	No	This parameter is exceeded from the Menu automatically "No"
5.21.	Rh Relay	Cancel O-Rh,Ray O-Rf,Ryy O-Rvh O-Rx O-Rescue O-Rkl O-Rlir	O-Rh,Ray	This parameter can be displayed only if the "5.20 Expert User" was set as "Yes"
5.22.	Rf relay	O-Door1Open O-Door1Close O-Door2Open O-Door2Close O-Inspection O-Fault O-Fault+Insp. O-Gong O-Star,SS Cont. O-Delta,SS Run O-Gray0 O-Gray1 O-Gray2 O-Gray3	O-Rf,Ryy	
5.23.	Rx relay		O-Delta,SS Cont.	
5.24.	Rkl relay		O-Rkl	
5.25.	Rlir relay		O-Rlir	
5.26.	Rsvr relay	O-ReverseGray0 O-ReverseGray1 O-ReverseGray2 O-ReverseGray3	O-Star,SS Run.	These parameters can be displayed only , "5.20.Expert User" parameter was set "Yes"
5.27.	Rdo relay	O-Binary0 O-Binary1 O-Binary2 O-Binary3	O- Door1Open	
5.28.	Rdc relay	O-ReverseBinary0 O-ReverseBinary1 O-ReverseBinary2 O-ReverseBinary3	O- Door1Close	

5.31.	DN1	Cancel I-PowerDown I-818Y	Cancel	
5.32.	DN2	I-Door2-K20 I-Door2-DTS I-805	I-PowerDown	
5.33.	DN3	I-812 I-815 I-816	Cancel	
5.41.	OPT1A I/O 1	Cancel O-Rh,Ray O-Rf,Ryy O-Rvh O-Rx O-Rescue O-Rkl O-Rlir O-Door1Open O-Door1Close O-Door2Open O-Door2Close O-Inspection O-Fault O-Fault+Insp. O-Gong O-Star,SS Cont. O-Delta,SS Run O-Gray0 O-Gray1 O-Gray2 O-Gray3 O-ReverseGray0 O-ReverseGray1 O-ReverseGray2 O-ReverseGray3 O-Binary0 O-Binary1 O-Binary2 O-Binary3 O-ReverseBinary0 O-ReverseBinary1 O-ReverseBinary2 O-ReverseBinary3 I-PowerDown I-818Y I-Door2-K20 I-Door2-DTS I-805 I-812 I-815 I-816	Cancel	
5.42.	OPT1A I/O 2		Cancel	
5.43.	OPT1A I/O 3		Cancel	
5.44.	OPT1A I/O 4		Cancel	
5.45.	OPT1A I/O 5		Cancel	
5.46.	OPT1A I/O 6		Cancel	
5.47.	OPT1A I/O 7		Cancel	
5.48.	OPT1A I/O 8		Cancel	
5.49.	OPT1B I/O RO1		Cancel	
5.50.	OPT1B I/O RO2	See parameter 5.21.	Cancel	
5.51.	OPT1B I/O Din 1		Cancel	
5.52.	OPT1B I/O Din 2	See parameter 5.31.	Cancel	

5.5. Soft Starter Hydraulic Lift Application Macro:

If the lift type is selected as “Soft Starter Hydraulic Lift”, the application macro which is prepared for hydraulic lifts which are driven by soft-starter method, turns on. In this macro, parameters below are activated.

Par. No:	Parameter Name:	Setting Fields	Default	Explanations
1. WELL SETTINGS				
1.1.	LiftType	-	SoftStarter-Hydraulic	Only displayable, not changeable. To make a change, look for 11.th group parameters
1.2.	ControlType	SimplePushButon FullCollective 1But.DownCollect 1But.UpCollectv 1But.FullCollect 2But.FullCollect	FullCollective	For connection principle have a look at the drawings numbered 6x
1.3.	CarCommunication	Parallel Serial	Parallel	
1.5.	LiftGroups	Simplex Duplex A Duplex B	Simplex	

1.6.	AutoDoor-1	None SemiAutomatic FullAutomatic FullAuto.Open Special Door	FullAutomatic	
1.7.	SpecialDoor-1	SA (SemiAutomatic) FA (FullAutomatic) FADO (FullAuto.DoorOpen)	-	This parameter can be displayed only if the "1.6-AutoDoor-1" was set as "SpecialDoor".
1.8.	AutoDoor-2	None SemiAutomatic FullAutomatic FullAuto.Open Special Door	None	
1.9.	SpecialDoor-2	SA (SemiAutomatic) FA (FullAutomatic) FADO (FullAuto.DoorOpen)	-	This parameter can be displayed only if the "1.8-AutoDoor-2" was set as "SpecialDoor".
1.10.	SelectDoor	1.Dr (1th Door) 2.Dr (2nd door) 1-2D (1th and 2nd Door)	-	This parameter can be displayed only if the "1.8-AutoDoor-2" was set except "None"
1.11.	DoorPreOpening	No Yes	No	If "Yes" is selected, OSB signal is required. So you must put OSB bistabil switch on the shaft.
1.12.	Releveling	Cancel DoorClose DoorOpen	DoorClosed	If "DoorOpen" is selected, OSB signal is required. So you must put OSB bistabil switch on the shaft. Otherwise OSB is not required.
2. TIMES				
2.1.	BusyTime	1 ~ 20 seconds	8 seconds	
2.2.	WaitTimeAtStops	1 ~ 15 seconds	4 seconds	
2.3.	LockWaitTime	5 ~ 25 seconds	15 seconds	
2.4.	DoorStayOpenedTime	1 ~ 40 seconds	6 seconds	This parameter can be displayed only if the type of door was set as "FullAutomatic" or "SpecialDoor".
2.5.	PhotocellTime	1 ~ 40 seconds	3 seconds	This parameter can be displayed only if the "1.6-AutoDoor-1" and "1.8-AutoDoor-2" was set as "FullAutomatic" or "SpecialDoor".
2.6.	OpenDoorFaultTime	10 ~ 240 seconds	60 seconds	
2.7.	ParkingTime	20 ~ 250 seconds	30 seconds	This parameter can be displayed only if the "3.7-Parking Stop" was set except "Cancel".
2.8.	SlowTravelTime	5 ~ 20 seconds	10 seconds	
2.9.	FastTravelTime	10 ~ 100 seconds	15 seconds	
2.61.	ValveDelayAtRunning	0,0 ~ 5,0 seconds	0,5 seconds	
2.62.	MotorDelayAtStopping	0,0 ~ 5,0 seconds	0,4 seconds	
2.63.	SoftStarterContactor Delay	0,0 ~ 5,0 seconds	1,0 seconds	
2.64.	ValveDelayAtStopping	0,0 ~ 5,0 seconds	0,0 seconds	
2.65.	StopDelayAt Inspec.Speed	0,0 ~ 2,0 seconds	0,0 seconds	
3. STOP SETTINGS				
3.1.	NumberOfStops	2 ~ 16 stops	16	
3.2.	DisplayOutputType	7 Segment Disply GrayCode	7 Segment Disply	This parameter can be displayed only if the "1.3-CarComm." was set as "Serial".
3.3.	TeleKonDisplayOutput Type	InvertedGray BinaryCode InvertedBinary		
3.4.	TelekonReserveOutput Type	GrayCode InvertedGray BinaryCode InvertedBinary	GrayCode	
3.5.	DisplaySettings			This parameter can be displayed only if one of "3.2-DisplayOutputType" or "3.3-TelekonDisplayOutputType" parameter was set as "7 SegmentDisply". Also stops that adjusted by "3.1-NumberOfStops" can be adjusted only.
3.6.	Fire Stop	Cancel, 1 ~ 16 stops	Cancel	
3.5.	Parking Stop	Cancel, 1 ~ 16 stops	Cancel	
4. SHAFT INFO				
4.1.	SensorType	Counter Encoder	Counter	Encoder details are written in the user's manual of encoder
4.2.	PositionReset	No Yes	No	This parameter can be displayed only if the sensor type is "Counter".
5. OTHER SETTINGS				
5.1.	AutoResetKRC	No Yes	No	
5.2.	AutoResetMaxLow SpeedTimeFault	No Yes	No	

5.3.	AutoResetMaxHighSpeedTimeFault	No Yes	No	
5.4.	PhaseControl	No Yes	Yes	
5.5.	StopClearCall	No Yes	Yes	
5.6.	Animation	No Yes	Yes	
5.20.	ExpertUser	No Yes	No	This parameter is exceeded from the Menu automatically "No"
5.21.	Rh Relay	Cancel O-Rh,Ray O-Rf,Ryy O-Rvh O-Rx O-Rescue O-Rkl O-Rlir O-Door1Open O-Door1Close O-Door2Open O-Door2Close O-Inspection O-Fault O-Fault+Insp. O-Gong O-Star,SS Cont. O-Delta,SS Run O-Gray0 O-Gray1 O-Gray2 O-Gray3 O-ReverseGray0 O-ReverseGray1 O-ReverseGray2 O-ReverseGray3 O-Binary0 O-Binary1 O-Binary2 O-Binary3 O-ReverseBinary0 O-ReverseBinary1 O-ReverseBinary2 O-ReverseBinary3	O-Rh,Ray	This parameter can be displayed only if the "5.20 Expert User" was set as "Yes".
5.22.	Rf Relay		O-Rf,Ryy	
5.23.	Rx Relay		O-Delta,SS	
5.24.	Rkl Relay		O-Rkl	
5.25.	Rlir Relay		O-Rlir	
5.26.	Rsvr Relay		O-Star,SS.	
5.27.	Rdo Relay		O-Door1Open	
5.28.	Rdc Relay		O-Door1Close	
5.31.	DN1	Cancel I-PowerDown I-818Y I-Door2-K20 I-Door2-DTS I-805 I-812 I-815 I-816	Cancel	
5.32.	DN2		Cancel	
5.33.	DN3		Cancel	
5.41.	OPT1A I/O 1	Cancel O-Rh,Ray O-Rf,Ryy O-Rvh O-Rx O-Rescue O-Rkl O-Rlir O-Door1Open O-Door1Close O-Door2Open O-Door2Close O-Inspection O-Fault O-Fault+Rev. O-Gong O-Star,SS Cont. O-Delta,SS Run O-Gray0 O-Gray1 O-Gray2 O-Gray3 O-ReverseGray0 O-ReverseGray1 O-ReverseGray2 O-ReverseGray3 O-Binary0 O-Binary1 O-Binary2 O-Binary3 O-ReverseBinary0 O-ReverseBinary1	Cancel	
5.42.	OPT1A I/O 2		Cancel	
5.43.	OPT1A I/O 3		Cancel	
5.44.	OPT1A I/O 4		Cancel	These parameters can be displayed only , "5.20.Expert User" parameter was set "Yes".
5.45.	OPT1A I/O 5		Cancel	
5.46.	OPT1A I/O 6		Cancel	

5.47.	OPT1A I/O 7	O-ReverseBinary2 O-ReverseBinary3 I-PowerDown I-818Y I-Door2-K20 I-Door2-DTS	Cancel	
5.48.	OPT1A I/O 8	I-805 I-812 I-815 I-816	Cancel	
5.49.	OPT1B I/O RO1	See parameter 5.21.	Cancel	
5.50.	OPT1B I/O RO2		Cancel	
5.51.	OPT1B I/O Din 1	See parameter 5.31.	Cancel	
5.52.	OPT1B I/O Din 2		Cancel	

P1-WELL SETTINGS:

1.1-LiftType RopeLift

1.1-Type of Lift: The type of lift previously set can be seen from this parameter and it is not user changeable. The type of lift can be changed by adjusting 11th group parameters to factory default settings.

1.2-ControlType FullCollective

1.2-Control Type: The control type of the lift can be chosen by this parameter.

- Simple Push Button: Only one call is accepted at the same time.
- Full Collective: Floor calls and cabin calls are wired to the same terminal.

If the common of outer calls are taken from 190, no collecting is done for landing calls. Collecting is done only for the cabin calls.

- 1 Button Down Collective: For landing calls, the lift stops only for down travel direction.
- 1 Button Up Collective: For lanfing calls, the lift stops only for up travel direction.
- 1 Button Full Collective: For landing calls the lift stops for both directions.
- 2 Buttons Full Collective: On each floor, two call buttons are available

Car Communication: Parallel		
Control Type	Max. Stops Numbers Without Expansion Card	Max. Stops Numbers With Expansion Card
Simple Collective	16	-
Full Collective	16	-
1 Button Down Collective	8	16
1 Button Up Collective	8	16
1 Button Full Collective	8	16
2 Buttons Full Collective	6	11

Car Communication: Serial		
Control Type	Max. Stops Numbers Without Expansion Card	Max. Stops Numbers With Expansion Card
Simple Collective	16	-
Full Collective	16	-
1 Button Down Collective	16	-
1 Button Up Collective	16	-
1 Button Full Collective	16	-
2 Buttons Full Collective	9	16

1.3-CarComm. Parallel

1.3-Cabin Communication: The connection type between birINCI and TeleKon serial communication board at the cabin can be establish through this parameter.

- **Parallel:** A one-by-one connection is done between birINCI controller and all buttons, sensors in the cabin.

• **Serial:** A serial connection between birINCI controller and cabin is establish through TeleKon serial communication board. Thus, serial communication system saves you money and time.

1.5- LiftGroups Simplex

- Duplex B Panel

1.5- Lift Groups: This parameter determines the lift groups

- Simplex : Control panel functions privately.
- Duplex A Panel : In double group operation, it functions as decider (master) panel.
- Duplex B Panel : In double group operation, it operates as 2nd (slave) panel.

1.6- AutoDoor-1 FullAutomatic

1.6- Automatic Door-1 (1.8- Automatic Door -2):

This parameter determines the type of the automatic door.

- None : This parameter is set if the lift has only swing door.
- Semi Automatic : The lift has only safety door in cabin and has only swing door on floor.
- Full Automatic : The lift has fully automatic floor and cabin doors.
- Full Automatic Open At Floor : This parameter is used for the case where the lift has full automatic door landing and cabin doors and full automatic door is desired to be standing open on the floor.
- Special Door : At birINCI, all doors at stops can be adjusted as “Semi Automatic” or “Full Automatic” or “Full Auto-Open” for per floors individually. To make this adjust, this parameter must be selected as “Special Door” at first, and then all doors must be adjusted individually for all floors

WARNING ! For the conformity to EN81-1/2 directives, the full automatic door MUST be adjusted to be closed on the floor. This parameter was intended for the countries which are not bound to EU standards.

1.7- SpecialDoor -1

1.7- SpecialDoor -1 (1.9-SpecialDoor -2): This parameter can be displayed only if the type of door was set as “special door”. By this parameter, all doors at stops can be adjusted as “Semi Automatic” or “Full Automatic” or “Full Auto-Open” for every floors individually.

1.10-SelectDoor

1.10- Select Door: This parameter can be displayed only if the “1.8-Automatic Door-2” parameter was set a different value from “None”.

P2-TIMES:

2.1-BusyTime 8 seconds

2.1-Busy Time: This parameter determines busy time.

2.2-WaitTimeAtStops 4 seconds

2.2-Wait Time At Stops: During collecting, before heading towards the other calls, the wait time on the stop is determined by this parameter.

2.3-LockWaitTime 10 seconds

2.3-Lock Wait Time: birINCI controller board lets the cam released at the end of a pre-determined time to prevent the cam to be harmed by staying pulled for a long time and a fault code is generated. This limit time can be set through this parameter.

2.4-DoorStayOpenedTi 6 seconds

2.4-Door Stay Opened Time: In lifts with fully automatic doors, after the lift's door opened the control card starts to count the time set through this parameter. At the end of this time the door is closed.

2.5-Photocell Time 20 seconds

2.5-Photocell Time: After K20 input is active, lift opens the door and resets the photocell time. When K20 inputs becomes passive, lift waits till the photocell time and closes the door.

2.6- OpenDoorFaultTim 20 seconds

2.6- Open Door Fault Time: At the end of the time which is determined by this parameter and if the door has not closed yet, controller comes to the out of service mode. If group operation is present, the calls are transferred to the other lift.

2.7- Parking Time
30 seconds

2.7-Parking Time: The wait time before heading towards the park stop can be set through this parameter.

2.8- SlowTravelTime
10 seconds

2.8- Slow Travel Time: This parameter is used to prevent slow winding of lift motor staying energized for a long time and being damaged. To prevent burning of the winding, motor is not allowed to be started for more than determined time.

2.9- FastTravelTime
15 seconds

2.9- Fast Travel Time: The maximum allowed time between two neighbor stops are determined by this parameter. For example, if a lift accidentally turned into the brake mode, as it will not be able to reach to the new stop, it can stop safely.

2.30- DriftingTime
0.0 seconds

2.30- Drifting Time: This parameter can only be displayed for the roped VVVF type lifts. In speed controlled control panels, to obtain more sensitive stopping, at the end of the second speed after this determined time a third speed command is given to the lift.

2.31-Rx Delay
1.5 seconds

2.31-Rx Delay: This parameter can only be displayed for the roped VVVF type lifts. In speed controlled control panels, the main contactors are desired to be released with a delay. This delay is set through this parameter.

2.60- StarDeltaTime
0.8 seconds

2.60- Star Delta Time: This parameter can only be displayed for the lift types set as star-delta hydrolic. The operation time of the motor during star connected starting can be set through this parameter.

2.61- ValveDelayAtRun
0.5 seconds

2.61- Valve Delay At Running: This parameter can only be displayed for hydrolic lifts with star-delta or soft start. To obtain a comfortable start-up, which depends also on the brand of the hydrolic unit, after the motor starts to operate in delta connected mode, the valve opening delay time having a value advised by the manufacturer can be set through this parameter.

2.62- -MotorDelayAtStop
0.4 seconds

2.62- Motor Delay At Stopping: This parameter can only be displayed for hydrolic lifts with star-delta or soft start. To obtain a comfortable stopping, which depends also on the brand of the hydrolic unit, after the exact floor level (JF) signal comes, the stop delay of the motor having a value advised by the manufacturer can be set through this parameter.

2.63- SoftStartContDelay
1.0 seconds

2.63- Soft Start Contactor Delay: This parameter can only be displayed for hydrolic lifts with soft start. As is well-known, to reduce mechanical stres and vibrations and high inrush current during start-up, the motors are started with soft starters. Most of the soft starters on the market, has soft stop feature besides the soft start feature. To be able to use this function of the starters, the contactor at the output of the starter can be delayed for a period of time set through this parameter. Stopping time can be set on the soft starter.

2.64- ValveDelayAtStop
0.0 seconds

2.64- Valve Delay At Stopping: This parameter can only be displayed for hydrolic lifts with star-delta or soft start. To obtain a comfortable stopping, which depends also on the brand of the hydrolic unit, after the exact floor level (JF) signal comes, the delay time to shut off the valves can be set through this parameter.

2.65-StopDelayAtInpec.
0.0 seconds

2.64-Stop Delat At Inspection Speed: This parameter can only be displayed for hydrolic lifts with star-delta or soft start. With this parameter, you can adjust the inspecton speed in your hydrolic unit. When this parameter is set to a value different from zero seconds, both “slow” and “fast” relays switch on at inspection. Thus, the lift moves with inspection speed.

P3-STOP SETTINGS:

3.1- NumberofStops 16

3.1- Number of Stops: This parameter determines the number of stops on the lift. Thus, assigning a record for a larger number than the determined stop number is prevented during the installation and maintenance. Number of stops has to be set for particularly the lifts which use “counter” as floor selector. birINCI controller

board can operate for up to 16 stops without requiring any expansion board, in which control type is set as simple control or full collective. For the lifts, in which the control type was set as one button down collective, one button up collective or one button full collective, it can operate for up to 8 stops without expansion call card and 16 stops with expansion call board.

For the lifts, in which control type was set as 2 button full collective mode, it can operate for up to 6 stops without expansion call card and 11 stops with expansion call card. If the serial communication system is used on the cabin, you can use birINCI controller up to 16 stops at the 2 button full collective mode. Please check the drawings for details.

3.2- DisplayOutputType 7 Segments Display

3.2- Display Output Type (3.3-Telekon Display Output Type):

birINCI controller board can give the outputs of gray, inverted gray, binary, inverted binary outputs, as well as classical 7 segments from display outputs.

Hence, the system operation is possible without needing any converter for different buttons (Display output signals are active low signals.)

- 7 Segments Display : Classically used parallel wired connection system.
- Gray Code : From a,b,c,d outputs, M0,M1,M2 and M3 gray code outputs respectively can be used.
- Inverted Gray : The inverse of gray code can be obtained from a,b,c,d outputs.
- Binary Code : From a,b,c,d outputs, B0,B1,B2 and B3 binary code outputs can be used.
- Inverted Binary : The inverted binary code can be obtained from a,b,c,d outputs.

3.4-TeleKonReserveOutputTyp 7 Segments Display

3.4-TeleKon Reserve Output Type: When using TeleKon board, reserve outputs can give gray, inverted gray, binary, inverted binary outputs, as well as classical 7 segments from display outputs. Hence, the system operation is possible without needing any converter card for different

buttons. These output signals are active high signals.

- Gray Code
- Inverted Gray
- Binary Code
- Inverted Binary

3.5-DisplaySettings

3.5-Display Settings: This parameter can only be displayed if “3.2-Display Output” Type and “3.3-Telekon Display Output Type” parameters are set 7 segments display. For each stop, display settings can be set through this parameter.

When you are enter this menu for adjust parameters, the bottom line of the screen displays “Stop:” Disp:0”. To change the stop number, while it blinks up-down buttons are used to reach the desired stop. Then, Enter buton is pressed to make the display value blink. Up-down buttons again used to make desired digital adjustment. To make adjustment for another stop, Esc button is pressed and stop number is made blinking. When the stop number is blinking, pressing the Esc button, or similarly, when display number is blinking, pressing the Enter buton saves the changes and menu is exited.

