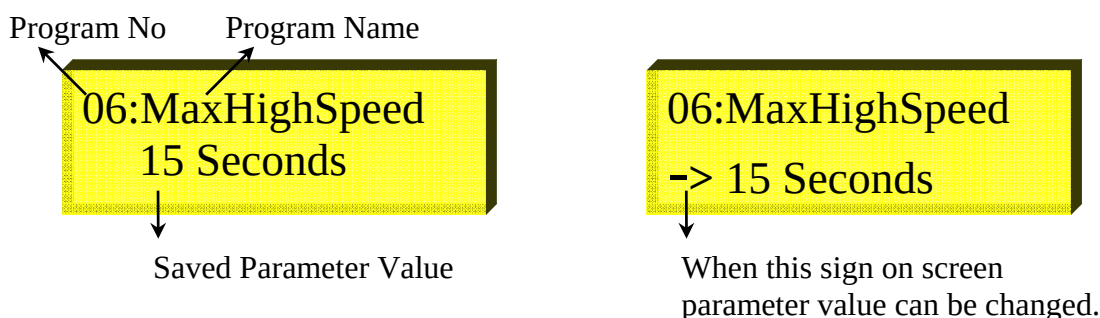


PROGRAMMING (Ver:2.7)

- 24VDC supply voltage of ML20ES board is cut off, when the voltage is applied again by pressing ENTER button for 2 seconds, programming mode starts.



- You can choose any program by using UP and DOWN buttons.
- To exit the programming mode ESC button in the main menu is used, ‘Exit Program’ is displayed on LCD screen. Press the ENTER button and exit the programming mode; to return the main menu again press the ESC button.
- When ENTER button in the main menu is pressed, the program on the screen starts.
- If the program has parameter, an arrow appears at the beginning of the second line of LCD screen. You can change the parameter value by using UP and DOWN buttons. To store the value, press the ENTER button and return the main menu. By pressing the ESC button the registered value is valid and you can return the main menu.

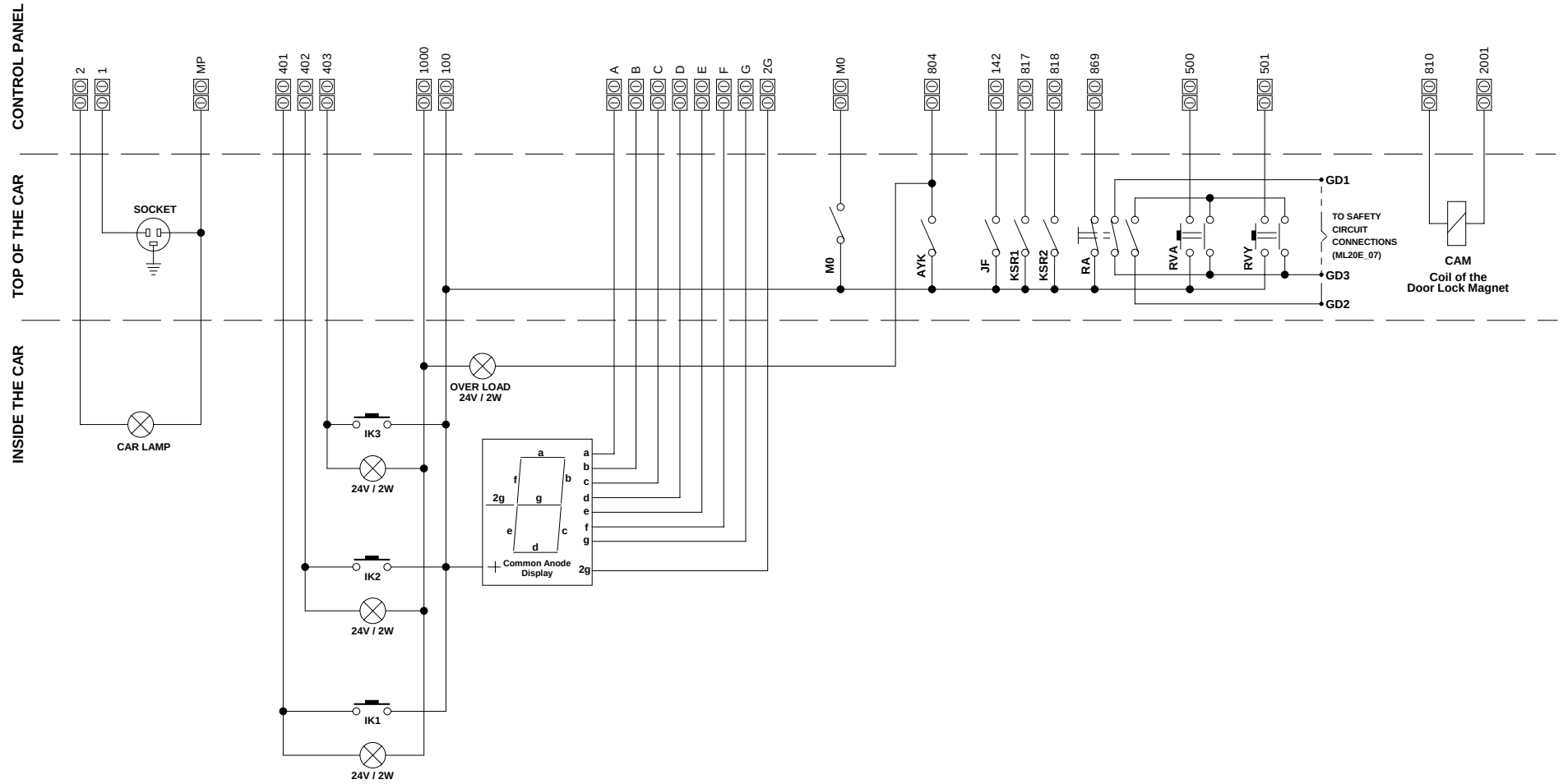
PARAMETERS

Program	Factory Set	Parameters / Explanations
00:Command Type	Up/DownMix2Spd	Universal (No collective,one speed) Universal2Spd (No collective,two speed) Up/DownMixCo. (Car Calls and Floor Calls are connected to the same terminal. They are collective in both directions.One speed) Up/DownMix2Spd (Car Calls and Floor Calls are connected to the same terminal. They are collective in both directions.Two speed)
01:Num.Of Floor	08	02-08
02:Door Type	CarDoorCamSi.	Not Automatic CarDoorCamSi. (Car door running with CAM signal) Full Automatic
03:Car LampTime	05 seconds	01-20 seconds (The duration of car lamp ON)
04:Lock WaitTime	15 seconds	05-25 seconds (After CAM energized waiting time for lock signal)
05:Wait At Floor	05 seconds	01-15 seconds (After stopping at floor if the door is not opened moving time for the next call)
06:Max.HighSpeed	15 seconds	10-100 seconds (Max moving time at high speed between two floors)
07:Max.Low Speed	10 seconds	05-20 seconds (Max moving time at low speed)
08:Door OpenMax.	Passive	Passive, 01-240 seconds (Time of warning signal when the door keeps)
09:Parking Time	30 seconds	10-100 seconds (On stand-by, time of moving to park floor)
10:Park Floor	Passive	Passive,0,1,...8 (On stand-by, the park floor to go)