3.6-Fire Stop Cancel

3.6-Fire Stop: If this function is activated, when the fire contact is closed and 24V is applied to the 816 function, the lift automatically directed to the lift stop determined by this parameter. If during the movement of the lift, the fire stop is on the movement direction, all calls are erased and the lift instantly directed to the fire

stop. If the lift is moving on the opposite direction, it stops on the first stop. All calls are erasen. It moves towards the lift stop without opening the door. On the lift stop the lift waits with its doors open and calls are not responded. In that situation, the lift can only move by VIP or inspection buttons. When 24V power is cut from the 816 function, the lift turns back to its normal operating mode. If you do not want to use this feature, set this parameter as “cancel”.

3.7-Parking Stop Cancel

3.7-Parking Stop: If the lift stays in standstill during the parking time parameter, the lift gives a call to parking stop by itself which can adjustable by this parameter. If you do not intend to use this feature, set this parameter as “Cancel”.

P4-SHAFT INFO:

4.1- SensorType GrayCode

4.1-Sensor Type: As well as operating with four bistables classically ordered in gray code, birINCI controller can also operate with one bistable ordered in counter type. And also, it can work by taking feedback from encoder. By this parameter, you have to info the the control card about the used system.

WARNING! In the lifts using counter type magnet order, make sure that 817 lower limit breaker switch, and 818 higher limit breaker switch operates correctly

- Gray code : Classical gray coded magnet ordered operating system.
- Counter : Counter type magnet ordered operating system.
- Encoder : Encoder feedback operationg system.

4.2-PositionReset No

4.2-Position Reset: In systems operating in counter type, even in case of grid-line power interrupt, the latest stop lift stands are kept in memory. But ins some special circumstances, when power is recovered, a position reset may be desired. For example, in lifts with battery powered rescue systems, position reset may be done

by activating this parameter. In systems using gray code, this menu is not displayed because position reset is not needed.

- No : Do not apply position reset operation.
- Yes : Apply position reset operation.

4.3- NeighborStopsNum 15

4.3-Neighbor Stops Number: birINCI control system can set two different slow down points for neighbor and distant calls for the lifts with speeds more than 1,0m/sec. For neighbor calls, the speed of the lift must be set to approximately 1,0m/sec and for neighbor calls the lift starts to slow down 1 magnet prior, in regard to the information coming from M1 magnet. For distant calls, it starts to slow down on the magnet set through “4.4-Neighbor Stops Number”. Therefore, the point to start slow down can be determined by the following manner.

$A = [\text{Target stop}] - [\text{The stop cabin is parked}]$

If A is lower or equal to the neighbor stop number, the lift moves with a speed of 1,0m/sec. If number of neighbor stops is larger than A, the lift runs at rated linear speed. You can find detailed information at technical drawings.

NOTE: In speed controlled panel systems, in which the speed is less than 1m/sec and in classical double speed systems, there is no need to place M0 magnet. Placing only M1 magnet is enough. However, “4.3-Number of Neighbor Stops” parameter has to be set as “CANCEL”.

P5-OTHER SETTINGS:

5.1-Auto.ResetKrc No

5.1-Automatic Reset KRC: For the conformity to EN81-1/2 directives, the positions of the contactors used in control panel are controlled by birINCI. However, for the countries in which Europe standarts are not applied, KRC has automatic reset function. This function can be set through this parameter

WARNING ! : For the conformity to EN81-1/2 directives, it has to be set as “no”.

- Yes : Automatic reset function is on.
- No : Automatic reset function is off.

5.2- Auto.ResetMaxLowS No

5.2-Auto Reset Max. Low Speed Time Fault: For the conformity to EN81-1/2 directives, after the maximum low speed fault ocured, the lift must be blocked. For the countries in which Europe standards are not applied, low speed movement time fault has automatic reset function. It can be set through this parameter.

WARNING ! : For the conformity to EN81-1/2 directives, it has to be set as “no”.

- Yes : Automatic reset function is on.
- No : Automatic reset function is off.

5.3-Auto.ResetMaxHighS
No

- Yes : Automatic reset function is on.
- No : Automatic reset function is off.

5.4-PhaseControl
Yes

- Yes : Phase Protection Control is on
- No : Phase Protection Control is off

5.5-StopClearCall
Cancel

5.5-Stop Clear Call: When the “Stop” info is not given, you can decide to clear or not to clear existing calls by this parameter.

- Yes : Clears existing calls.
- No : Do not clear existing calls.

5.6-Animation
Cancel

5.6-Animation: You can adjust the 7 segment displays reflecting the state of floors more visual with this parameter.

- Yes : Visual display active.
- No : Visual display pasive.

5.20-Expert User
No

5.20-Expert User: birINCI control board software is built on a very flexbile architecture to meet the demands of the field. You can adjust the Rh, Rf, Rx, Rkl, Rlir, Rsvr, Rdo, Rdc output relays and optional inputs DN1, DN2, DN3. For this, you have to choose this parameter as “Yes”. When existing from the Menu, this parameter returs automatically “No”.

5.21-Rh Relay
O-Rh,Ray

5.21-Rh Relay:

5.22-Rf Relay:

5.23-Rx Relay:

5.24-Rkl Relay:

5.25-Rlir Relay:

5.26-Rsvr Relay:

5.27-Rdo Relay:

5.28-Rdc Relay:

5.49-Opt1B RO 1:

5.50-Opt1B RO 2:

These relays functions can be adjusted to the desired. Alternatively functions are listed below. The names of functions in the first place “O” character means the function is “Output” and “I” character means the function is “Input”. In this parameter group, you can only display the output functions. You can find the table containing the parameters of the macro outputs for the functions assigned to the factory settings using application macro.

5.31-DN1
cancel

5.31-DN1:

5.32-DN2:

5.33-DN3:

5.51-Opt1B Din 1:

5.52- Opt1B Din 2:

The function of the entries can be adjusted to the desired. Alternatively functions are listed below. The names of functions in the first place “O” character means the function is “Output” and “I” character means the function is “Input”. In this parameter group, you can only display the input functions. You can find the table containing the parameters of the macro outputs for the functions assigned to the factory settings using application macro.

5.41-Opt1A I/O 1
cancel

5.41-Opt1A I/O 1:

5.42- Opt1A I/O 2:

5.43- Opt1A I/O 3:

5.44- Opt1A I/O 4:

5.45- Opt1A I/O 5:

5.46- Opt1A I/O 6:

5.47- Opt1A I/O 7:

5.48- Opt1A I/O 8:

These input/output functions can be adjusted to the desired. Alternatively functions are listed below. The names of functions in the first place “O” character means the function is “Output” and “I” character means the function is “Input”. In this parameter group, you can display both input and output functions.

NOTE: After setting the I/O as input or output, make sure that OPT1A cards related I/O jumper is positioned correctly. Otherwise, OPT1A card may be damaged.

- Cancel : Related output is not used.
- O-Rh,Ray : Related output is linked, Rh or Ray function
- O-Rf,Rfy : Related output is linked Rf or Rfy function.
- O-Rvh : Related output is linked Rvh (very high speed) function
- O-Rx : Related output is linked Rx function.
- O-Recue : Related output is linked Rescue function
- O-Rkl : Related output is linked Rkl function.
- O-Rlir : Related output is linked Rlir function.
- O-Door1Open : Related output is linked Door1Open function
- O-Door1Close : Related output is linked Door1Close function.
- O-Door2Open : Related output is linked Door2Open function.
- O-Door2Close : Related output is linked Door2Close function.
- O-Inspection : Related output is linked Revision function.
- O-Fault : Related output is linked Fault function.
- O-Fault+Rev. : Related output is linked Fault+Inspection function. Any time a function is active, this output is active
- O-Gong : Related output is linked Gong function.
- O-Star,SS Cont. : Related output is linked Star or SS contactor function.
- O-Delta,SS Run : Related output is linked Delta or Softstarter Run function.
- O-Gray0 : Related output is linked Gray0 function.
- O-Gray1 : Related output is linked Gray1 function.
- O-Gray2 : Related output is linked Gray2 function.
- O-Gray3 : Related output is linked Gray3 function.
- O-ReverseGray0 : Related output is linked ReverseGray0 function.
- O-ReverseGray1 : Related output is linked ReverseGray1 function.
- O-ReverseGray2 : Related output is linked ReverseGray2 function.
- O-ReverseGray3 : Related output is linked ReverseGray3 function.
- O-Binary0 : Related output is linked Binary0 function.
- O-Binary1 : Related output is linked Binary1 function.
- O-Binary2 : Related output is linked Binary2 function.
- O-Binary3 : Related output is linked Binary3 function.
- O-ReverseBinary0 : Related output is linked ReverseBinary0 function.
- O-ReverseBinary1 : Related output is linked ReverseBinary1 function.
- O-ReverseBinary2 : Related output is linked ReverseBinary2 function.
- O-ReverseBinary3 : Related output is linked ReverseBinary3 function.
- I-PowerDown : Related input is linked power down input. Used for rescue function activation.
- I-818Y : Related input is linked 818Y input. Fast lifts limit switch. (See diagrams.)
- I-Door2-K20 : Related input is linked Door2-K20 input.
- I-Door2-DTS : Related input is linked Door2-DTS input.
- I-805 : Related input is linked 805 input (full load function)
- I-812 : Related input is linked 812 input (VIP function)
- I-815 : Related input is linked 815 input (quake function)
- I-816 : Related input is linked 816 input (fire function)

6. OTHER FEATURES

Press UP - DOWN
c01→InspectCabin

Press UP - DOWN
c02→InspectWell

Inspection: birINCI control card senses the lift is in inspection from two terminal points namely 867 and 869. 867 come from inspection switch in the panel, while 869 comes from inspection switch over the cabin. If 24V is not present in any of these connectors, that means the lift is in inspection. The priority is always on the cabin. The screen shows whether the lift is taken to inspection from the panel or from the cabin.

When the lift is taken to inspection (i.e. 24V power is cut in connector 869 or 867) maintenance operation takes place. In that case, if the lift is moving it halts and all available calls are erased, out of service lamp turns on. Using inspection down (500) and inspection up (501) buttons, the lift can be moved upwards and downwards in low speed. The movement of the lift in inspection is limited by lower limit bistable switch at the first stop and upper limit bistable switch at the last stop. When terminal 867 and 869 are supplied with 24V, the lift returns to its normal operation

Over Load: If the cabin weights more than allowed, the over load contact in cabin is turned on and 24V is supplied to the connector numbered 804. Microcontroller does not let the lift to move. In that case, LCD screen displays “F5.OverLoad” warning. Cabin lamp is left turned on and if the automatic door type is chosen fully automatic, it is ensured to be stayed open. When the over load contact is turned on, the movement is re-allowed. During movement, over load control is not implemented.

Full Load: If the cabin weight is in full capacity, full load contact is switched on and 24V is supplied to terminal 805. In that case, the microcontroller ensures that the lift does not stop for the landing calls, because there is no free space for new passengers at the cabin, but call information is preserved.

VIP : If the watman switch is turned ON and thus 24 Volt is supplied to the 812 function, all calls are erased and from now on only cabin calls are accepted. System returns to normal mode when the VIP switch is turned off.

Contactor control (KRC): 24V signal, which is serially connected through normally closed contacts of contactor providing movement, is connected to birINCI controller KRC terminal. Therefore, birINCI checks that contactors operate well when the lift stopped or moved. In case a fault occurs, system halts instantly.

7. FAULT CODES

birINCI lift controller system detects a large number of faults, shows them on the screen and assists the user solving the problem easily. The fault codes shown in screen are explained here.

F1.StopFault
d02→h-- 100=25V

F1.Stop Fault: Stop circuit does not conduct. When this fault occurs the lift is instantly halted and all calls are erased. The lift returns to its normal operation when stop circuit is ok.

F2.DoorCantClose
d02→h-- 100=25V

F2.Door Can't Close: If the door is left open for a period of time longer than determined by “P2.5-Open door fault time” parameter, control card erases all records, gives this fault and out of service lamp signals. The lift returns to its normal operation when the door is closed.

F3.PTC Fault
d02→h-- 100=25V

F3.PTC Fault: Motor's temperature is continuously monitored by a temperature sensor attached to the coils of the lift's motor. If the temperature limit value is exceeded while the lift is moving, the control system halts at the nearest stop in moving direction and existing records are cancelled. New records are not accepted until the temperature decreases below the limit value.

F4.KRC Fault
d02→h-- 100=25V

F4.KRC Fault: A signal terminal connected through normally closed contacts of contactors is connected to KRC. Therefore, in case of any fault such as sticking of contactor terminals, this fault is generated and new call is not accepted. If automatic reset KRC parameter was set as “Yes”, after the fault is cleared when the KRC signal returns to normal and lift starts to service. If the parameter was set as “No”, the lift is shut down until technician fixes the problem and reset the system.

F5.OverLoad
d02→h05 100=25V

F5.Over Load: If the weight of the cabin is more than allowed, over load contact is turned on and 24V reaches to the connector numbered 804. birINCI does not let the lift to move.

F6.No 818 LimitSwitch.
d02→h05 100=25V

F6.No 818 Limit Switch: When higher limit bistable switch informs that the lift is on the latest floor, running of the lift upward is not allowed. If the lift is not on the latest floor, check the higher limit switch and connections..

F7.No 817 LimitSwitch
d02→h05 100=25V

F7.No 817 Limit Switch: When lower limit bistable switch informs that the lift is on the first floor, the running of the lift downward is not allowed. If the lift is not on the lowest floor, check the lower limit switch and connections.

F8.MaxLowSpeedTime
d02→h-- 100=25V

F8.Max. Low Speed Time: It determines the maximum allowed time for the lift to move in low speed. If the lift can not reach to the new stop in this time the lift instantly stops. If automatic reset parameter of low speed fault was set as "Yes", fault is reset and lift starts to service. If this parameter was set as "No", the lift can

not in service until technician fixes the problem and reset the system

F9.MaxHighSpeedTime
d02→h-- 100=25V

F9.Max. High Speed Time: It determines the maximum allowed time for the lift to move from one floor to the other at high speed. If the lift can not reach to the new stop in this time the lift instantly stops. If automatic reset parameter of high speed fault was set as "Yes", fault is reset and lift starts to service. If this parameter

was set as "No", the lift can in service until technician fixes the problem and reset the system.

F10.M0 Fault
d02→h-- 100=25V

H10.M0 Fault:

H11.M1 Fault:

H11.M1waitedJFchange

H12.M2 Fault:

H13.M3 Fault:

This fault occurs in case the sensed floor selection information is different than the expected, during the travel of the lift in high speed. The lift instantly stops and calls are erased.

F14.JFwaitedM0change
d02→h-- 100=25V

H14.JF waited M0 change:

H15.JF waited M1 change:

H16.JF waited M2 change:

H17.JF waited M3 change: In double speed lifts, while travelling in low speed, the stopping of the lift at the precise floor level is accomplished by cutting 24V power from bistable power switch numbered 142. During travelling of the lift in low speed, if different magnetic information comes while waiting the information from JF to stop, "JF fault" occurs. The lift is stopped and calls are erased.

F18.OSB Fault
d02→h-- 100=25V

F18.OSB Fault: Door pre-opening and levelling feature when the door is open, OSB magnet and OSB arm must be installed. As soon as the lift gets out of the lock opening zone, OSB information must be terminated. If it reaches to the new stop with uninterrupted the OSB information, this fault is generated and system

does not accomplish door pre-opening and door open levelling functions because of safety reasons.

F19.LevellingTravelTime
d02→h-- 100=25V

F19.Levelling Travel Time Fault: A time duration of 10 seconds has been determined for system to be levelled. If in this duration, the levelling operation has not been completed, system generated a fault and cancels the levelling process.

F20.LockFault
d02→h-- 100=25V

F20. Lock Fault: birINCI controller board lets the Rlir cam relay turned on and wait the lock to be energized for a duration determined by "P2.3-LockWaitTime. If the lock signal is not come at the end of this time, Rlir relay switches off for a second and it switches on again. It tries three times for the lock to get energized. If

it still does not get energized, it signals this fault, erases all calls and turns to the standby mode

F21.CarCommFault
d02→h-- 100=25V

F21.CarCommunication Fault: When "1.3-Car Communication" parameter is chosen "Serial", if there is no communication with Telekon card, this fault occurs.

8. FREQUENTLY ASKED QUESTIONS (FAQ):

- *No movement during inspection.*

When the system was taken to inspection using inspection power switch placed on the panel, signal numbered 867, when it was taken to inspection using inspection power switch in cabin, signal numbered 869 and 867 must turn off. birINCI displays whether the lift was taken to inspection from the cabin or from the panel. Inspection movement buttons turn on signals numbered 500 and 501. If they are not turned on, check the 867 terminal.

Limit switches should not prevent the movement at least one direction. Thereby, 817 (KSR1) and 818 (KSR2) limit LED's on the board must be on. Else, limit power switches must be checked.

Make sure that 120 (Stop), 130 (Door contact), 140 (Lock) circuits conduct. (All signals on birINCI must be on).

- *The lift stops without decelerating.*

If the same problem is present in every stop, probably precision stop magnetic switch (JF) is damaged. When the lift starts decelerating, signal 142 in the card must be on. If the problem exists in only one stop, the magnets and the distance between magnets and magnetic switches must be checked.

- *The lift hits above.*

Check that upper limit switch 818 (KSR2) circuit functions well. In last stop's deceleration level 818 signal in the card must be off. Else, deceleration distance, tubes and magnets must be checked.

Floor stopping magnetic 142 may be stucked. Signal 142 must be off in precise floor levels. If not, check the magnetic switches and magnets.

- *The lift hits below.*

Check that lower limit switch 817 (KSR1) circuit functions well. In the last stop's deceleration level, 817 signal in the card must be off. Else, deceleration distance, tubes and magnets must be checked.

Floor stopping magnetic 142 may be stucked. Signal 142 must be off in precise floor levels. Else, check the magnetic switches and magnets.

- *When giving one call, all calls are turn on.*

Probably, the common terminal of signal lamps are connected to each other, but 100 (+24V) is not connected to the connector. Thereby, buttons loop through common terminal.

- *Position count gets mixed.*

Check that number of stops and digital settings are adjusted correctly. Make sure that 817 and 818 limit switches are work properly. By monitoring M1 signal during movement, check if any faulted signal is generated. M1 must be blinking at least once in each stop. If any problem is observed, magnetic switch may be too far from the magnets, it may be damaged or a magnetisation in the rails may have occurred.

- *M1 signal is blinking but the card does not count the stops.*

The stops can only be counted correctly, only when 817,818 signals are on. Therefore, 817, 818 signals are supposed to be on, except for upper and lower limits. Keep in mind that when the lift is moved by switching the contactors manually, the counting can not be done as the board does not know which direction the lift moves.

9. IMPORTANT CONSIDERATIONS IN INSTALLATION OF THE PRODUCT:

Panel manufacturer company producing birINCI controller board and lift control panel must have sufficient knowledge and experience on EN-81 standard, other norms, regulations and directives dealing with this subject. In case the instructions given here have not been complied, ASRONIK does not assume responsibility in appropriateness of the produced panel to the EN-81 standards. Installation of birINCI controller board and double speed lift control panel is shown in schematics. The important considerations throughout the manufacturing of control panel are explained below item by item.

- A minimum space of 9mm must exist between birINCI controller board and control panel surface. birINCI must be fixed on 4 holes at least in each corner.
- For EMC compliance, birINCI must be laid away from the contactors.
- 24VDC signal cables and other cables must be placed separately.
- Some conductive particles such as iron powder produced during installation of all electronic cards into the panel must be carefully cleaned. Else, these particles may cause damage by falling over the controller or other equipment during transport or installation.

- Connections between birINCI and terminal board must be implemented as shown in the schematics. To avoid any mistake, connector names are written in large typesize.
- The contactors must be AC3 class as described in EN60947 and they must be rated in regards to motor power. The connections must be done as shown in the schematics.
- The auxiliary contacts placed over the contactors must comply with EN60947 standard and it must be assured that contactors open and close at the same time with power contacts.
- It must be assured that damping circuits (suitable for RC circuit-varistor or capacitor) are connected to contactor coil terminals.
- Rectifier diode connections of brake and cam must be done as shown in the schematics and they must be electrically isolated.
- For long and healthy operation, brake coil is needed to be powered from the power contacts of RU1 and RU2.
- Control panel inspection switch connection must be done as shown in the schematics. By means of this connection, when the inspection switch over the cabin is turned ON, inspection buttons on the control panel can not move the lift.
- Cable contactors, connected to KRC connector that is used to check whether contactors operate well must be serially connected through normally closed contacts. If possible, these normally closed contacts should be fixed on contactor, instead of additional auxiliary contacts.
- Following the completion of control panel production, manufacturer must test it by checking all connections.

10. IMPORTANT CONSIDERATIONS IN CONNECTION OF CONTROL PANEL AND STARTUP

The information given here only aims a general description and recommendation. ASRONIK in any circumstance does not assume responsibility for any damages and accidents caused by the descriptions given here. The product must only be installed and operated by qualified, trained technicians who have knowledge on EN-81 standard and practices. The operation of the lift must be carried out only after assuring all precautions.

10.1- Important Considerations in Connecting Control Panel to Lift System

- The connections between control panel and motor, cabin and well must be carefully implemented in accordance with the schematics.
- Contactor, automatic fuse, motor protection switch and thermic relay must be rated in accordance with the motor power.
- Neutral and ground cables must be installed separately and panel chassis must be connected to the ground properly.
- The lift must have all the stopping mechanisms mentioned in EN-81 standard and these mechanisms' contacts must be connected to control panel carefully. These connections to safety contacts must be done in accordance with the schematics properly. All safety contacts used must be in compliance with EN60947 standards.