11:StopDel.Calls	Passive	Passive, Active (When pressed the stop button if the parameter value is passive, car calls are kept in the memory and vice versa)
12:Change Passw.	0000	(Changing password)
13:Cancel Passw.	0000	(Password is cancelled, new value is 0000)
14:Maintained ?		(After the maintenance it is run. After running day, and hour info, and stored fault info are deleted)
15:Maintain Time	45 day	10-240 day (The number of days for the maintenance warning)
16>Delete Fault?		(Stored faults info is deleted)
17..24:Floor 00(..,8) Disp =0 (..,8)	Floor=00,01,..,8 Disp =0,1,..,8	(Display outputs can be adjusted to every floor)
25:CallSCProtect	Active	Passive, Active (If the parameter is active short-circuit protection of the call lamps are provided by microcontroller and vice versa)
26:AutoOpenStyle	Passive	Passive, Active (If parameter is passive, the same floor call is not care when direction lamp is ON. If parameter is active when the same floor call is ON auto output is ON when direction lamp is ON)
27:Phase Protect	Not Sequence	Not Sequence (Phase Protection without Phase Sequence) With Sequence (Phase Protection with Phase Sequence) Out of service (Phase Protection out of service)
28:SingleFullAu.	Passive	Passive, 00,01,..,07 (Choosing the floor that has full automatic door which has only one full automatic door)
29:Ins.Mov.Type	To Limit Sw	To Limit Sw (In inspection, the car is moved to up/down limit switches) ToExactFloor (In inspection, the car is moved to up/down floor level)