10.2- Important Considerations on Preparing the System Become Operational

- Check that the connections between control panel and lift system are consistent with the schematics.
- Using a measuring device check whether any short-circuit exist between connections.
- Turn ON the inspection switch in control panel.
- Turn ON motor protection switch and power the panel.
- Check that 02-Out of service led in birINCI control card and out of service leds on floor buttons are operating.
- By checking the leds on control card (which are labelled 9V and 24V) make sure that supply voltages exist. Measuring between 100 and 1000 connectors, a voltage should read between 20...26VDC.
- Make sure that all safety contacts are connected in consistence with the schematics and make sure they operate correctly. By checking the leds on control card (120,130,140), make sure that safety contact inputs are active.
- In order to be able to move the cabin in both ways, temporarily connect lower and upper stopper bistable switch inputs with the connector numbered 100. In that case, as the lower and upper stopper bistable switches will not be able to perform their duties, give extreme care during working in the lowest and highest floors.
- As the control panel inspection switch is ON, cabin travels only in low speed. Make sure that low speed coil of the motor is correctly connected, by moving the cabin using up and down buttons placed on control panel. If the pressed button and the travel direction of the cabin do not match, exchange the connection of any two of the U2,V2,W2 terminals on the motor between low speed coil and control panel.
- While the cabin is travelling, measure the voltages between FR+,FR- and CAM+,CAM- terminals. The values should read between 180...240VDC.
- Afterwards, move the cabin in one of the interval floors and turn ON the inspection switch on the cabin. In that case, cabin can not be conveyed using inspection buttons on the control panel.

- Move the cabin to the lowest stop. Place the magnets of gray code, floor stopper and upper and lower limit bistable switches in consistent with the magnets.
- By monitoring stop numbers in LCD screen or in display placed over the control card, check that the ordering has been done correctly.
- Remove the connecting link between lower and upper stopper bistable switch inputs applied through the connector numbered 100.
- Place the cabin in one of the interval floors and turn OFF the over-cabin inspection switch.
- Turn OFF the control panel inspection switch. Therefore, lift returns to its normal operation state and OUT OF SERVICE leds on floor buttons turn off.
- Give a call to the lift and make sure it travels in expected direction in high speed. If the lift does not travel in the expected direction, reverse only two terminals (U1,V1,W1) of motor's connection between high speed coil and control panel.
- In each floor, give calls for both directions and check that the cabin stops in exact floor level. If needed, re-arrange the positions of stopper bistable switch magnets.



In normal operation state of the lift, it must be assured that lower and upper bistable switch inputs are not linked through the connector numbered 100.



Check that all safety contacts operate correctly before the lift returns to its normal operating mode..



Never link safety circuits (120 emergency stopping, 130 door, 140 lock).

11. MAINTENANCE AND CLEANING OF birINCI CONTROLLER BOARD:

- It does not need periodical maintenance.
- If any faulted operation is detected, it must be sent to the manufacturer firm for test and repair.
- It must be kept free of water and any other kind of liquids.
- If needed, the dust over the control card must be cleaned using low pressure air.

12. SAFETY NOTICES:

Averting any accident risks in a lift without having user risk (in a lift having security measures such as automatic door complying with standards and over-load system) is in responsibility of subsidiary companies and installation and maintenance companies. Some fundamental safety subjects concerned with lift control system are touched on below.



For the lift system to be fully complied with EN81 standards, control panel of controller board and electrical connections must be appropriate. Our company warranties that controller board is complied to the standards. However, installer company is responsible for inner and outer connections of control panel and other electrical connections.



Safety circuit of birINCI controller operates from 220VAC. Motor start-up contactors are directly supplied from the return terminal of safety circuit. Therefore, in safety circuit, unintentional operations besides control are prevented.



The terminal numbered 11 in birINCI control card have to be connected to the return terminal of safety circuit (140-lock return). Otherwise, risks grow. However, if controller board does not sense the return terminal of safety circuit, it halts the lift instantly.



Do not connect safety circuit through any relays or contacts in any way directly or indirectly except for safety arrangements.



Hide the connectors that you attached door contact and lock circuits to the door apertures by avoiding any contact to door chassis. Keep in mind that during the building cleaning water may drain through the cabin. Therefore, it may be necessary to implement safety connections in isolated channels. Otherwise, they must be isolated with isolation bands.



Door frames must be assured to be connected to the ground. In case the grounding has not been installed, there is a risk that safety circuit is indirectly linked through door chassis.



It must be assured that the contactors are not released manually. In that case, safety circuits and controller board can not prohibit the lift's movement.



When the 24 VAC signal fuse is damaged or it permanently remained on, it must be ensured it is not shunted. This may damage birINCI controller board.



To make sure that cabin lamp stays on when thermic relay in the panel is switched off, supply voltage of cabin lamp (1F) must be directly connected to the electric panel on machine room.



The safety circuit may lose its functionality by subjecting to wear and tear and exposing to dust, dirt and oil. In periodical maintenances remember to check functions of door contacts and locks. Consider important that all these precautions are necessary to operate our lifts safely and therefore reduce any accident risk.

AB UYGUNLUK BEYANI
EC- DECLARATION of CONFORMITY

İMALATÇI / MANUFACTURER :
ASRONİK ASANSÖR ve ELEKTRONİK LTD.ŞTİ.

TİP / TYPE :
birİNCİ

İMALATÇI ADRESİ / MANUFACTURER ADDRESS :
Fevzi Çakmak Mah. 10569. Sok. No:26
Karatay / Konya / Türkiye

ÜRETİM YILI / YEAR OF MANUFACTURE :
Etiket Üzerinde / See data label on product

ÜRÜNÜN ADI / PRODUCT NAME :
Asansör Kumanda Kartı / Lift Controller Board

SERİ NO / SERIAL NUMBER :
Etiket Üzerinde / See data label on product

UYGULANAN STANDARTLAR / THE FOLLOWING STANDARTS :
TS EN 81-1+A3, EN 81-2+A3

UYGULANAN DİREKTİFLER / THE FOLLOWING DIRECTIVES :
Asansör Direktifi 95/16/AT / Lift Directive 95/16/EC

Üzerinde seri numarası yer alan ürün için, kullanıcıya
teslim edilen kullanım kılavuzundaki şartlara
uyulması durumunda yukarıda belirtilen standartlara
ve direktiflere uygunluğunu beyan ederiz.

*We declare eligibility of above mentioned standards
and directives to comply with the represented
conditions on the user manual for the serial number
on the product.*

ONAYLANMIŞ KURULUŞ / NOTIFIED BODY
LiftInstituut B.V.
Buikslotermeerplein 381 P.O Box 36027
1020 MA Amsterdam / Netherlands

FİRMA SORUMLUSU / RESPONSIBLE OF COMPANY : Elk.Elt.Yük.Müh. Zafer Dedeoğlu

YER-TARİH / PLACE-DATE : KONYA / TÜRKİYE / 07.12.2012

YETKİLİ İMZA / LEGALLY BINDING SIGNATURE :

TYPE-EXAMINATION CERTIFICATE

Issued by Liftinstituut B.V.

Certificate nr. : NL12-400-1002-172-01 Revision nr.:

Description of the product : PCB; Controller board for electric and hydraulic lifts with monitoring circuit for safety chain

Trademark, type : ASRONiK, birINCI Liftcontroller Board V2.02

Name and address of the manufacturer : ASRONiK Asansör ve Elektronik Ltd.Sti.
Fevzi Çakmak mah. 10569. Sok. No:26
Karatay / Konya / Türkiye

Name and address of the certificate holder : ASRONiK Asansör ve Elektronik Ltd.Sti.
Fevzi Çakmak mah. 10569. Sok. No:26
Karatay / Konya / Türkiye

Certificate issued on the following requirements : EN 81-1:1998+A3:2009, article 9.11.3, 9.11.9, 14.1.1, 14.1.2.1.3, Annex F.8 and H; EN 81-2:1998+A3:2009 art. 9.13.3, 9.13.9, 14.1.1, 14.1.2.1.3, Annex F.8 and H

Test laboratory : None

Date and number of the laboratory report : None

Date of type-examination : November 14 and 15, 2012

Annexes with this certificate : Report belonging to the type-examination certificate nr.: NL12-400-1002-172-01

Additional remarks : The printed circuit board IS NOT subjected to the laboratory tests according to annex F.6 of EN 81-1 / EN 81-2.

Conclusion : The printed circuit board meets the requirements referred to in this certificate taking into account any additional remarks mentioned above.

Issued in Amsterdam
Date of issue : 06-12-2012

ing. A.J. van Ommen
Manager Business Unit
Certification

Certification decision by

TYPE-EXAMINATION CERTIFICATE

Issued by Liftinstituut B.V.

Certificate nr. : NL12-400-1002-172-03 Revision nr.: -

Description of the product : PCB for electric and hydraulic lifts with door bridging circuit, also applied as detection of unintended movement of the car (UCMP)

Trademark, type : ASRONiK, KSK Board V1.01

Name and address of the manufacturer : ASRONiK Asansör ve Elektronik Ltd.Sti.
Fevzi Çakmak mah. 10569. Sok. No:26
Karatay / Konya / Türkiye

Name and address of the certificate holder : ASRONiK Asansör ve Elektronik Ltd.Sti.
Fevzi Çakmak mah. 10569. Sok. No:26
Karatay / Konya / Türkiye

Certificate issued on the following requirements : EN 81-1+A3 art. 9.11.7, 14.1.1, 14.1.2.1.3 annex F.8.3 and H
EN 81-2+A3 art. 9.13.7, 14.1.1, 14.1.2.1.3 annex F.8.3 and H

Test laboratory : None

Date and number of the laboratory report : None

Date of type-examination : November 14 and 15, 2012

Annexes with this certificate : Report belonging to the type-examination certificate
nr.: NL12-400-1002-172-03

Additional remarks : The printed circuit board IS NOT subjected to the laboratory tests according to annex F.6 of EN 81-1 / EN 81-2.
Max. response time KSK : 15 msec

Conclusion : The printed circuit board meets the requirements referred to in this certificate taking into account any additional remarks mentioned above.

Issued in Amsterdam
Date of issue : 06-12-2012

ing. A.J. van Ommen
Manager Business Unit
Certification

Certification decision by

TYPE-EXAMINATION CERTIFICATE

Issued by Liftinstituut B.V.

Certificate nr. : NL12-400-1002-172-02 Revision nr.:

Description of the product : Complete Lift Control Panel for electric and hydraulic lifts

Trademark, type : ASRONiK, birINCI Lift Control Panel

Name and address of the manufacturer : ASRONiK Asansör ve Elektronik Ltd.Sti.
Fevzi Çakmak mah. 10569. Sok. No:26
Karatay / Konya / Türkiye

Name and address of the certificate holder : ASRONiK Asansör ve Elektronik Ltd.Sti.
Fevzi Çakmak mah. 10569. Sok. No:26
Karatay / Konya / Türkiye

Certificate issued on the following requirements : EN 81-1:1998 + A3:2009 / EN 81-2:1998 + A3:2009

Test laboratory : None

Date and number of the laboratory report : None

Date of type-examination : November 14 and 15, 2012

Annexes with this certificate : Report belonging to the type-examination certificate
nr.: NL12-400-1002-172-02

Additional remarks : The control panel IS NOT subjected to the laboratory tests
according to annex F.6 of EN 81-1/2+A3

Key parameters for detecting UCM:

Detection distance (variable) : door-zone vane/magnet

Max. response time incl. contactors : 60 ms

Speed and distance travelled : to be calculated

Conclusion : The printed circuit board meets the requirements referred to in
this certificate taking into account any additional remarks
mentioned above.

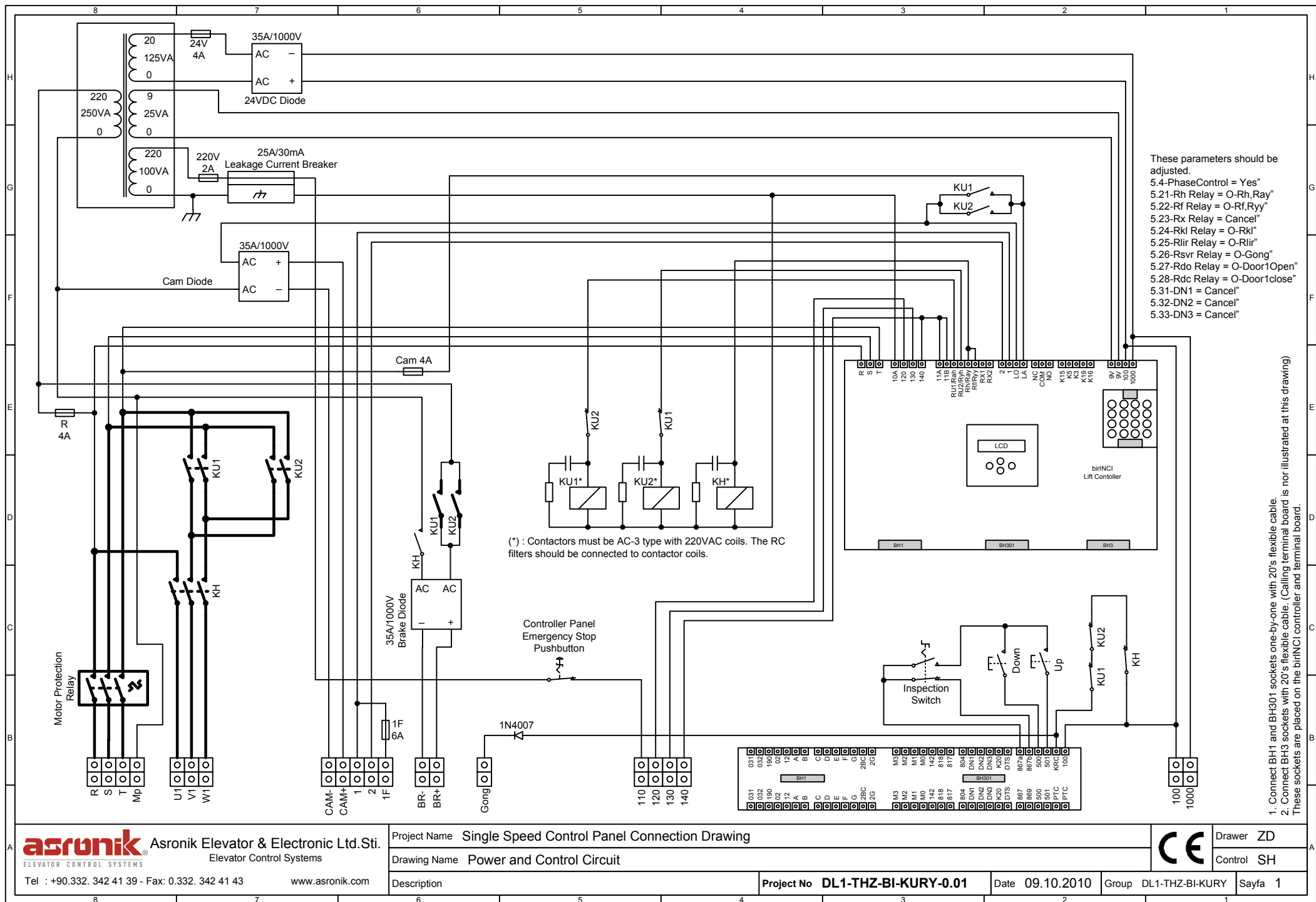
Issued in Amsterdam
Date of issue : 06-12-2012

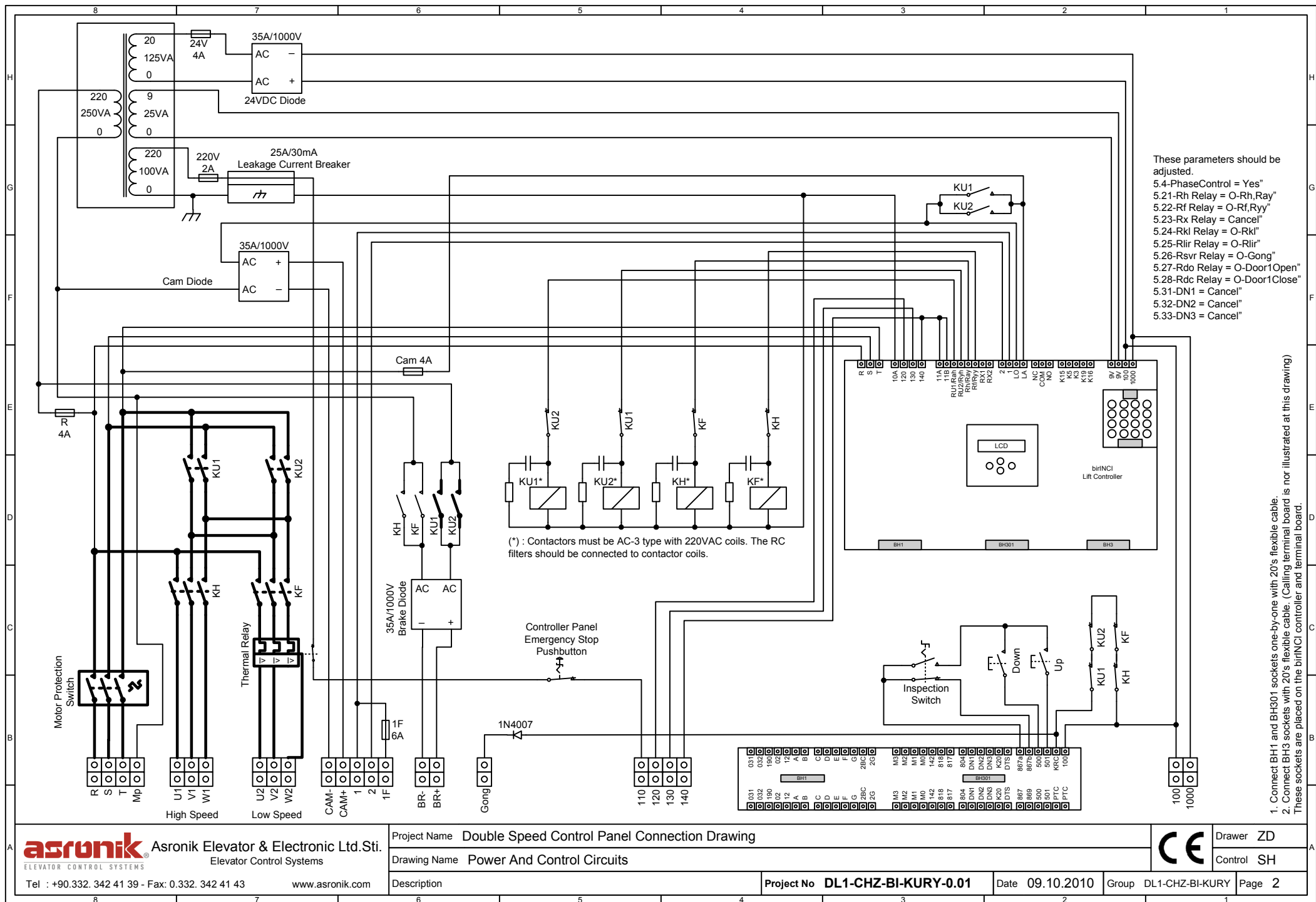
ing. A.J. van Ommen
Manager Business Unit
Certification

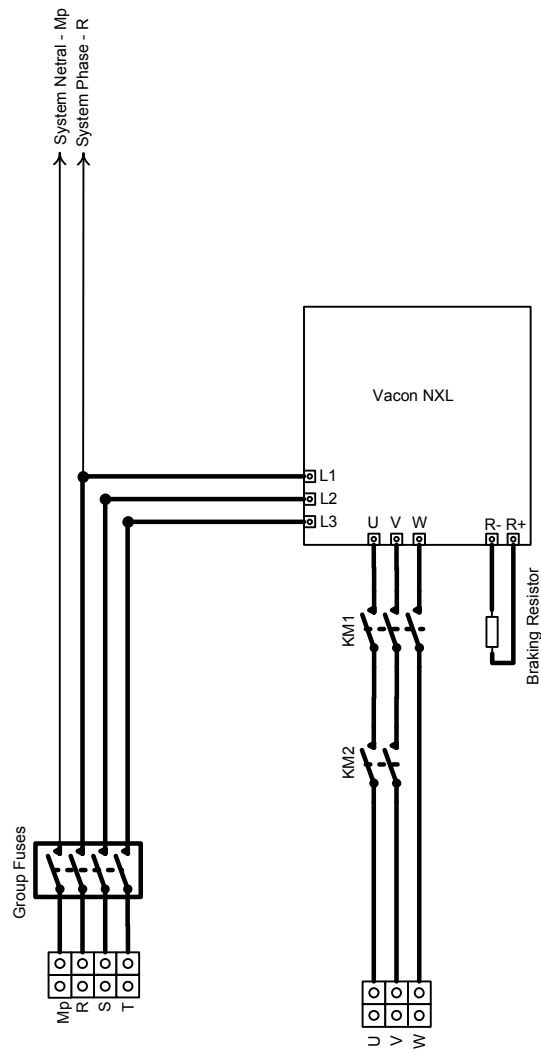
Certification decision by

Projects

Manual Version: 1.01r1
(HV: 1.00, SV:1.08)







Relays :

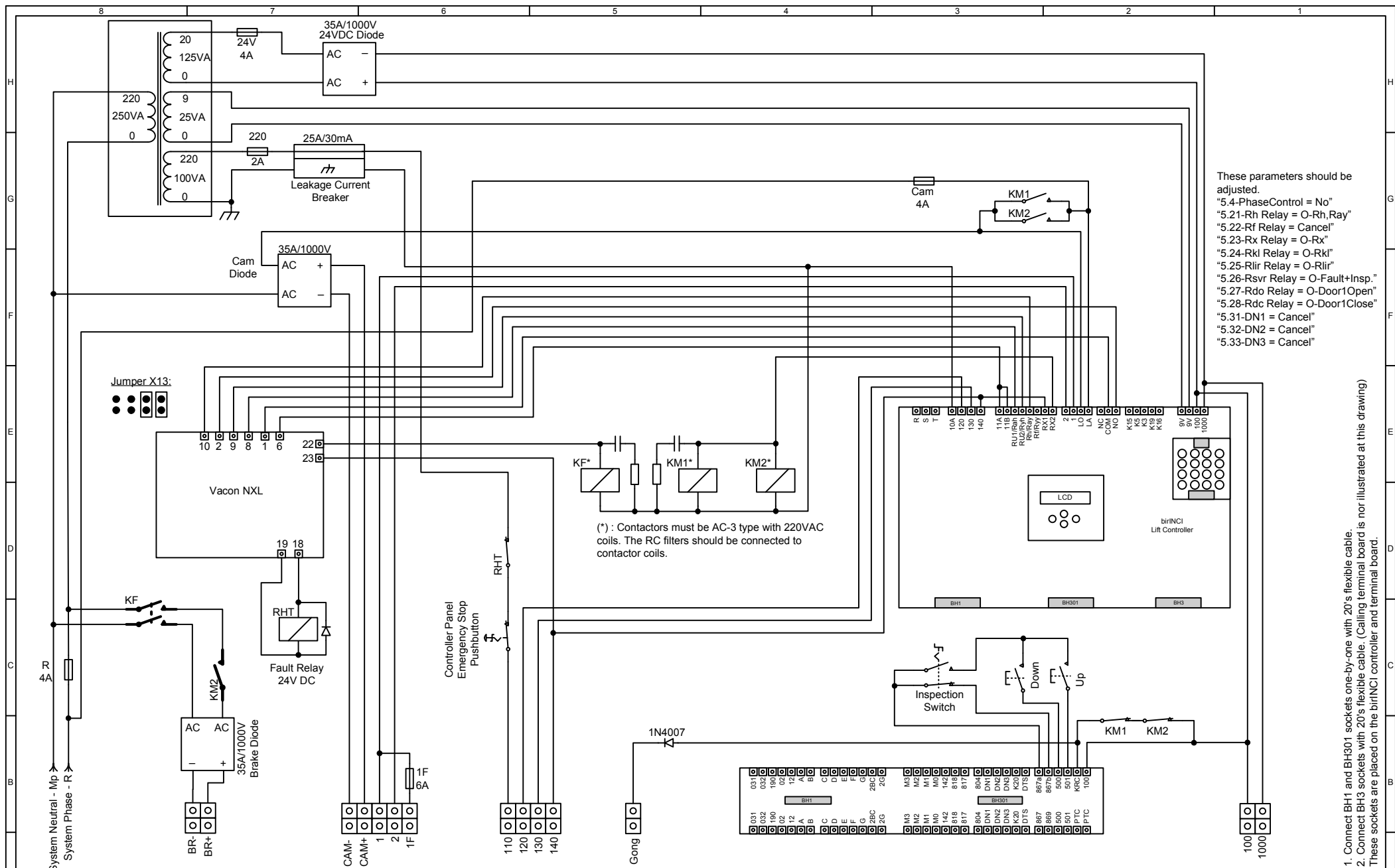
RHT: Fault relay (24VDC coil)

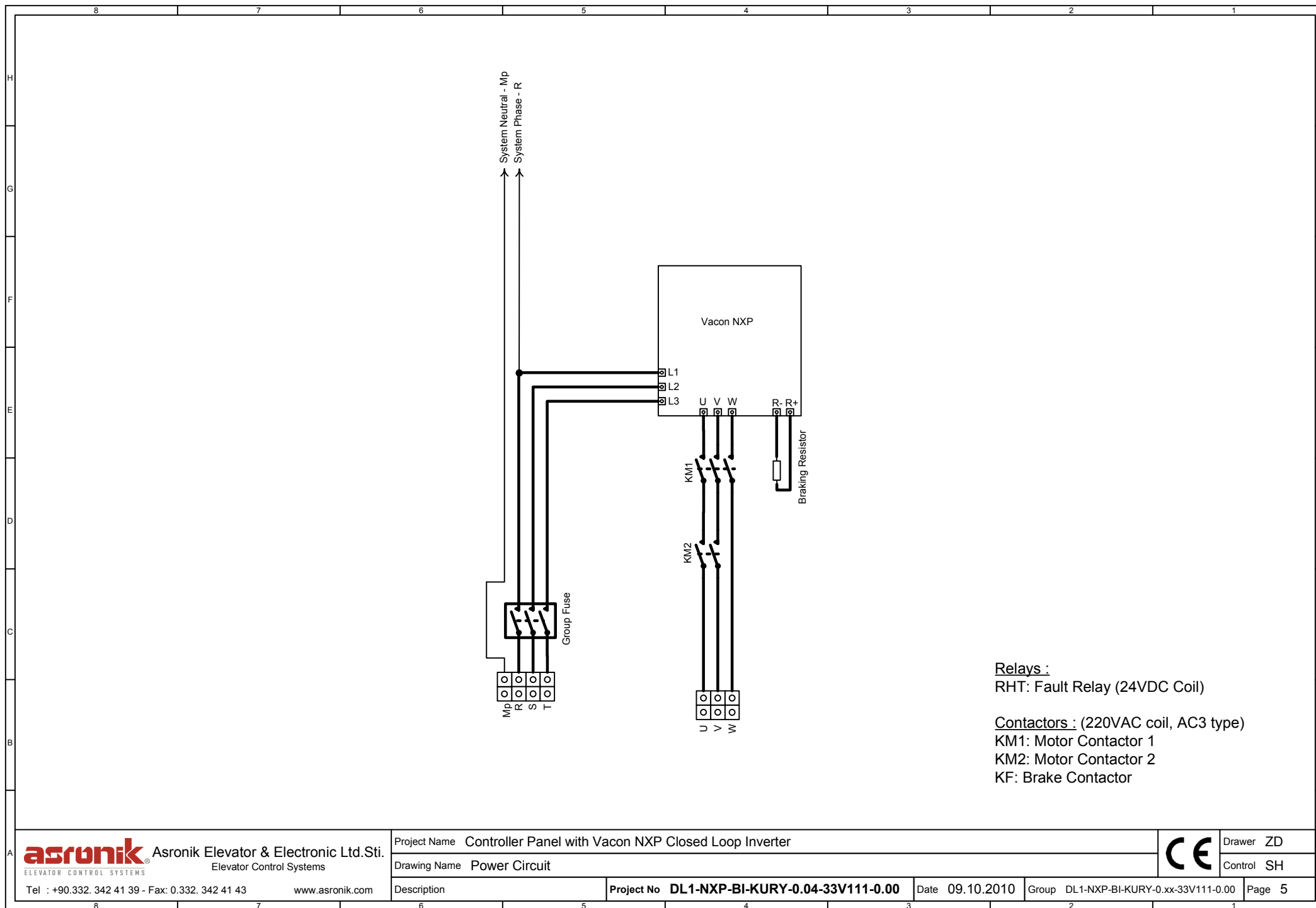
Contactors : (220VAC coils, AC3 type)

KM1: Motor contactor 1

KM2: Motor contactor 2

KF: Brake contactor





Relays :

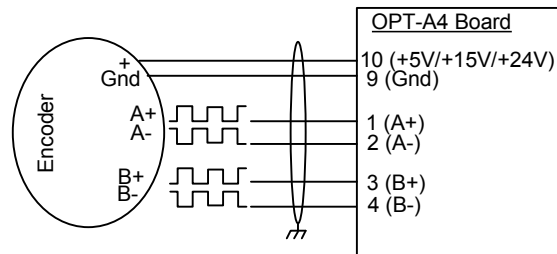
RHT: Fault Relay (24VDC Coil)

Contactors : (220VAC coil, AC3 type)

KM1: Motor Contactor 1

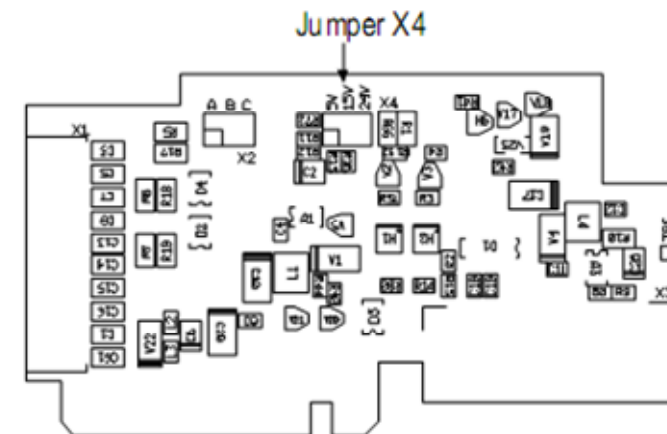
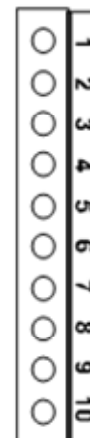
KM2: Motor Contactor 2

KF: Brake Contactor



Connection drawing for TTL output (RS-422 standart) encoders.

- 1 ---- A+
- 2 ---- A-
- 3 ---- B+
- 4 ---- B-
- 9 ---- GND
- 10 ---- +5V/+15V/+24V



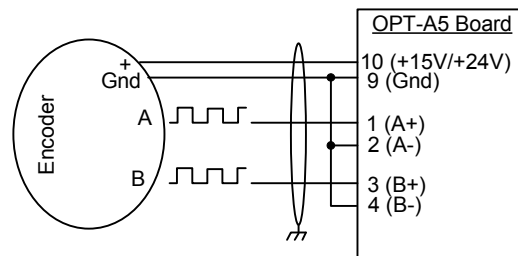
X4 Jumper adjustment:



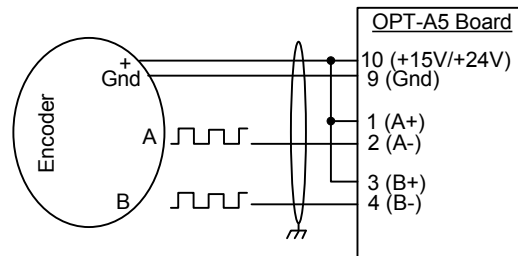
Factory Default

MEANINGS OF COLOURS IN DIFFERENT LANGUAGES

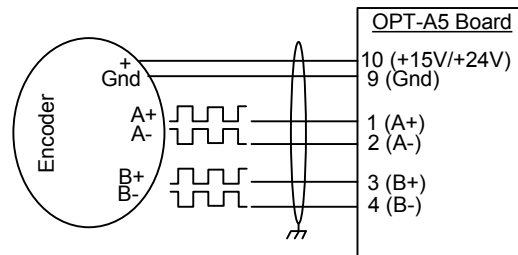
TURKISH	ENGLISH	GERMAN	ITALIAN	SPANISH	FRENCH
SİYAH	BLACK	SCHWARZ	NERO	NEGRO	NOIR
BEYAZ	WHITE	WEISS	BIANCO	BLANCO	BLANC
KIRMIZI	RED	ROT	ROSSO	ROJO	ROUGE
SARI	YELLOW	GELB	GIALLO	AMARILLO	JAUNE
MAVİ	BLUE	BLAU	BLU	AZUL	BLEU
YEŞİL	GREEN	GRÜN	VERDE	VERDE	VERT
KAHVERENGİ	BROWN	BRAUN	MARRONE	MARRON	BRUN
MOR	VIOLET	VIOLETT	VIOLA	VIOLETA	VIOLET
PEMBE	PINK	ROSA	ROSA	ROSA	ROSE
GRİ	GRAY	GRAU	GRIGIO	GRIS	GRIS
TURUNCU	ORANGE	ORANGE	ARANCIONE	NARANJA	ORANGE
ŞEFFAF	TRANSPARENT	DURCHSICHTING	TRANSPARENTE	TRANSPARENTE	TRANSPARENT
BEJ	BEIGE	BEIGE	BEIGE	BEIGE	BEIGE



Open source single ended encoder connection.



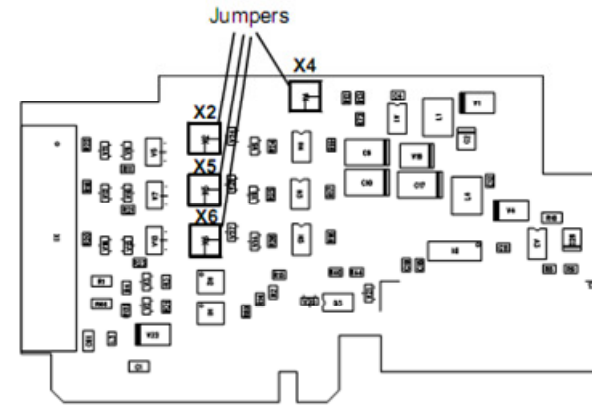
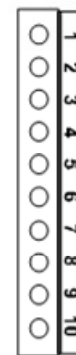
Open collector single ended encoder connections



Differential input, line driver encoder connection

- 1 ---- A+
- 2 ---- A-
- 3 ---- B+
- 4 ---- B-
- 9 ---- GND
- 10 ---- +15V/+24V

OPT-A5



X4 Jumper adjustment:



Factory Default

NOT: OPT-A5 encoder board is suitable encoder board for push-pull HTL and open collector HTL type encoders

MEANINGS OF COLOURS IN DIFFERENT LANGUAGES

TURKISH	ENGLISH	GERMAN	ITALIAN	SPANISH	FRENCH
SİYAH	BLACK	SCHWARZ	NERO	NEGRO	NOIR
BEYAZ	WHITE	WEISS	BIANCO	BLANCO	BLANC
KIRMIZI	RED	ROT	ROSSO	ROJO	ROUGE
SARI	YELLOW	GELB	GIALLO	AMARILLO	JAUNE
MAVİ	BLUE	BLAU	BLU	AZUL	BLEU
YEŞİL	GREEN	GRÜN	VERDE	VERDE	VERT
KAHVERENGİ	BROWN	BRAUN	MARRONE	MARRON	BRUN
MOR	VIOLET	VIOLETT	VIOLA	VIOLETA	VIOLET
PEMBE	PINK	ROSA	ROSA	ROSA	ROSE
GRİ	GRAY	GRAU	GRIGIO	GRIS	GRIS
TURUNCU	ORANGE	ORANGE	ARANCIONE	NARANJA	ORANGE
ŞEFFAF	TRANSPARENT	DURCHSICHTING	TRANSPARENTE	TRANSPARENTE	TRANSPARENT
BEJ	BEIGE	BEIGE	BEIGE	BEIGE	BEIGE



Brand : AUTONICS
Power : 12 – 24 VDC
Pulse : 1024

CODE : E50S8 – 1024 – 3 – T – 24

Cable	Colour	OPT-A5
A+	Black	1
B+	White	3
Gnd	Blue	2-4-9
Vcc	Brown	10
Grounding	Naked	Ground

NOTE: This encoder can not be used with OPT-A4



Brand : NIDEC NEMICRON
Power : 4,5 – 5,5 VDC
Pulse : 1024

CODE : NOC – S – 1024 – 2MD

Cable	Colour	OPT-A4
A+	Green	1
A-	Blue	2
B+	White	3
B-	Gray	4
Gnd	Black	9
Vcc	Red	10
Grounding	Naked	Ground

NOTE: This encoder can not be used with OPT-A5



Brand : METRONICS
MECAPION
Power : 12 – 24 VDC
Pulse : 1024

CODE : S48 – 8 – 1024 – VL

Cable	Colour	OPT-A4 veya OPT-A5
A+	Green	1
A-	Blue	2
B+	White	3
B-	Pink	4
Gnd	Black	9
Vcc	Red	10
Grounding	Naked	Ground



Brand : LIKA
Power : 5 – 30 VDC
Pulse : 1024

CODE : I58S – Y – 1024 – Z

Cable	Colour	OPT-A4 veya OPT-A5
A+	Yellow	1
A-	Blue	2
B+	Green	3
B-	Orange	4
Gnd	Black	9
Vcc	Red	10
Grounding	Naked	Ground

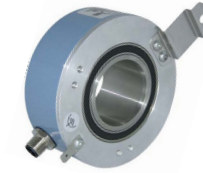


Brand : WACHENDORFF
Power : 4,75 – 5,5 VDC
Pulse : 1024

CODE : WDG 58B – 1024 – AB – IO5 – S3 – C30

Cable	Colour	OPT-A4
A+	Green	1
A-	Gray	2
B+	Yellow	3
B-	Blue	4
Gnd	White	9
Vcc	Brown	10
Grounding	Naked	Ground

NOTE: This encoder can not be used with OPT-A5

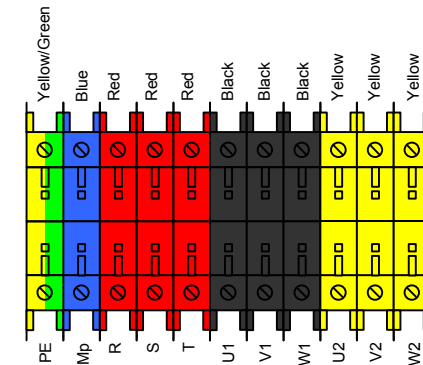
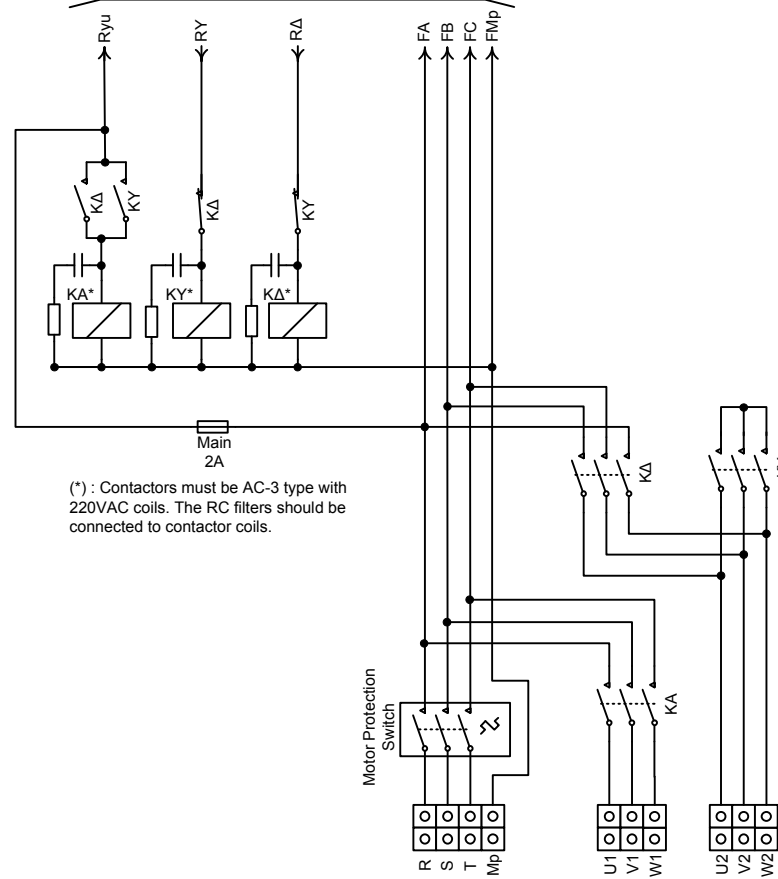


Brand : WACHENDORFF
Power : 10 – 30 VDC
Pulse : 1024

CODE : WDG 100H –38 – 1024 – ABN – I24 – K3 – 050

Cable	Colour	OPT-A4 veya OPT-A5
A+	Yeşil	1
A-	Red	2
B+	Yellow	3
B-	Black	4
Gnd	White	9
Vcc	Brown	10
Grounding	Naked	Ground

Please look the control drawings according to your hydrolic unit brand name



ATTENTION! : PLEASE SET THE birINCI CONTROLLER BOARD TO HYDROLIC-STAR-DELTA MACRO FIRST OF ALL. OTHERWISE FATAL DANGER MAY BE BECOME. ALSO PERMANENT DAMAGE MEY BE BECOME



Asronik Elevator & Electronic Ltd.Sti.
Elevator Control Systems

Tel : +90.332. 342 41 39 - Fax: 0.332. 342 41 43 www.asronik.com

Project Name Hydrolic Lift Power Circuit

Drawing Name Star-Delta Power Circuit

Description

Project No GUC-YU-0.00

Date 30.08.2010

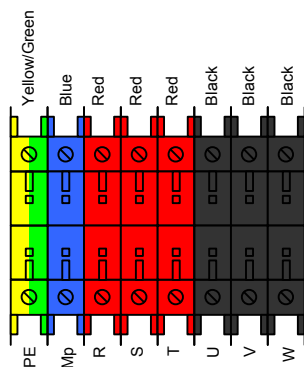
Group GUC-xx

Sayfa 11

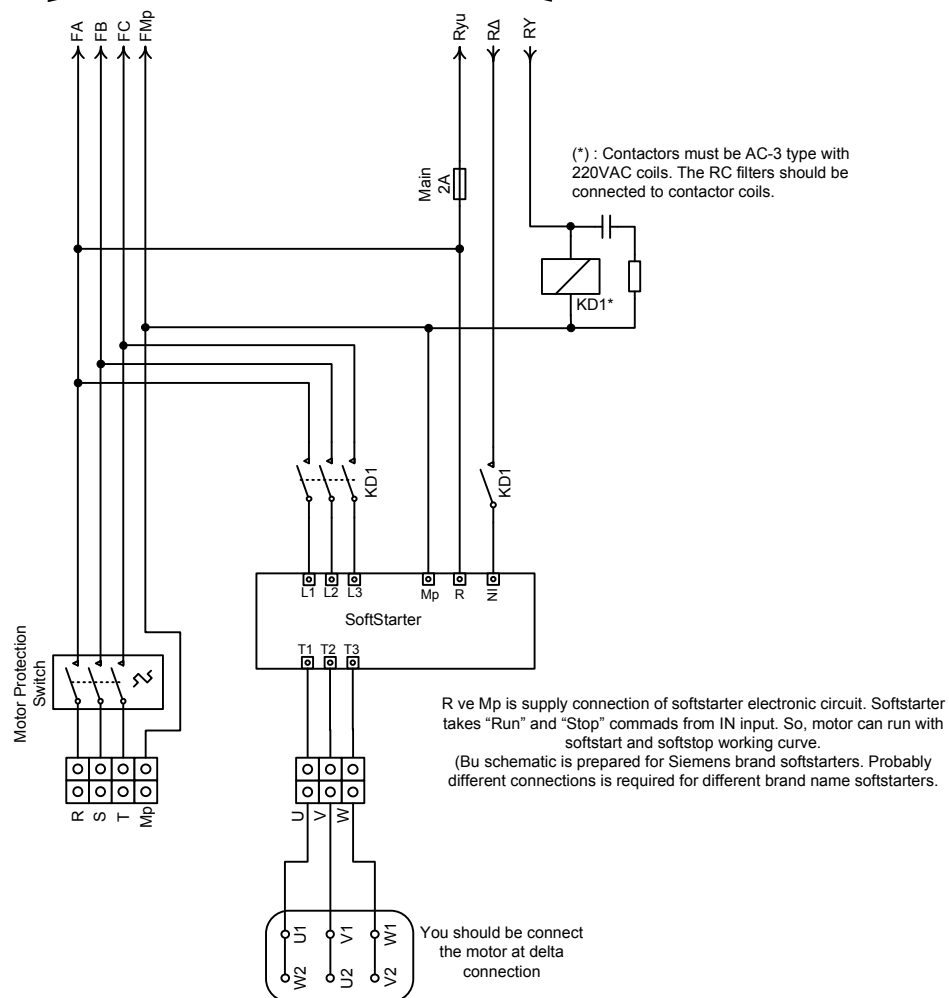


Drawer ZD

Control SH



Please look the control drawings according to your hydrolic unit brand name



ATTENTION! : PLEASE SET THE birINCI CONTROLLER BOARD TO HYDROLIC-SOFTSTARTER MACRO FIRST OF ALL. OTHERWISE FATAL DANGER MAY BE BECOME. ALSO PERMANENT DAMAGE MEY BE BECOME

asrunik Asronik Elevator & Electronic Ltd.Sti.
ELEVATOR CONTROL SYSTEMS
Elevator Control Systems