30:TargetF.Flash	Passive	Passive, Active (Choosing twice flashes of the next floor when the car changed every floors)
31:DisplayOutput	Normal	Normal GrayCode (Applied to display segment outputs A=m0, B=m1, C=m2, D=m3 gray-code datas) Binary (Applied to display segment outputs A=m0, B=m1, C=m2, D=m3 binary datas)
32:Phase Level	50	Passive, 01-100 (Phase level sensitivity is controlled with this parameter, when the value is increased the lower existing phases are accepted)
33:PositionReset	Passive	Passive, Active (After the power off, when the card is energized, the car is moved to floor which has down limit bi-stable switch)
99:Factory Set ?		(All parameter values are changed into factory settings)

RC filters must connected across the coils of contactors !

 ML20E MİKROLİFT MÜHENDİSLİK	VERSION : 1.0	TWO SPEED CONTROL PANEL CONNECTIONS
	DATE : 19.11.2008 SCHEME NO : ML20E_03	



IKx : CAR CALL BUTTONS AND LAMPS
 M0 : PULSE BI-STABLE SWITCH
 AYK : OVERLOAD CONTACT
 JF : LEVELLING BI-STABLE SWITCH
 KSR1 : DOWN LIMIT BI-STABLE SWITCH
 KSR2 : UP LIMIT BI-STABLE SWITCH
 RA : INSPECTION CONTACT
 RVA : DOWN INSPECTION BUTTON
 RVY : UP INSPECTION BUTTON

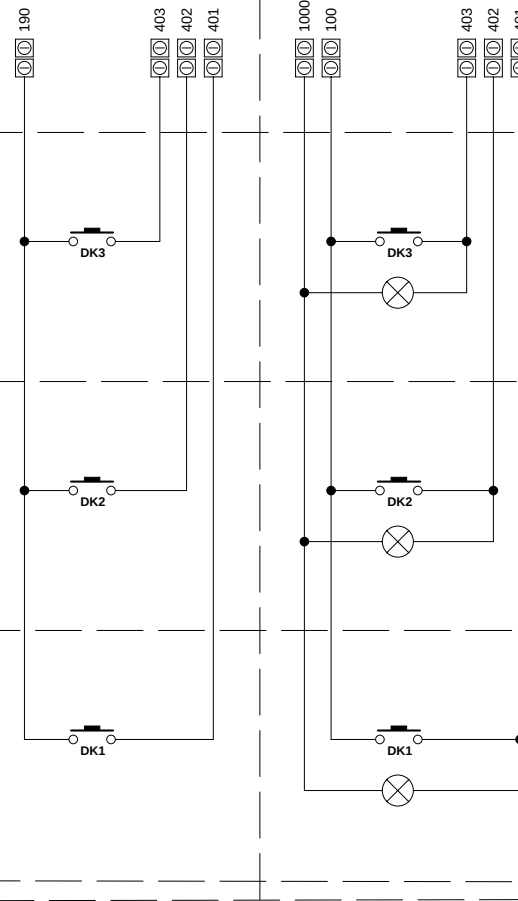
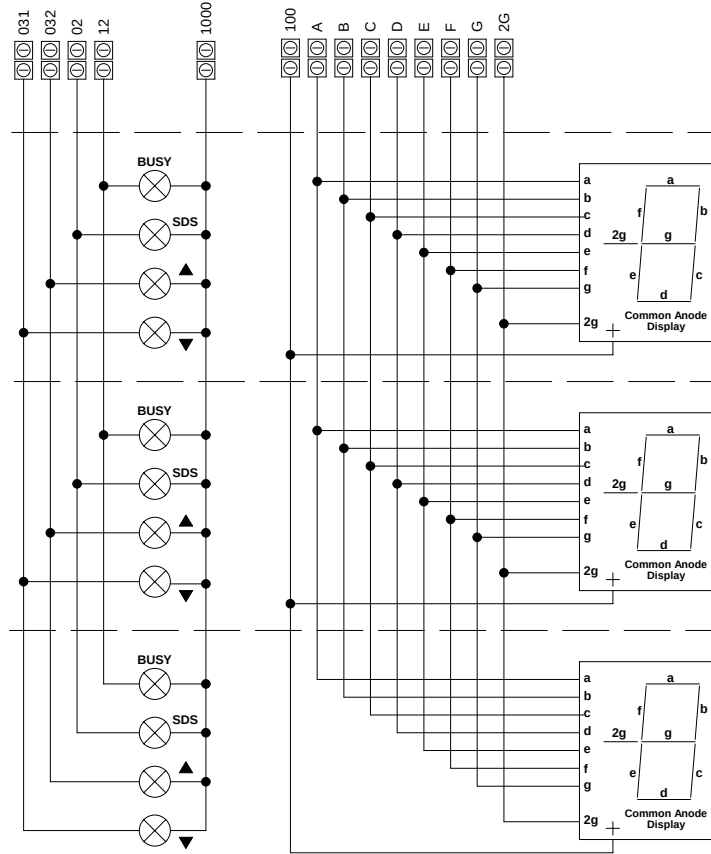
 ML20E MİKROLİFT MÜHENDİSLİK	VERSION : 1.0	CAR WIRING
	DATE : 19.11.2008	
	SCHEME NO : ML20E_04	