Tel : +90.332. 342 41 39 - Fax: 0.332. 342 41 43 www.asronik.com

Project Name Hydrolic Lift Power Circuit

Drawing Name Softstarter Power Circuit

Description

Project No GUC-SS-0.00

Date 30.08.2010

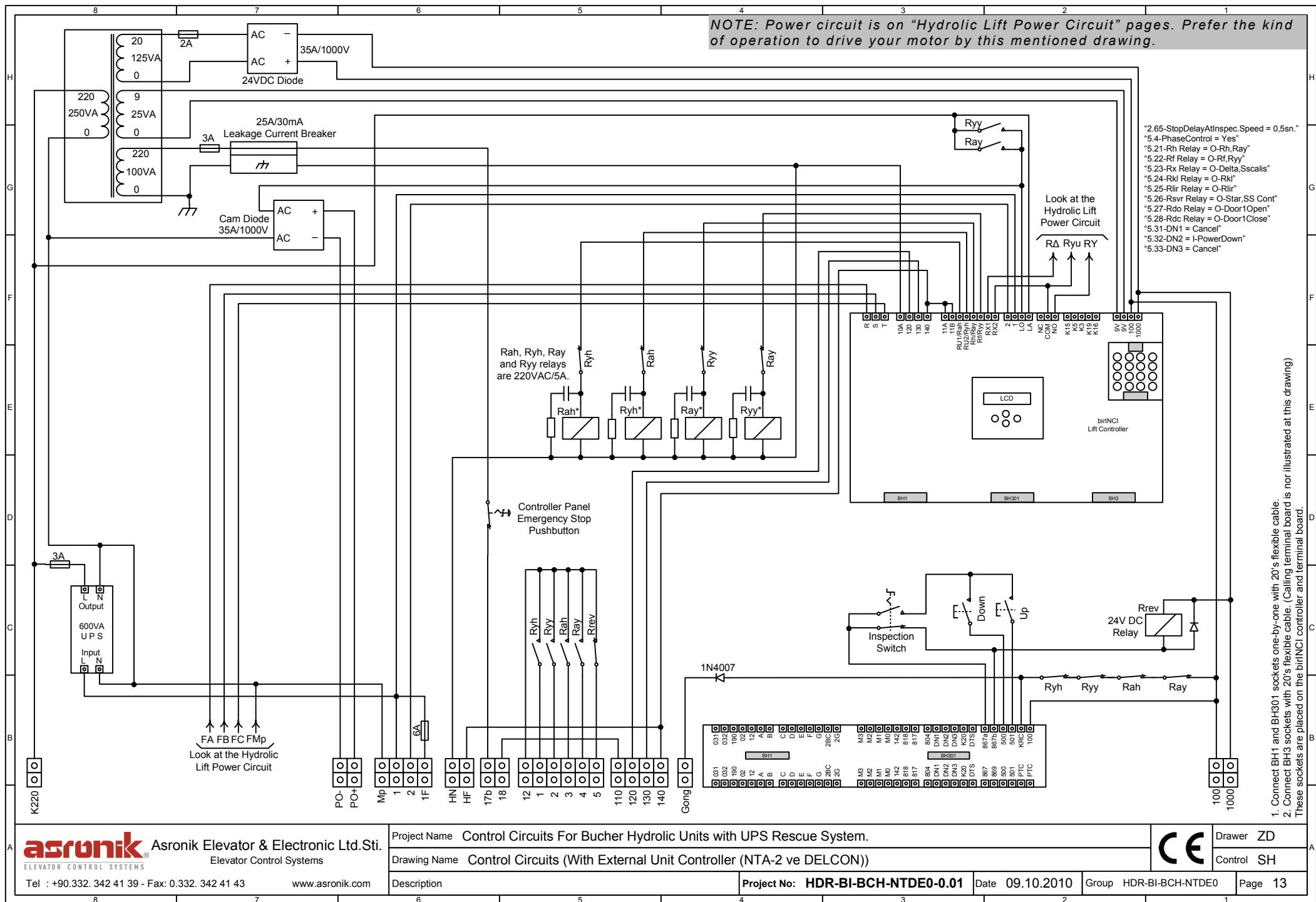
Group GUC-xx

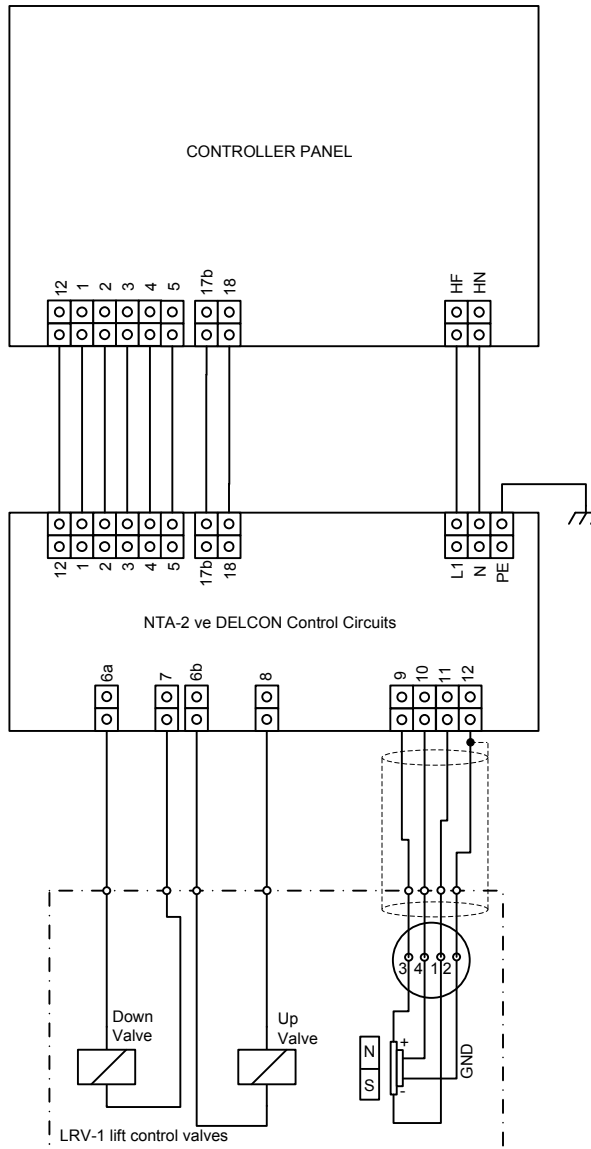
Sayfa 12



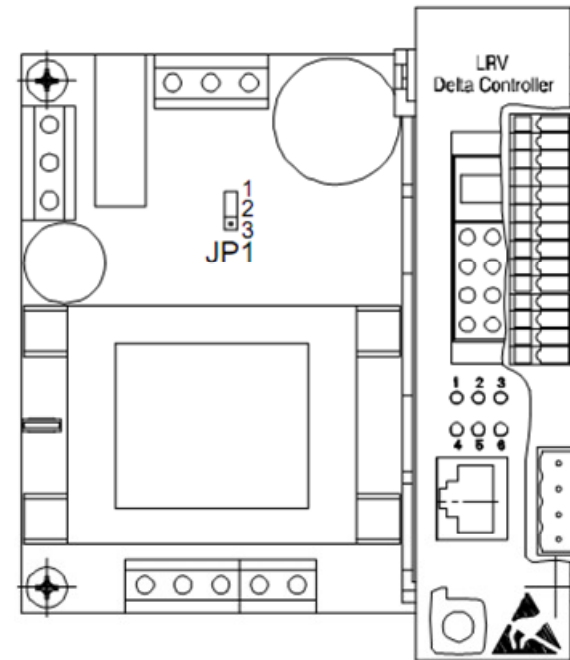
Drawer ZD

Control SH



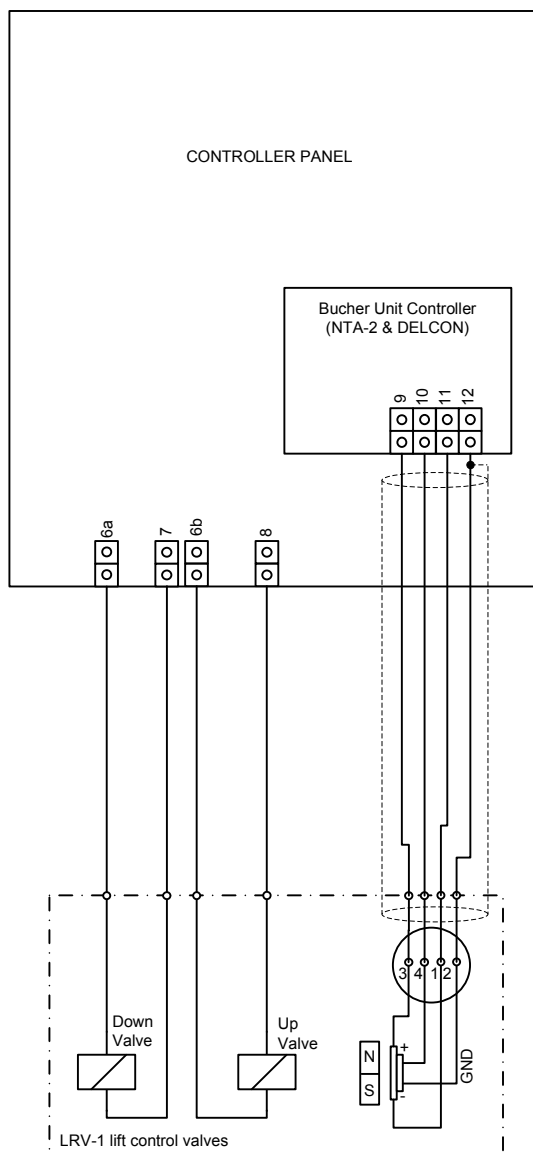


IMPORTANT NOTE:
JP1 jumper is connected 1-2 pins as standart.

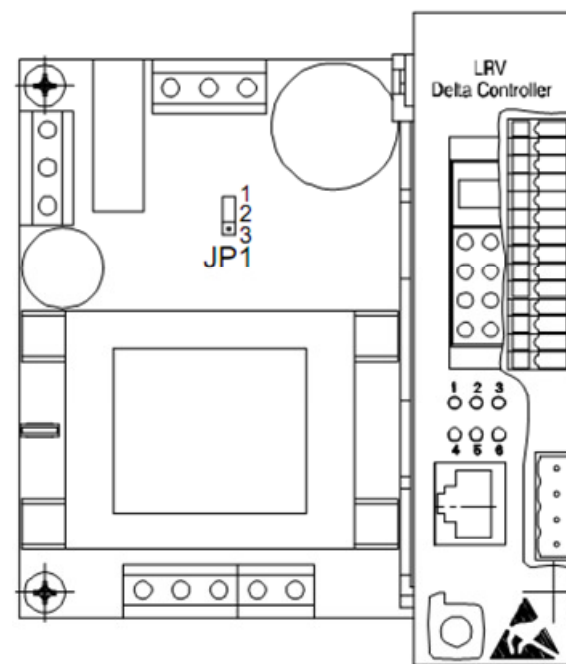


JP1 Jumper Settings



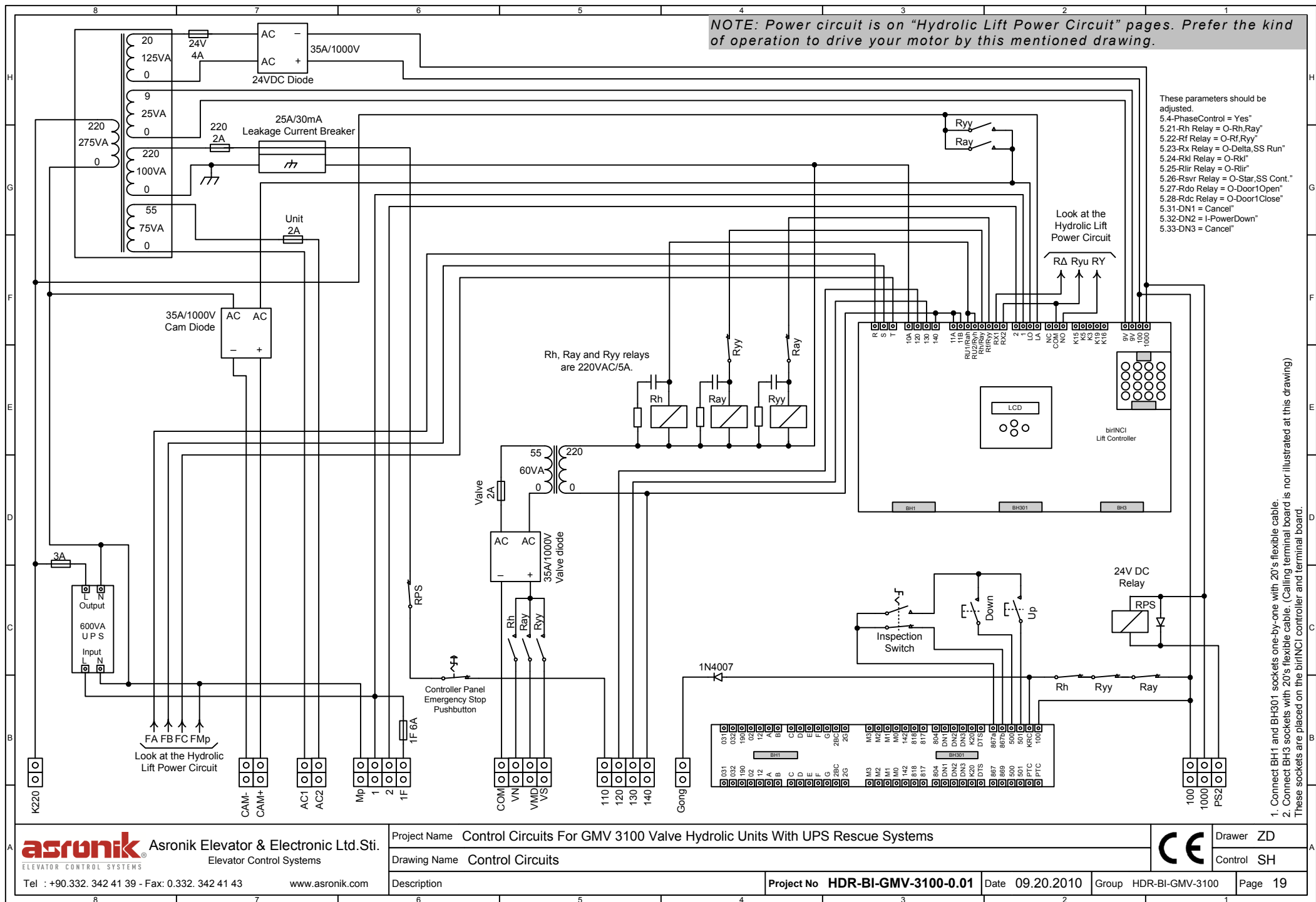


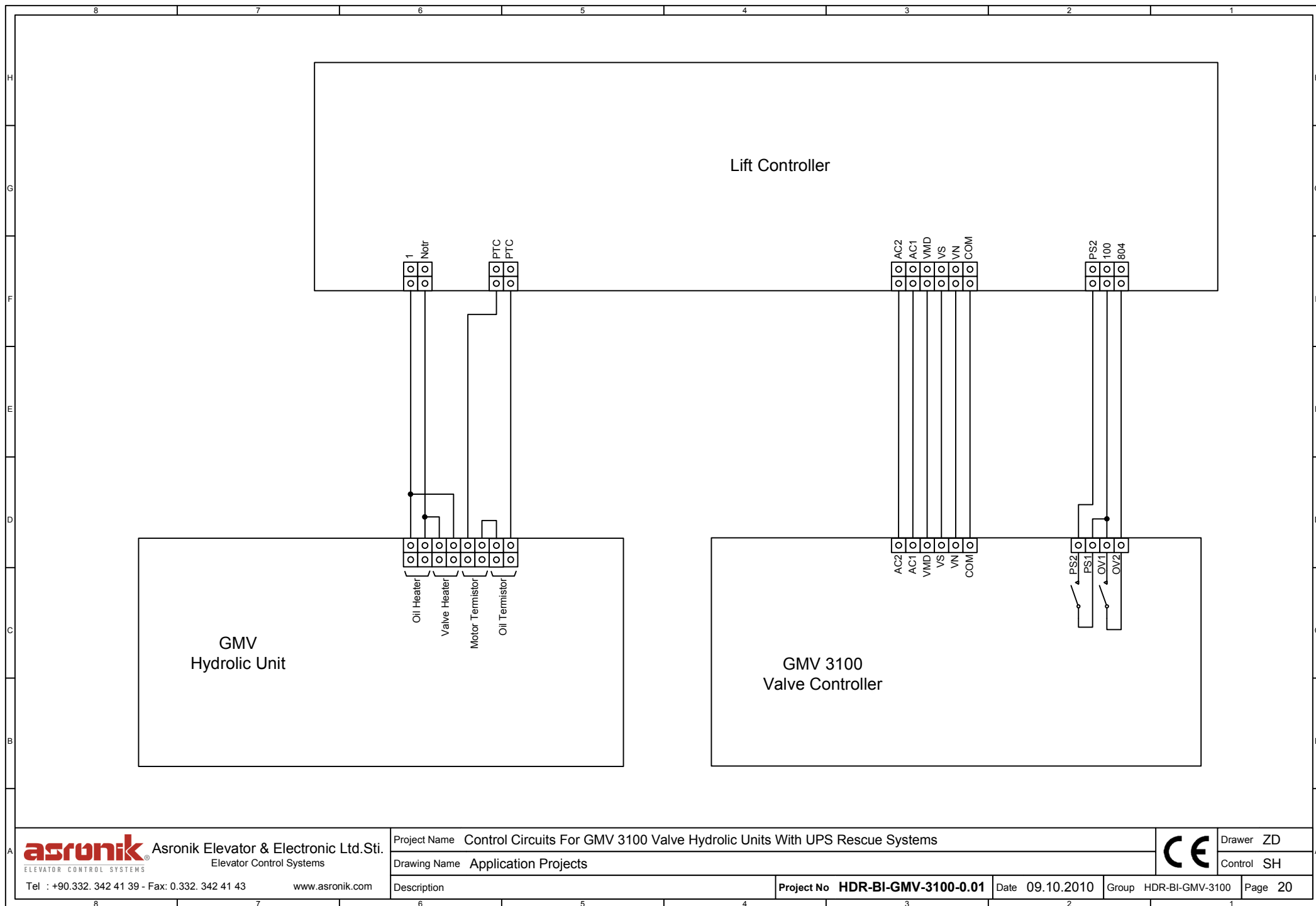
IMPORTANT NOTE:
JP1 jumper is connected 1-2 pins as standart.