CONTROL PANEL

FLOOR 2

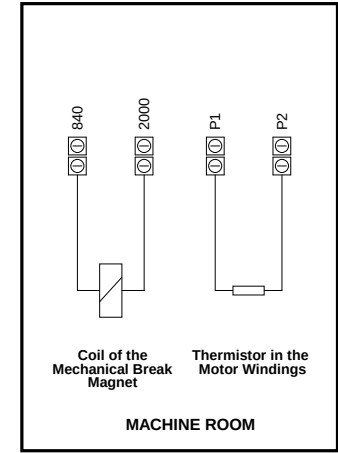
FLOOR 1

FLOOR 0

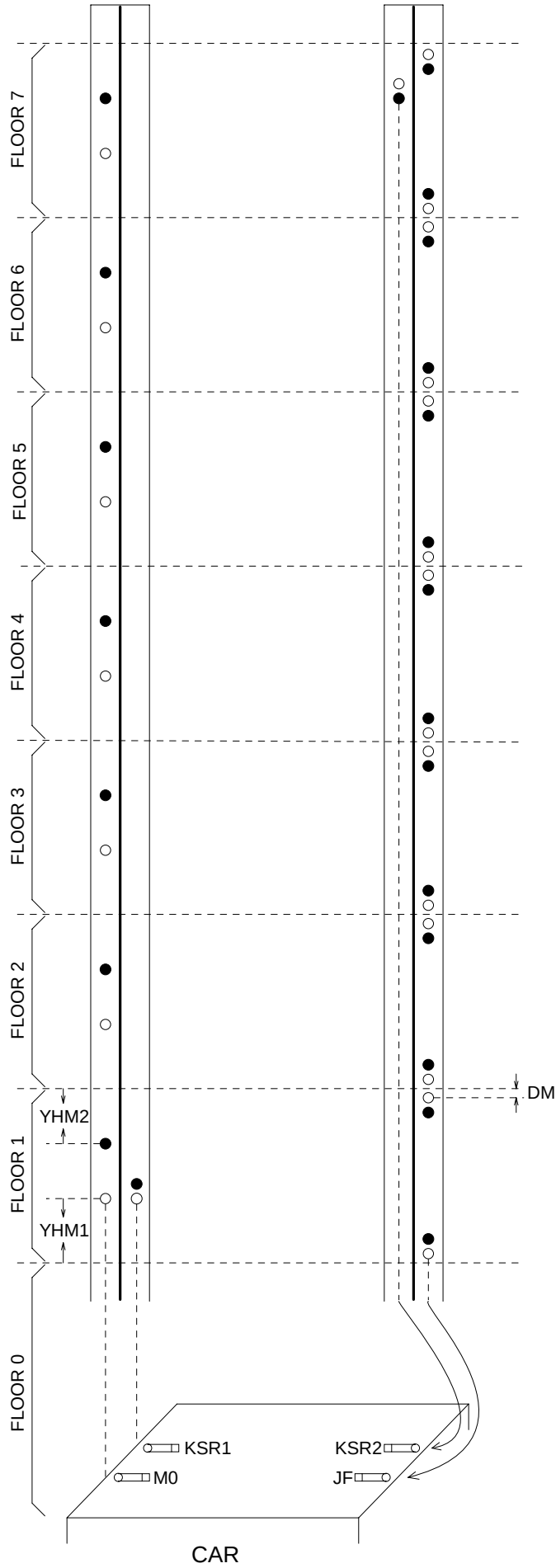


CALL CONNECTIONS

- DKx : CALL BUTTONS AND LAMPS
 SDS : OUT OF SERVICE LAMP
 (Circle with X) : 24 VOLT - MAX 2 WATT LAMP



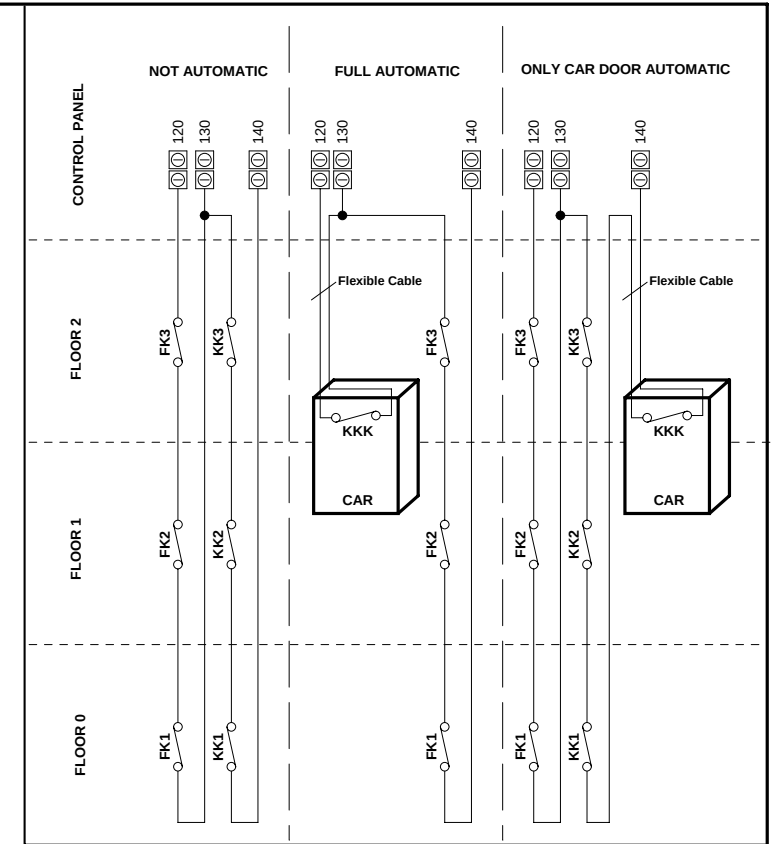
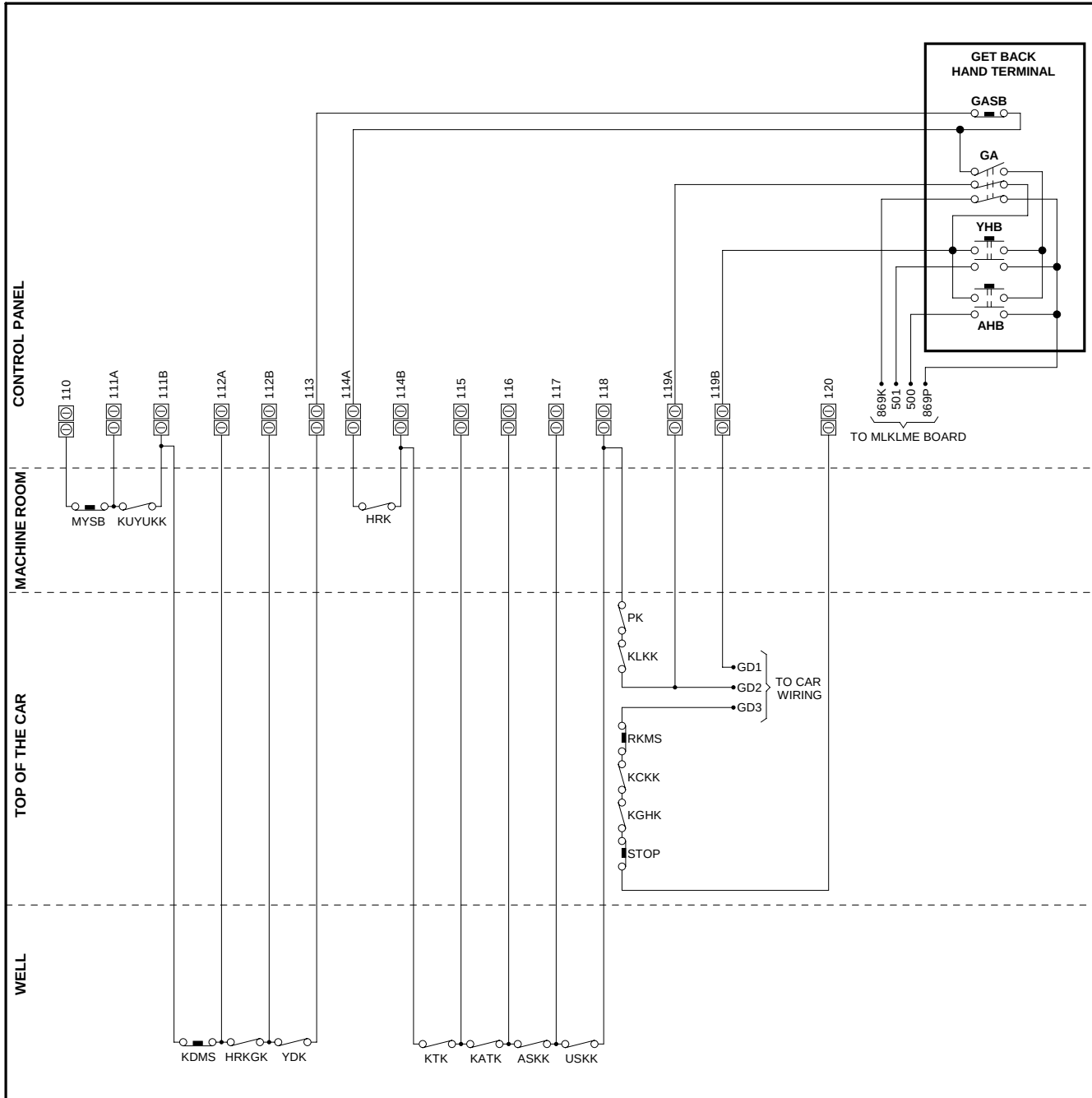
 ML20E MİKROLİFT MÜHENDİSLİK	VERSION : 1.0	FLOOR WIRING MECHANICAL BREAK AND THERMISTOR CONNECTIONS
	DATE : 19.11.2008	
	SCHEME NO : ML20E_05	



- M0 : PULSE BI-STABLE SWITCH
 JF : LEVELLING BI-STABLE SWITCH
 KSR1 : DOWN LIMIT BI-STABLE SWITCH
 KSR2 : UP LIMIT BI-STABLE SWITCH
 DM : STOPPING DISTANCE
 YHM1 : LOW SPEED DISTANCE IN DOWN DIRECTION
 YHM2 : LOW SPEED DISTANCE IN UP DIRECTION
- : BI-STABLE SWITCH IS CLOSED
 ○ : BI-STABLE SWITCH IS OPEN