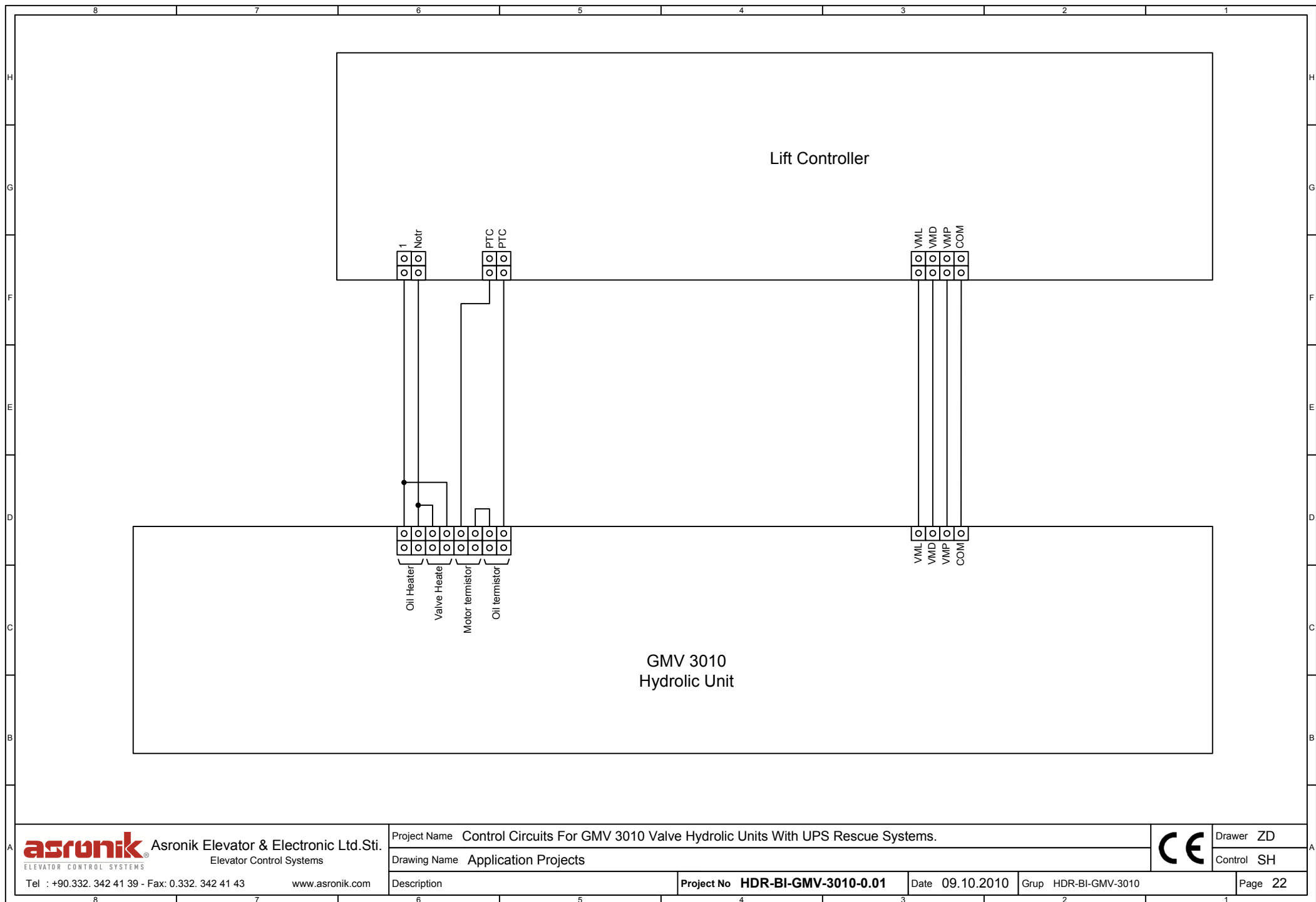


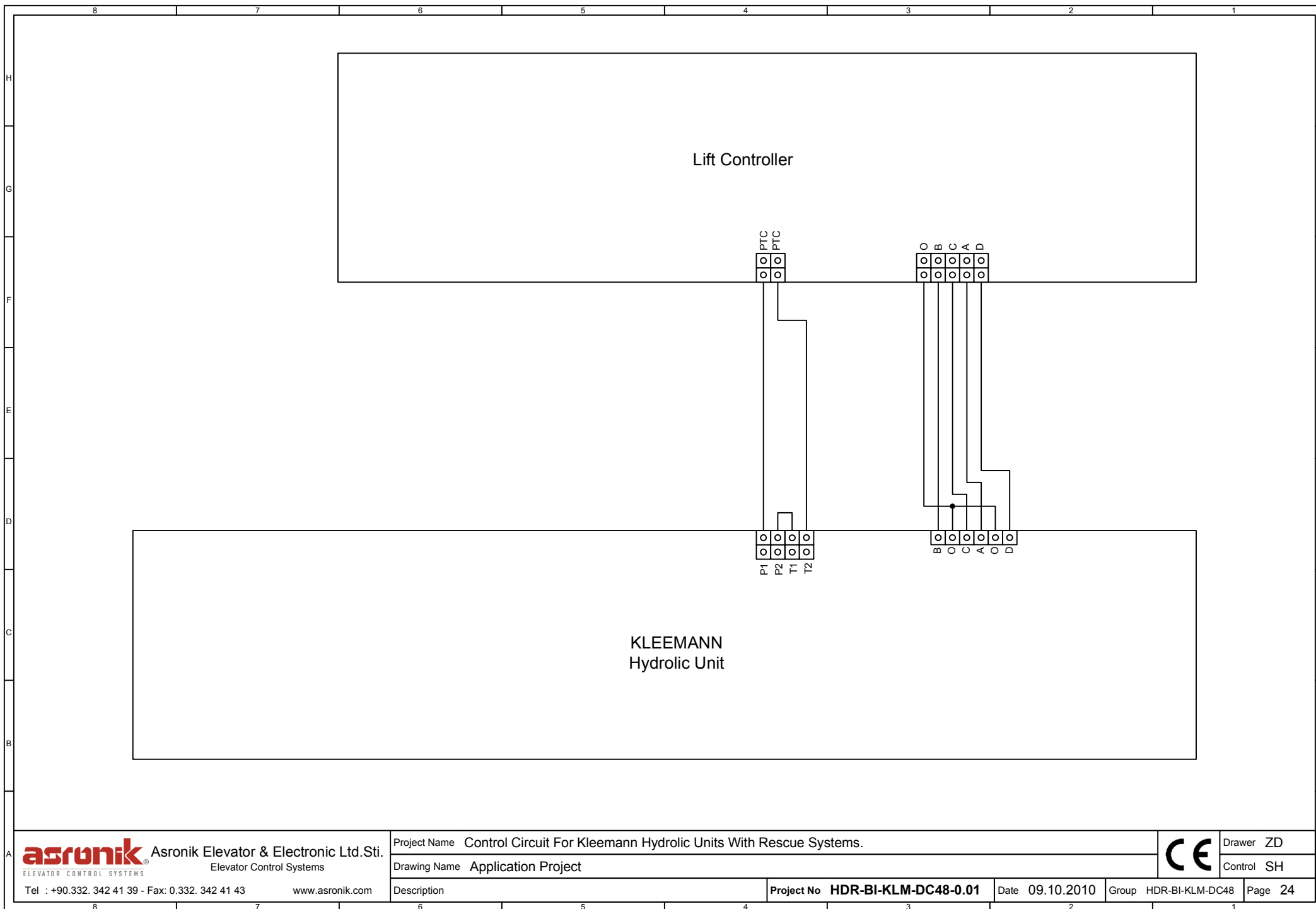
JP1 Jumper Settings

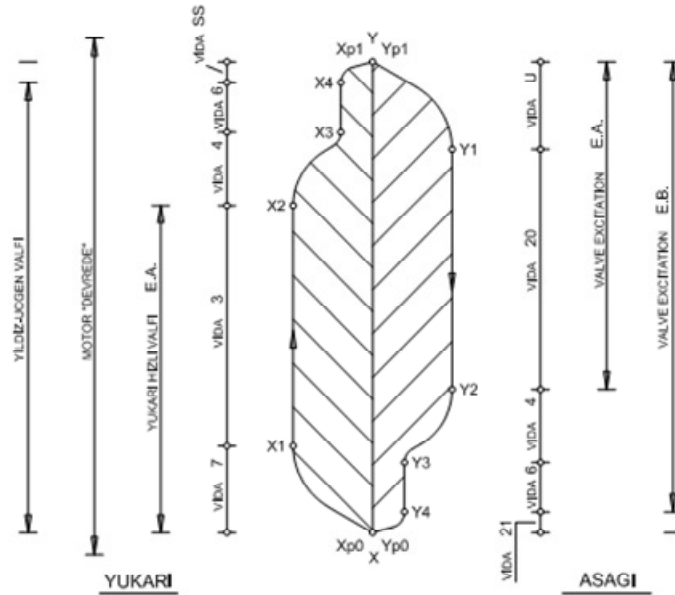
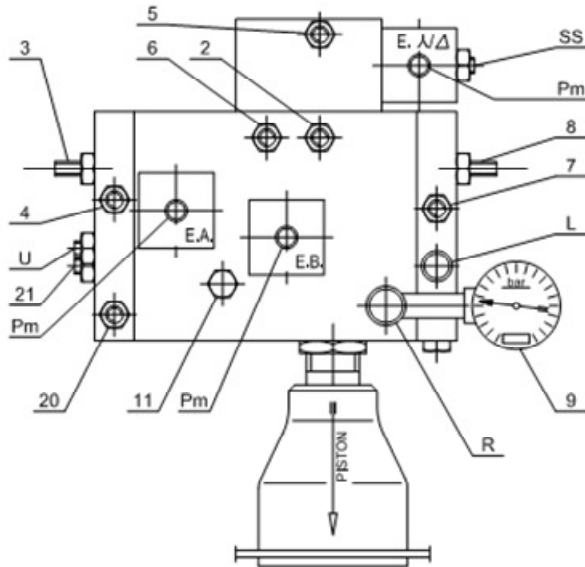












AYARLAR

Vida - 1	PISTON KAYMA BASINC AYARI - VIDA SIKILDIKCA BASINC ARTAR
Vida - 2	HORTUM PATLAMA VALFI TEST VIDASI (bknz. cizim no 9340)
Vida - 3	YUKARI VE ASAGI YUKSEK HIZ AYARI - VIDA SIKILDIKCA HIZ AZALIR
Vida - 4	ILK YAVASLAMA AYARI - VIDA SIKILDIKCA YAVASLAMA UZAR VE YUMUSAR
Vida - 5	MAX. BASINC AYARI - VIDA SIKILDIKCA BASINC ARTAR
Vida - 6	YUKARI VE ASAGI YAVAS HIZ AYARI - VIDA SIKILDIKCA HIZ AZALIR
Vida - 7	YUKARI HIZLANMA EGRISI - VIDA SIKILDIKCA KALKIS EGRISI UZAR VE KALKIS YUMUSAR
Vida - 8	GERI DONUS BASINC AYARI - VIDA SIKILDIKCA BASINC ARTAR
9	MANOMETRE
Vida - 11	SUKUNET HALINDE CEKVALF BASINCI AYARI
Vida - 20	ASAGI YONDE YUKSEK HIZ AYARI - VIDA SIKILDIKCA HIZ ARTAR
Vida - 21	ASAGI ISTIKAMETTE KATA VARIS HIZI AYARI - VIDA SIKILDIKCA DURUS YUMUSAR (2)
Vida - SS	YUKARI ISTIKAMETTE KATA VARIS HIZI AYARI - VIDA SIKILDIKCA DURUS YUMUSAR (3)
E.A.	YUKARI VE ASAGI YONDE YUKSEK HIZ VALFI
E.B.	ASAGI YONDE YAVAS HIZ VALFI
E. A / Δ	YUKARI YONDE YAVAS HIZ VALFI
L	MANUEL ASAGI INDIRME BUTONU
Pm	MANUEL YEDEK INDIRME VALFI BUTONU
R	MANOMETREYI KAPATMA VIDASI
Vida - U	ASAGI HIZLANMA EGRISI - VIDA SIKILDIKCA KALKIS EGRISI UZAR VE KALKIS YUMUSAR (1)

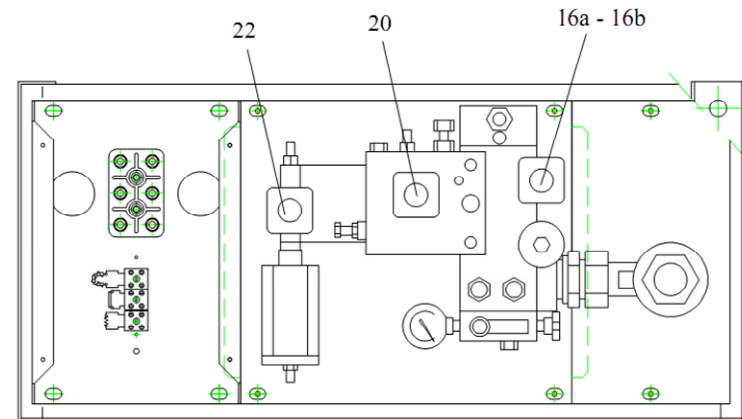
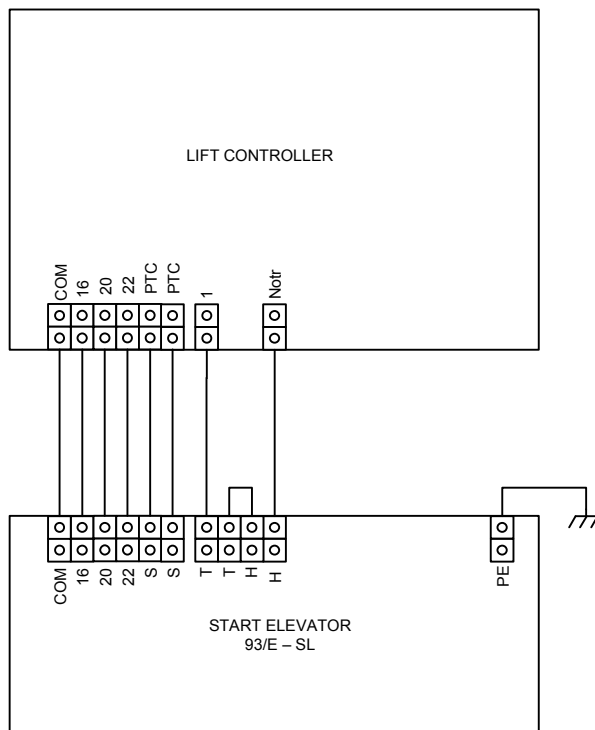
NOTE (1): VIDAYI TAMAMEN SIKMAYINIZ, SON DURUS SEYRINI ENGELLER
 (2): VIDAYI TAMAMEN SIKMAYINIZ, KATINA VARMADAN DURUR, DIGER YONDE ISE KATINI GECER
 (3): 7 NOLU VIDAYI SITEM DURANA KADAR SIKINIZ (SOGUK YAGDA)

CALISMA SEKLI

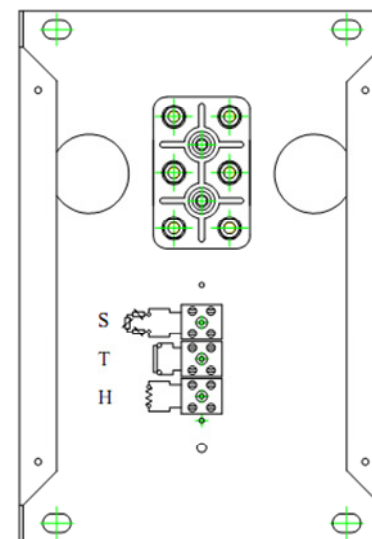
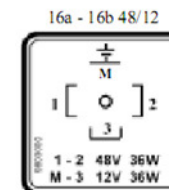
X	→	Xp0	ELEKTRIK MOTORU DEVREDE
Xp0	→	X1	MOTOR VE E.A. + E. Δ VALFI DEVREDE
X1	→	X2	YUKARI ISTIKAMETTE HIZLANMA EGRISI, ISTEGE GORE VIDA 7 ILE AYARLANABILIR
X2	→	X3	YUKARI ISTIKAMETTE HIZLI SEYIR - YUKSEK HIZ VIDA 3 ILE AYARLANABILIR
X3	→	X4	YUKARI ISTIKAMETTE ILK YAVASLAMA EGRISI - E.A. VALFI DEVRE DISI
X4	→	Xp1	YAVASLAMA VIDA 4 ILE AYARLANABILIR
Xp1	→	Y	YUKARI ISTIKAMETTE YAVAS HIZ - ISTEGE GORE VIDA 4 ILE AYARLANABILIR
Yp1	→	Y1	YUKARI ISTIKAMETTE KATA VARIS EGRISI - "SS" VIDASIYLA AYARLANABILIR
Y1	→	Y2	MOTORUN DURUSDAKI GECIKMESI
Y2	→	Y3	ASAGI ISTIKAMETTE HIZLANMA EGRISI E.A. VE E.B. VALFLERI DEVREDE
Y3	→	Y4	HIZLANMA VIDA U ILE AYARLANABILIR
Y4	→	Yp0	ASAGI ISTIKAMETTE YUKSEK HIZ - VIDA 20 ILE AYARLANABILIR
Yp0	→	Yp1	ASAGI ISTIKAMETTE ILK YAVASLAMA EGRISI - E.A. VALFI DEVRE DISI
Yp1	→	Yp2	VIDA 4 ILE AYARLANABILIR
Yp2	→	Yp3	ASAGI ISTIKAMETTE YAVAS HIZ - 6 NOLU VIDA ILE AYARLANABILIR
Yp3	→	Yp4	ASAGI ISTIKAMETTE KATA VARIS EGRISI - E.B. VALFI DEVRE DISI
Yp4	→	Yp5	21 NOLU VIDA ILE AYARLANABILIR

SOFT STOPLU+21 VALF BLOGUNUN CALISMA SEKLI
 VE AYARLAMA YONTEMI
 (15/250 L/DAK VALF BLOKLARI ICIN GECERLİ)

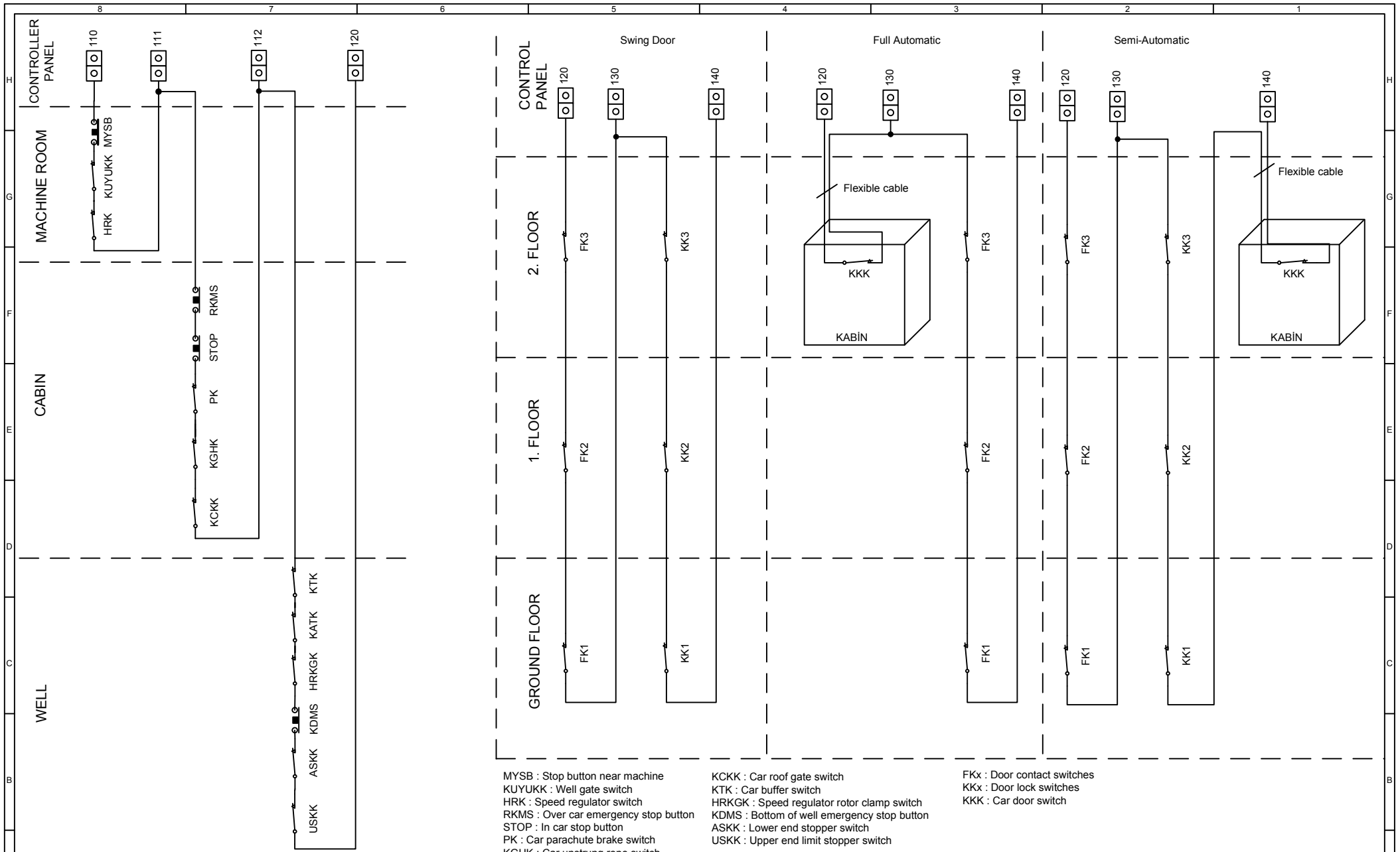
0557/SS (250) TR

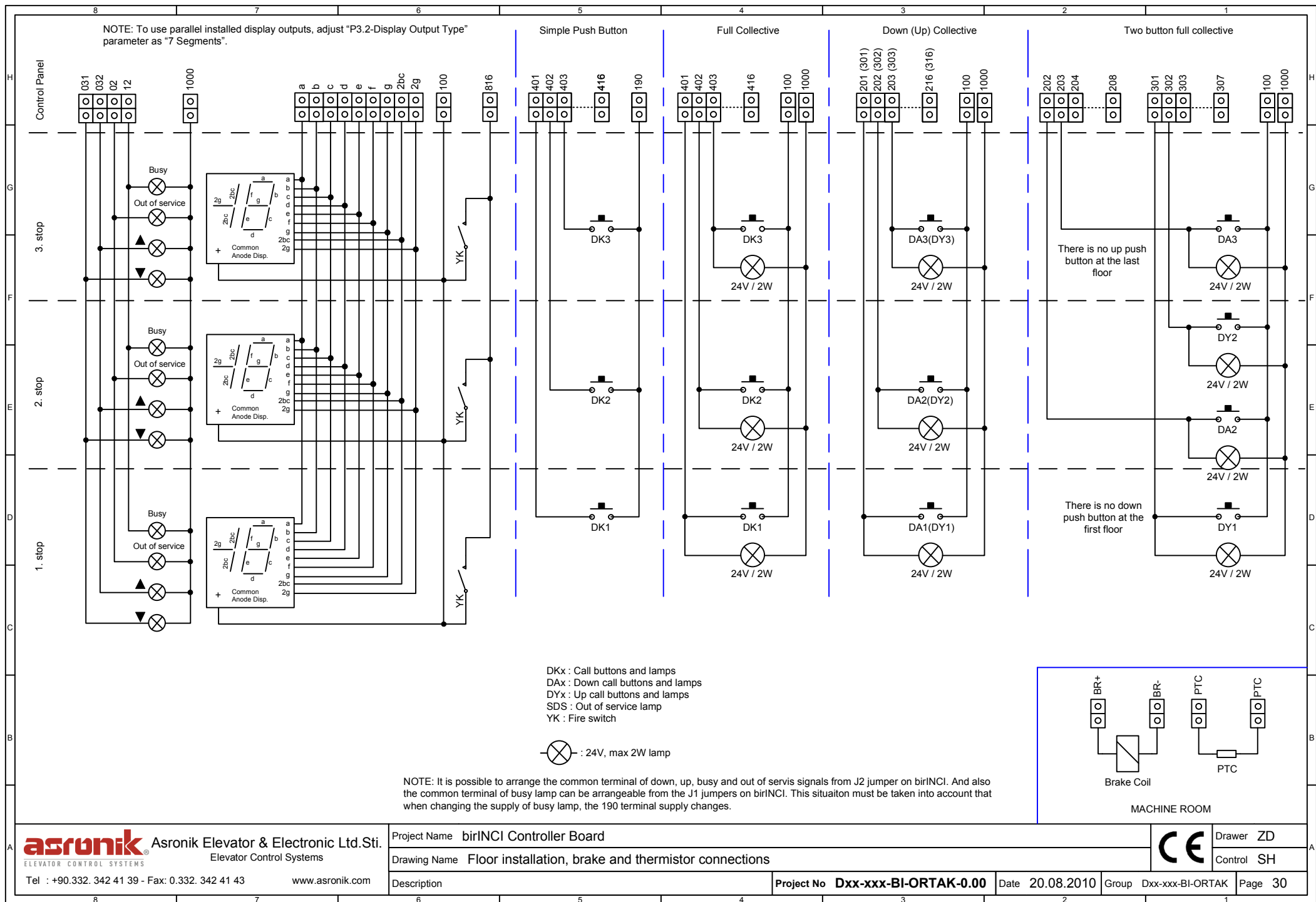


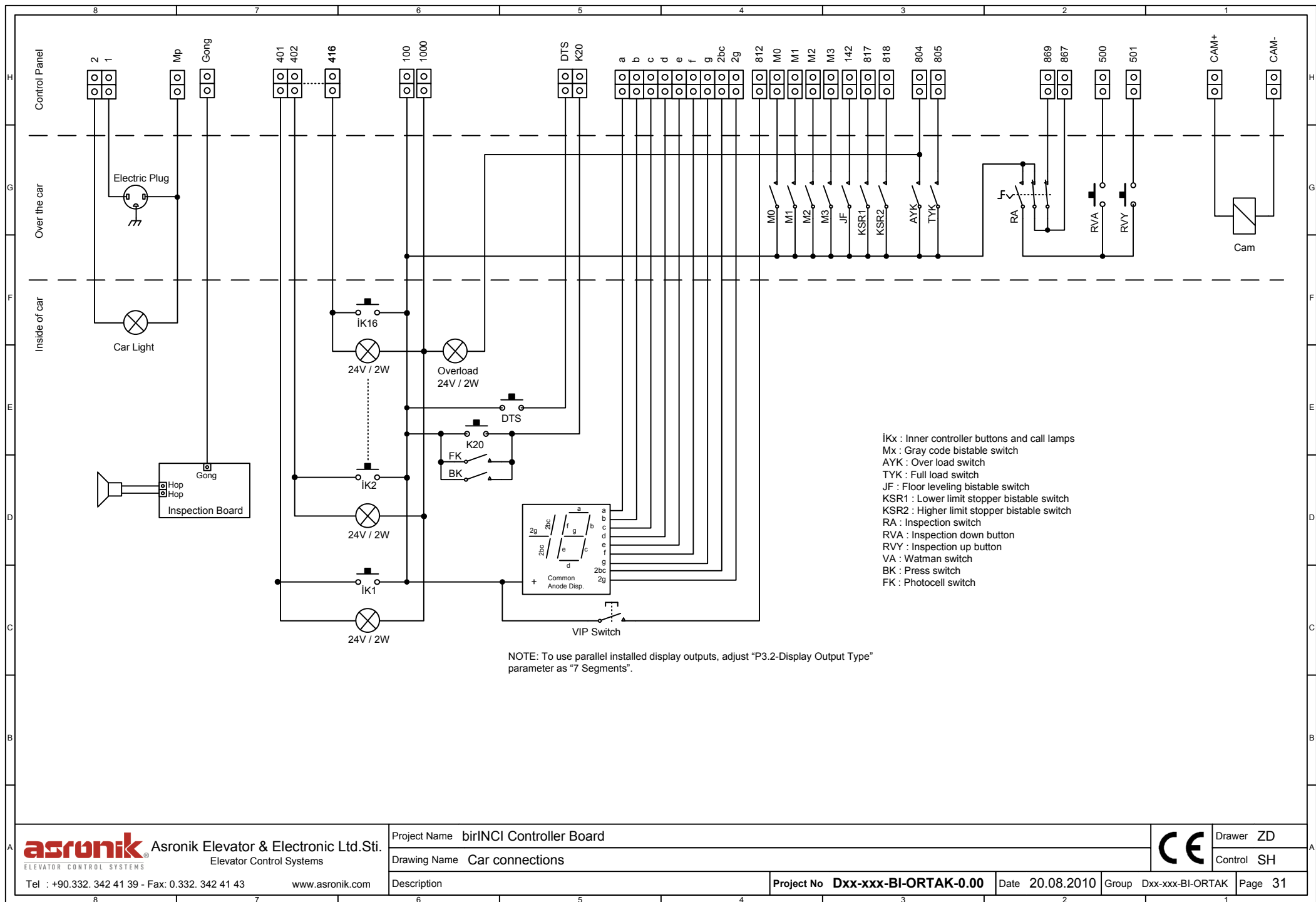
COM – Valve common terminal
16 – Down low speed valve
20 – Up low speed valve
22 – High speed valve

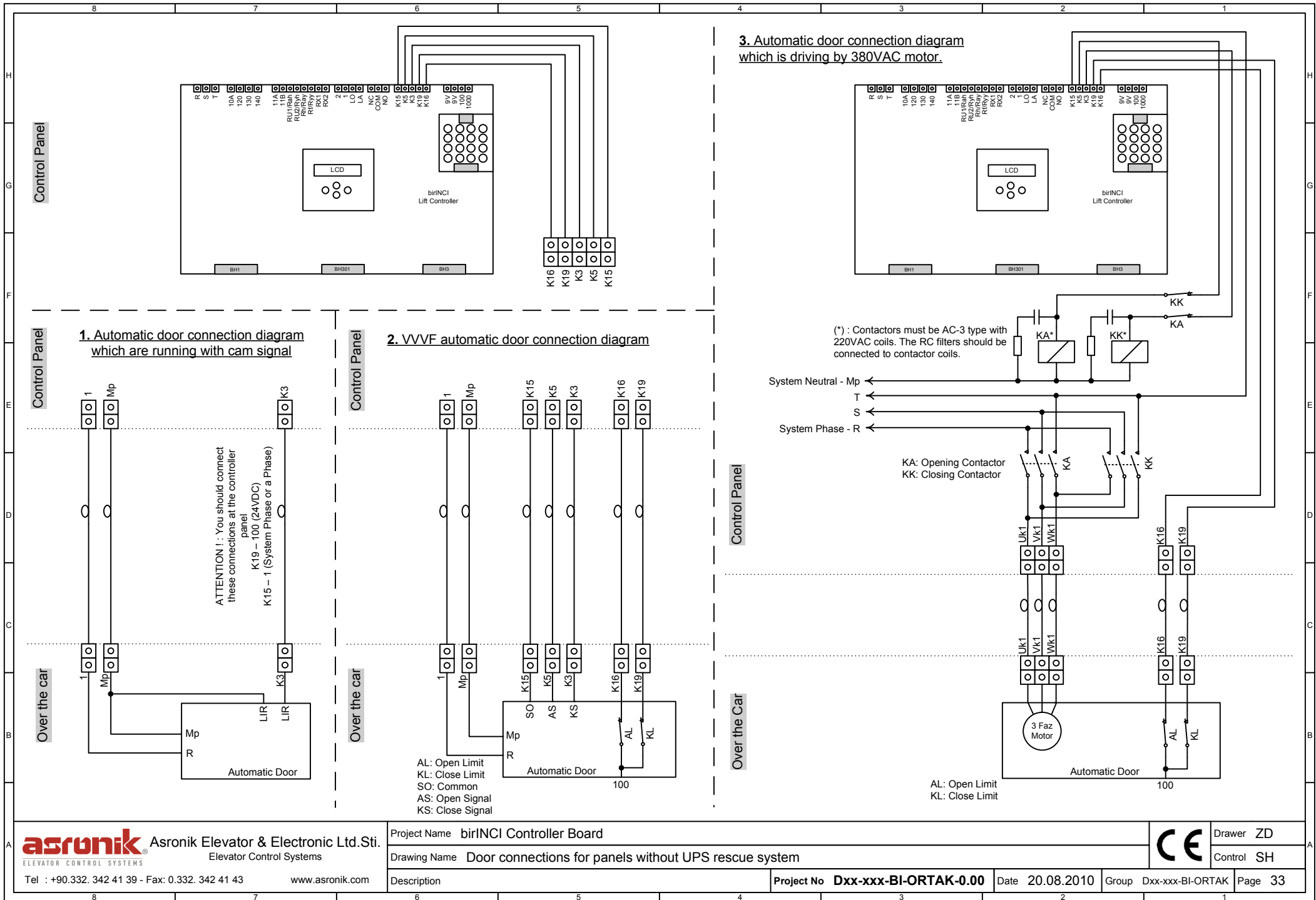


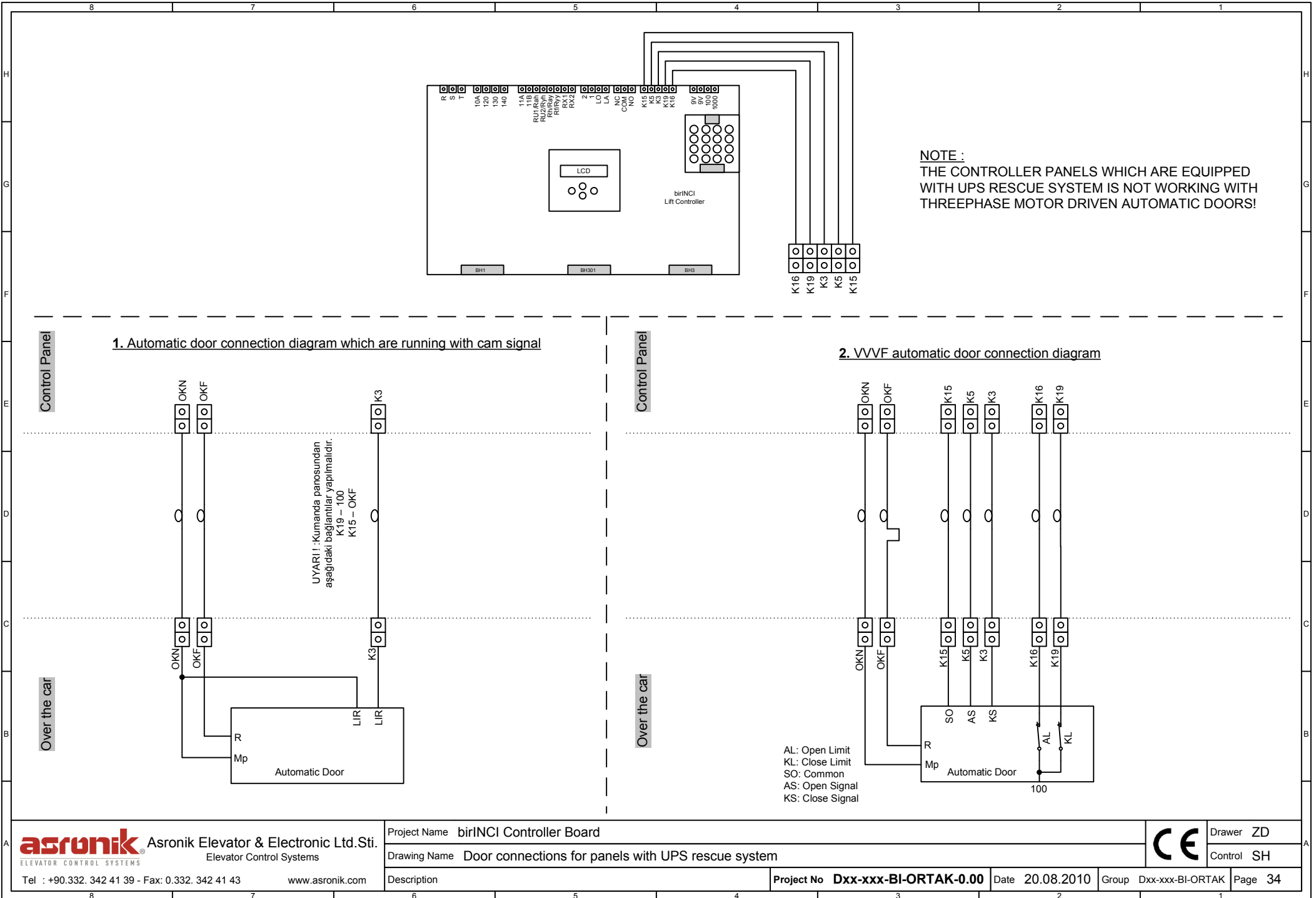
S – PTC
T – Oil thermostat (70 °C)
H – Oil heater (500W)

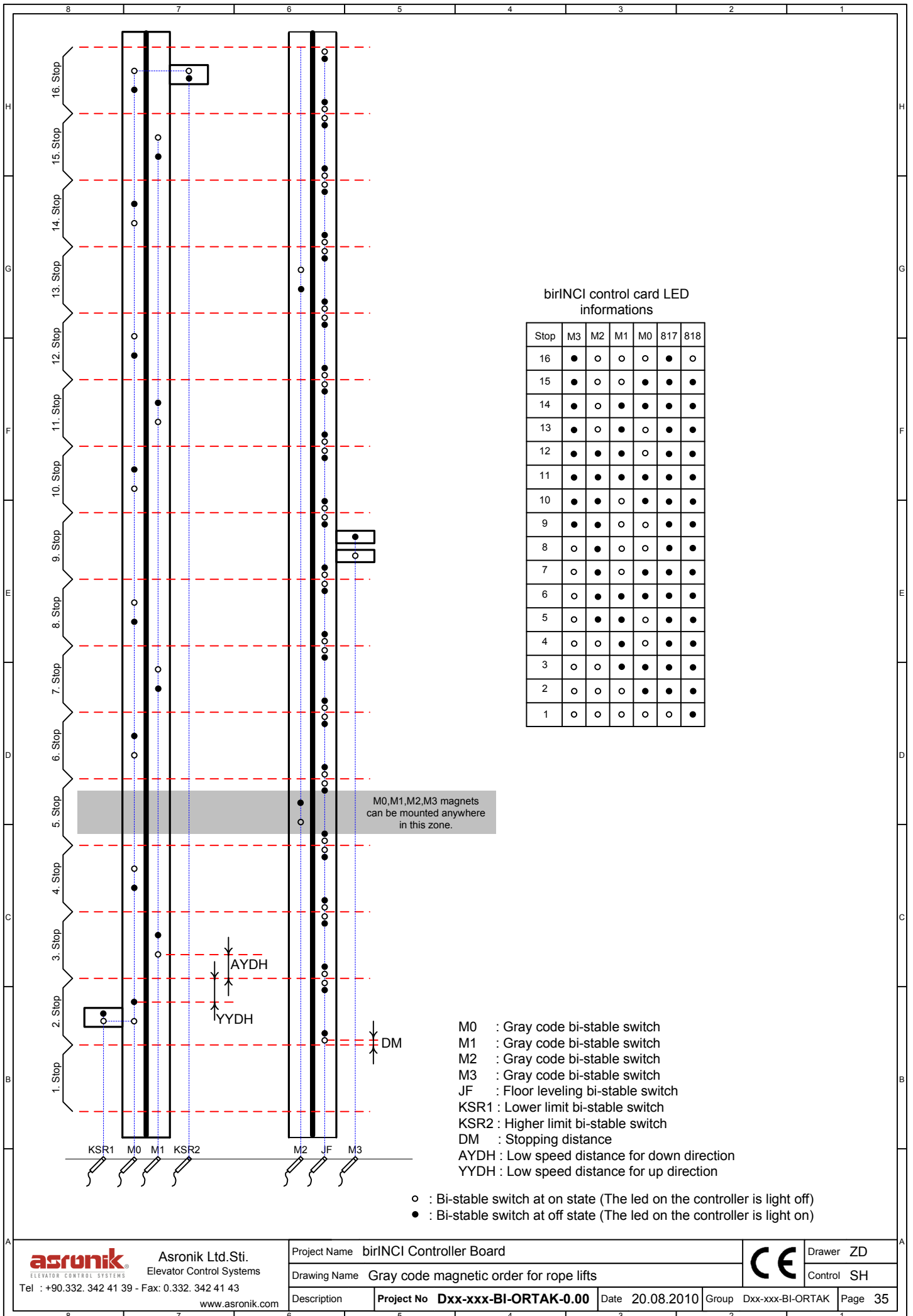


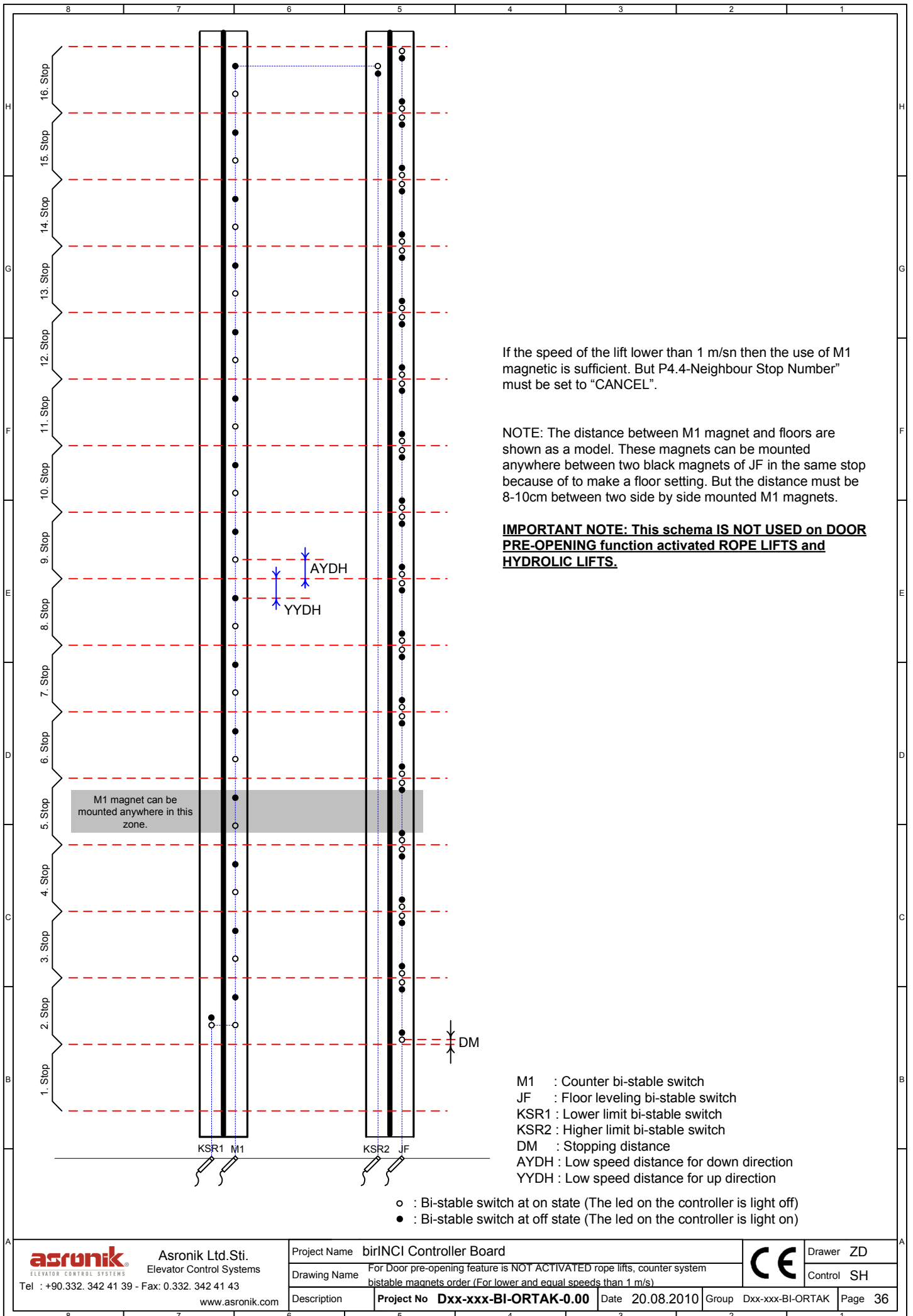


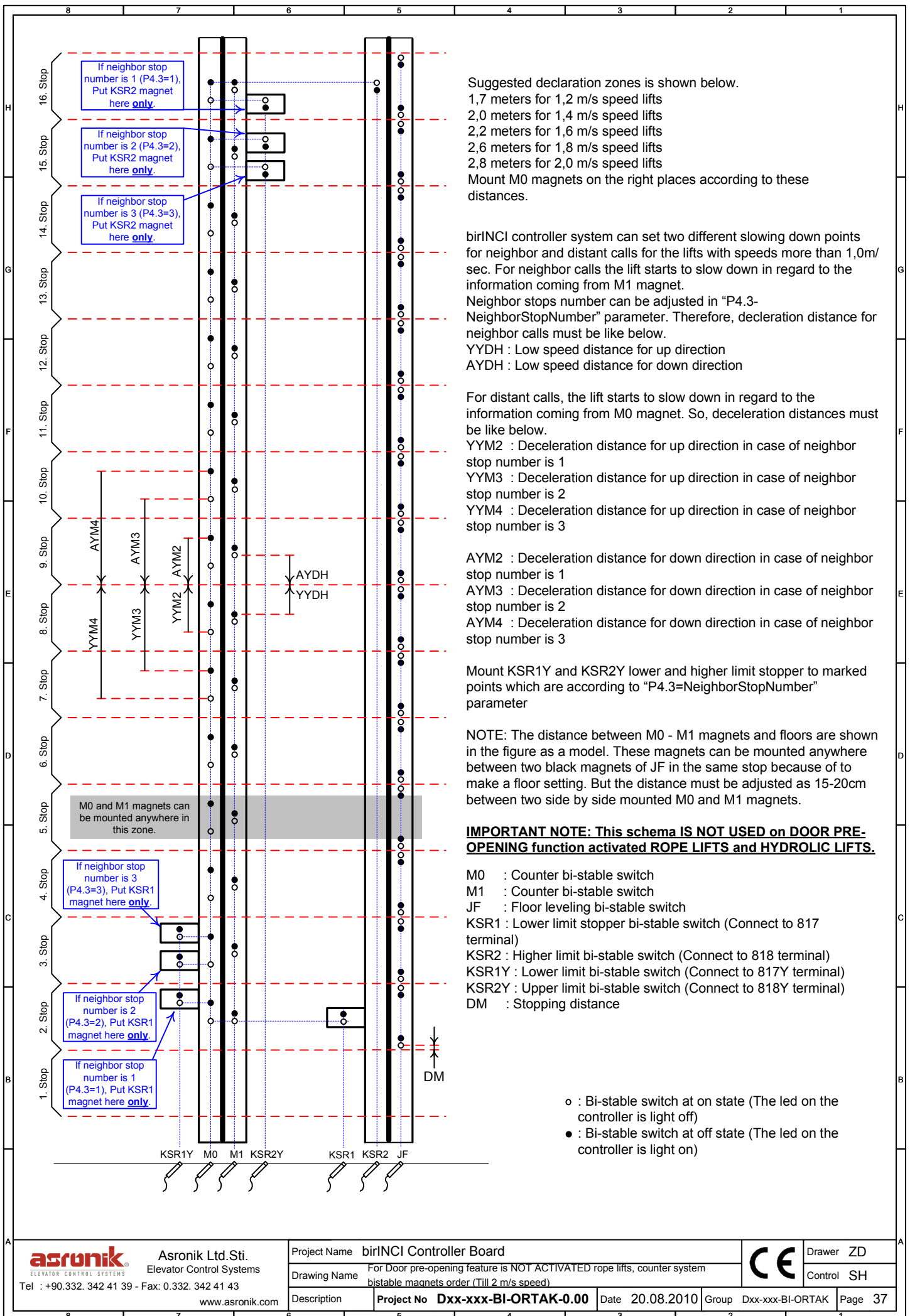


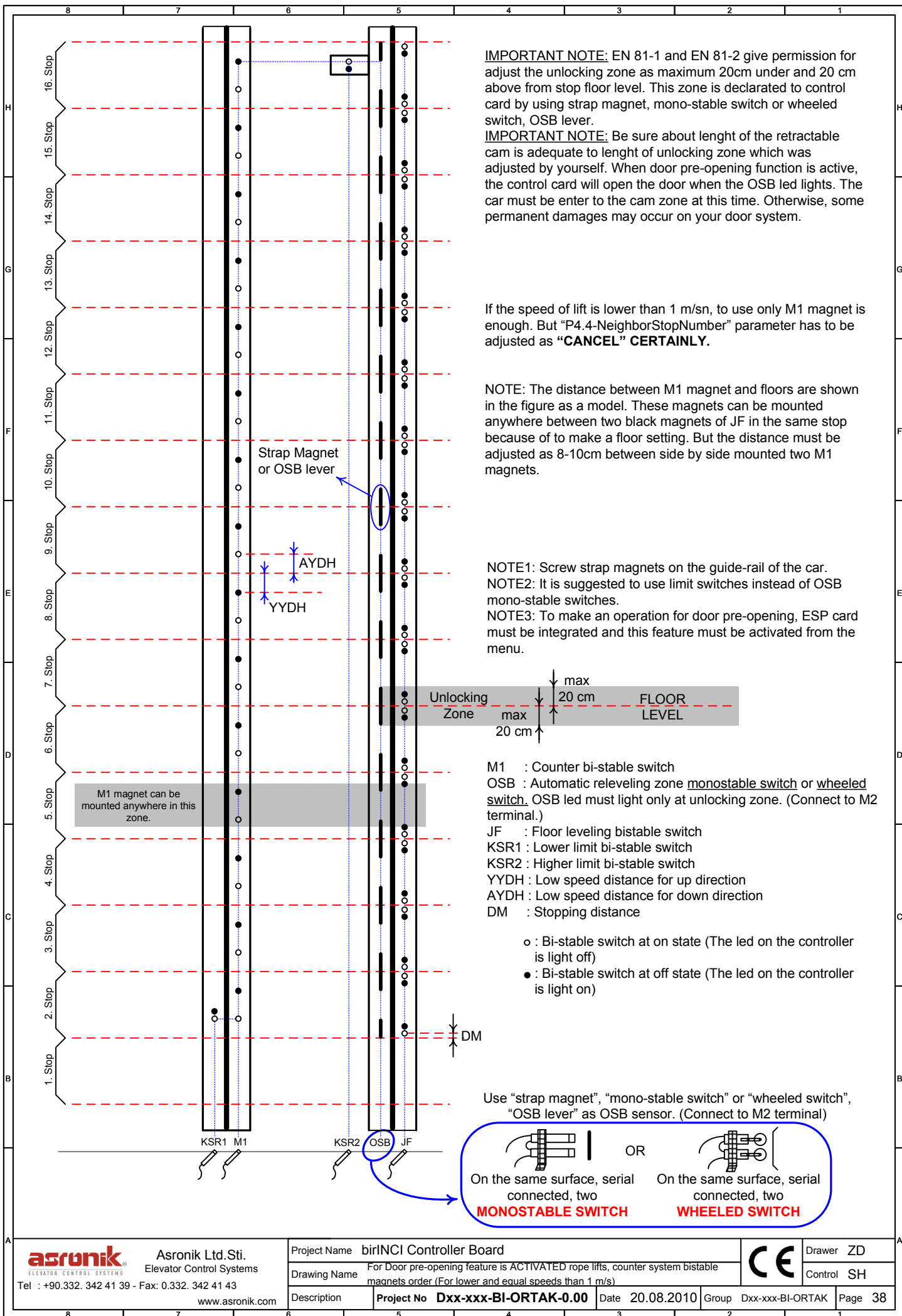


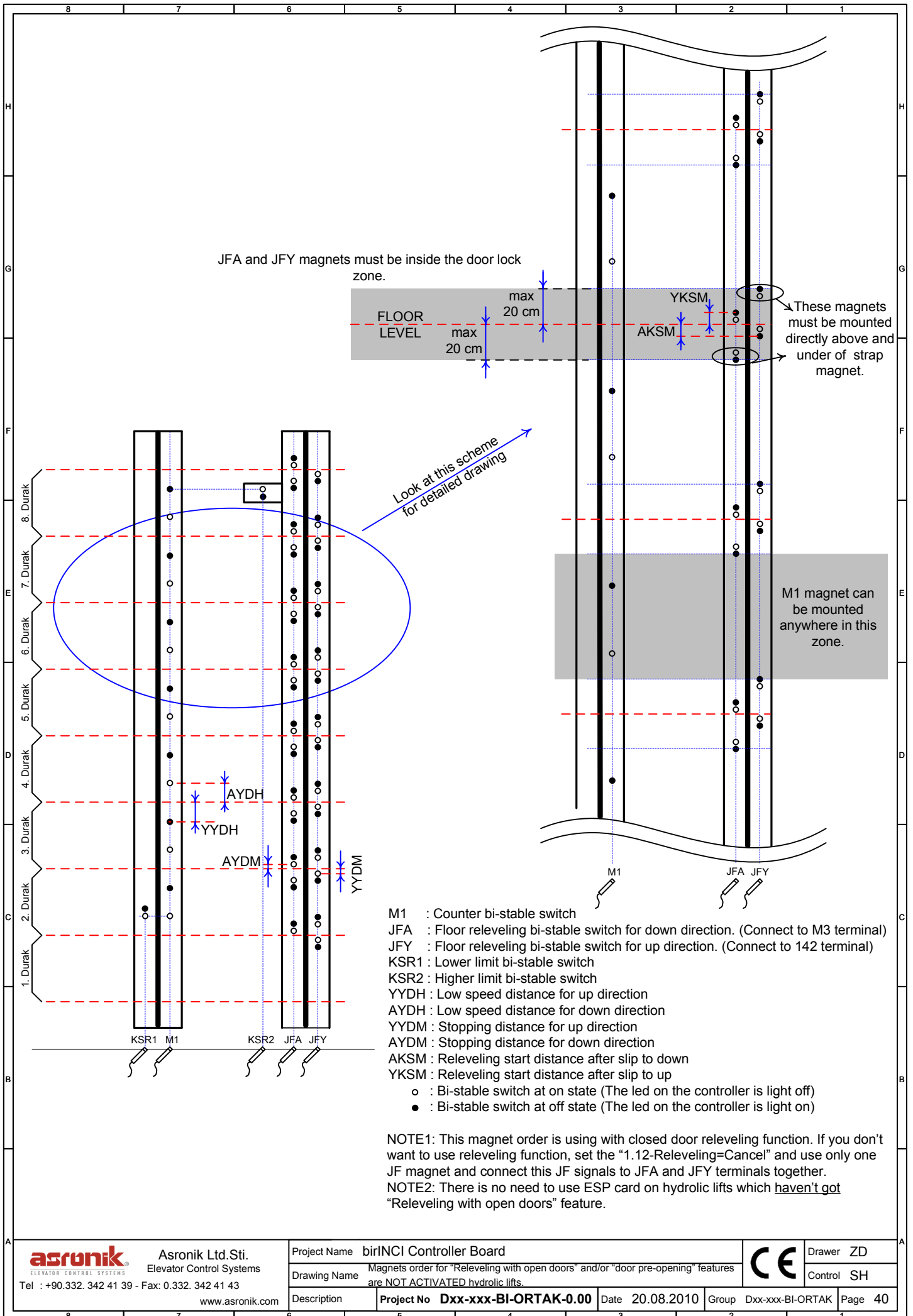












IMPORTANT NOTE: EN 81-1 and EN 81-2 give permission for adjust the unlocking zone as maximum 20cm under and 20 cm above from stop floor level. This zone is declared to control card by using strap magnet, mono-stable switch or wheeled switch, OSB lever.

IMPORTANT NOTE: Be sure about lenght of the retractable cam is adequate to lenght of unlocking zone which was adjusted by yourself. When door pre-opening function is active, the control card will open the door when the OSB led lights. The car must be enter to the cam zone at this time. Otherwise, some permanent damages may occur on your door system.

VERY IMPORTANT !!!
OSB led must light only at this zone

FLOOR LEVEL

Unlocking Zone

max 20 cm

max 20 cm

YKSM

AKSM

These magnets must be mounted directly above and under of the unlocking zone.

Look at this scheme for detailed drawing

M1 magnet can be mounted anywhere in this zone.

M1 : Counter bi-stable switch

OSB : Automatic releveing zone monostable switch or wheeled switch. OSB led must light only at unlocking zone. (Connect to M2 terminal.)

JFA : Floor leveling bi-stable switch for down direction (Connect to M3 terminal)

JFY : Floor leveling bi-stable switch for up direction (Connect to 142 terminal)

KSR1 : Lower limit bi-stable switch

KSR2 : Higher limit bi-stable switch

YYDH : Low speed distance for up direction

AYDH : Low speed distance for down direction

YYDM : Stopping distance for up direction

AYDM : Stopping distance for down direction

AKSM : Releveling start distance after slip to down

YKSM : Releveling start distance after slip to up

○ : Bi-stable switch at on state (The led on the controller is light off)

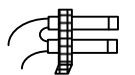
● : Bi-stable switch at off state (The led on the controller is light on)

NOTE1: Screw strap magnets on the guide-rail of the car.

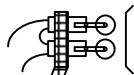
NOTE2: It is suggested to use limit switches instead of OSB mono-stable switches.

NOTE3: To make an operation for door pre-opening, ESP card must be integrated and this feature must be activated from the menu.

Use "strap magnet", "mono-stable switch" or "wheeled switch", "OSB lever" as OSB sensor.



OR



On the same surface, serial connected, two
MONOSTABLE SWITCH

On the same surface, serial connected, two
WHEELED SWITCH

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ELEVATOR CONTROL SYSTEMS

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Asronik Ltd.Sti.
Elevator Control Systems

Project Name birINCI Controller Board

Drawing Name Magnets order for "Releveling with open doors" and/or "door pre-opening" features are ACTIVATED hydraulic lifts.

Description

Project No Dxx-xxx-BI-ORTAK-0.00

Date 20.08.2010

Group Dxx-xxx-BI-ORTAK

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CE

Drawer ZD

Control SH

CALL BUTTONS CONNECTION PRINCIPLE

Call Inputs of Control Board

CALL TERMINALS CONTROL TYPE	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16
	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416
Simple Collective Complex Collective (Maximum 16 stops)																
One button down collective One button up collective One button full collective (Maximum 8 stops)	601	602	603	604	605	606	607	608	401	402	403	404	405	406	407	408
Two button full collective (Maximum 6 stops)	202	203	204	205	206	301	302	303	304	305	401	402	403	404	405	406

202-216 : Down external calls.

301-315 : Up external calls.

401-416 : Car internal calls.

601-616 : External calls.

CALL BUTTONS CONNECTION PRINCIPLE WITH ADDITIONAL CALL CARD

Call Inputs of Control Board

Call Inputs of ECK16 Call Card

CALL TERMINALS CONTROL TYPE																																	
	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16		Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11	Y12	Y13	Y14	Y15	Y16
One button down collective One button up collective One button full collective (Maximum 16 stops)	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616		401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416
Two button full collective (Maximum 11 stops)	202	203	204	205	206	207	208	209	210	211	301	302	303	304	305	306		307	308	309	310	401	402	403	404	405	406	407	408	409	410	411	BOŞ

CALL BUTTONS CONNECTION PRINCIPAL

Call Inputs of Control Card

CALL TERMINALS CONTROL TYPE	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16
Simple Collective																
Complex Collective																
One button down collective	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616
One button up collective																
One button full collective (Maximum 16 stops)																
Two button full collective (Maximum 9 stops)	202	203	204	205	206	207	208	209	301	302	303	304	305	306	307	308

NOTE: Car calls are connected to serial communication card which is mounted to above the car.

202-216 : Down external calls.

301-315 : Up external calls.

401-416 : Car internal calls.

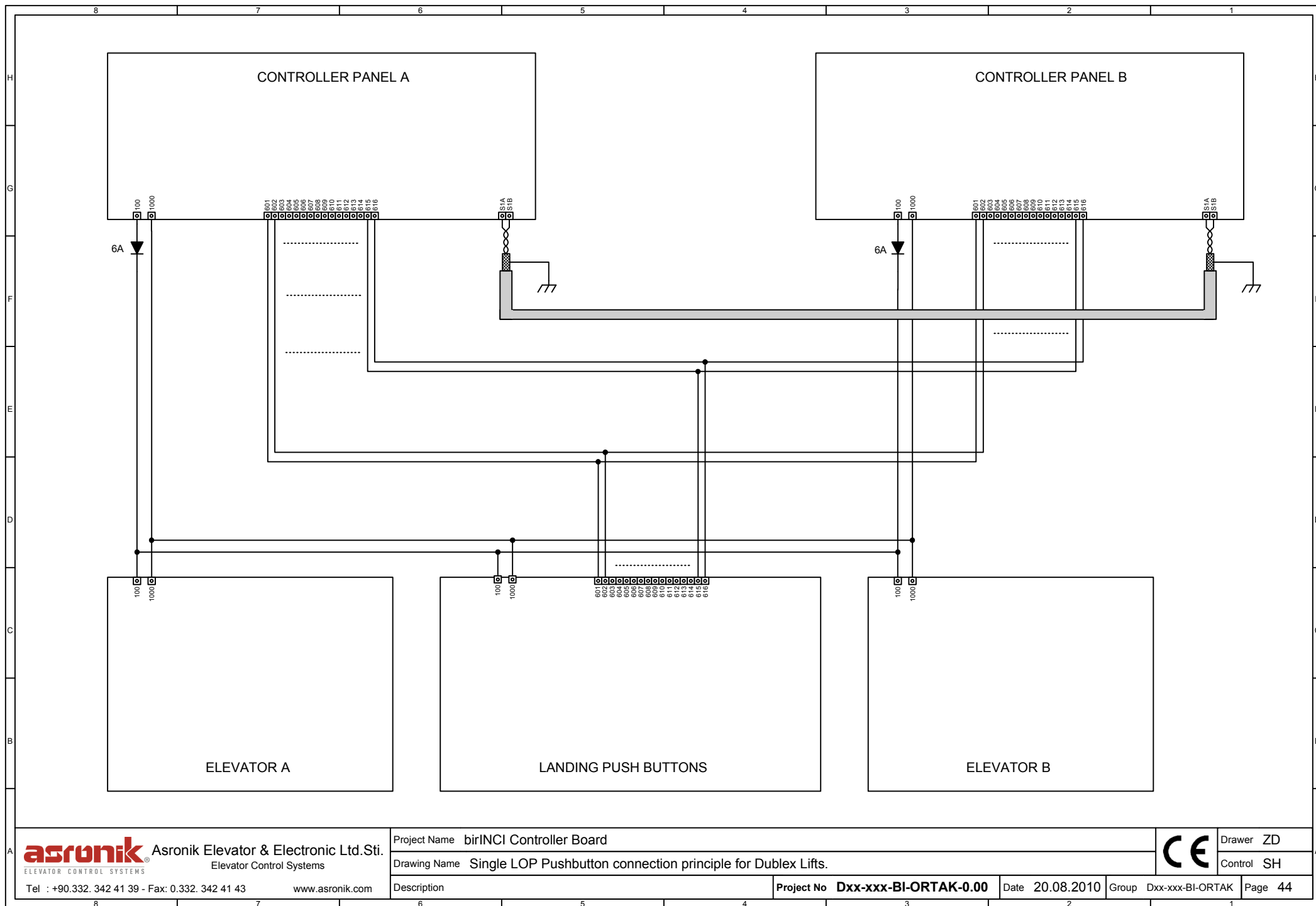
601-616 : External calls.

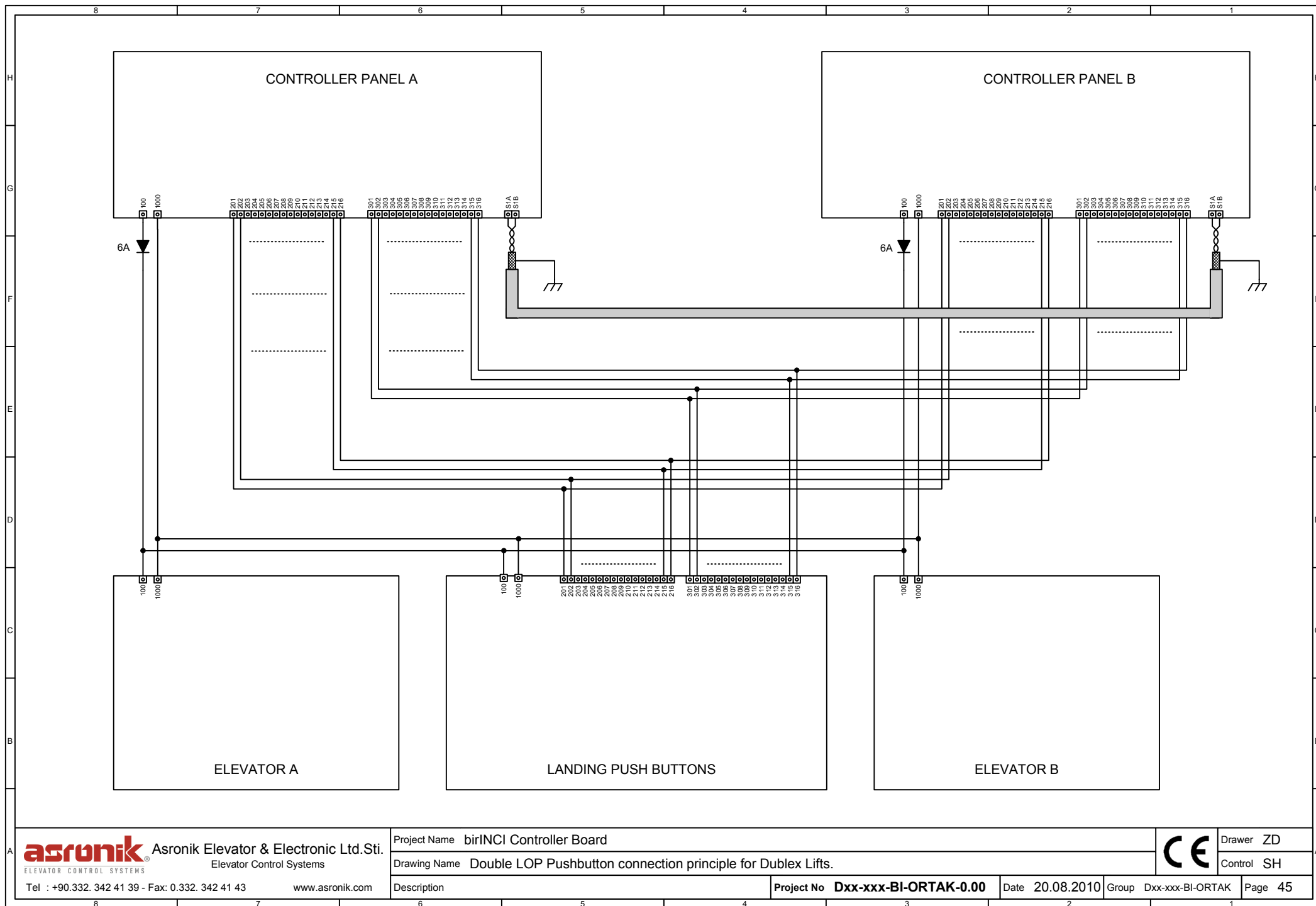
CALL BUTTONS CONNECTION PRINCIPAL WITH ADDITIONAL CALL CARD

Call Inputs of Control Card

Call Inputs of ECK16 Call Card

CALL TERMINALS CONTROL TYPE	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11	Y12	Y13	Y14	Y15	Y16
Two button full collective (Maximum 16 stops)	BO\$	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	BO\$







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