 ML20E MIKROLİFT MÜHENDİSLİK	VERSION : 1.0
	DATE : 19.11.2008
	SCHEME NO : ML20E_06

PULSE SYSTEM MAGNET CONFIGURATION
 FOR TWO SPEED SYSTEM



- MYSB : TRACTION GEAR STOP BUTTON
- KUYUKK : WELL ACCESS CONTACT
- KDKS : PIT EMERGENCY STOP BUTTON
- HRKGK : TENSION WEIGHT CONTACT
- YDK : SPARE SAFETY CONTACT (IF NOT NEEDED MUST BE SHORT CIRCUIT)
- HRK : OVERSPEED GOVERNOR CONTACT
- KTK : BUFFER CONTACT
- KATK : COUNTER WEIGHT BUFFER CONTACT
- ASKK : PIT END LIMIT SWITCH CONTACT
- USKK : ULTIMATE LIMIT SWITCH CONTACT
- PK : OVERSPEED DETECTION CONTACT
- KLKK : CAR LIMIT SWITCH CONTACT
- RKMS : INSPECTION EMERGENCY STOP BUTTON
- KCKK : CAR TOP COVER CONTACT
- KGHK : CAR SLACK ROPE CONTACT
- STOP : CAR STOP BUTTON
- GASB : GET BACK EMERGENCY STOP BUTTON
- GA : GET BACK CONTACT
- YHB : UP MOVEMENT BUTTON
- AHB : DOWN MOVEMENT BUTTON
- FKx : DOOR SOCKET SWITCHES
- KKx : DOOR LOCK SWITCHES
- KKK : CAR DOOR SWITCH

ML20E



**MİKROLİFT
MÜHENDİSLİK**

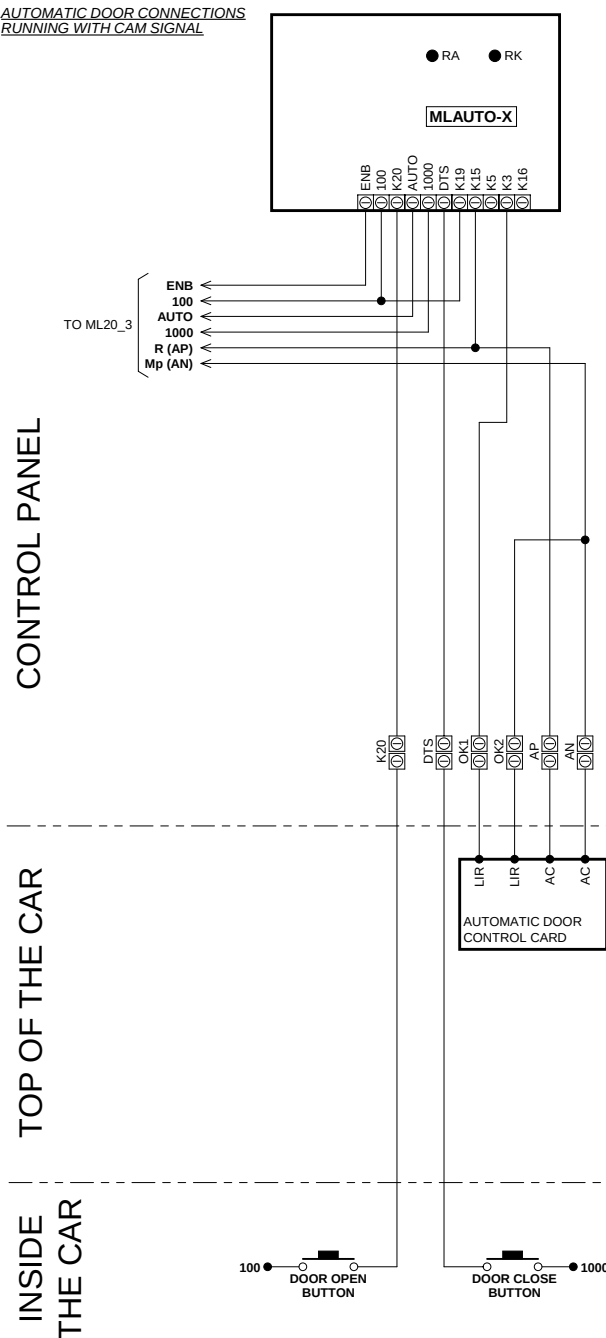
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DATE : 19.11.2008

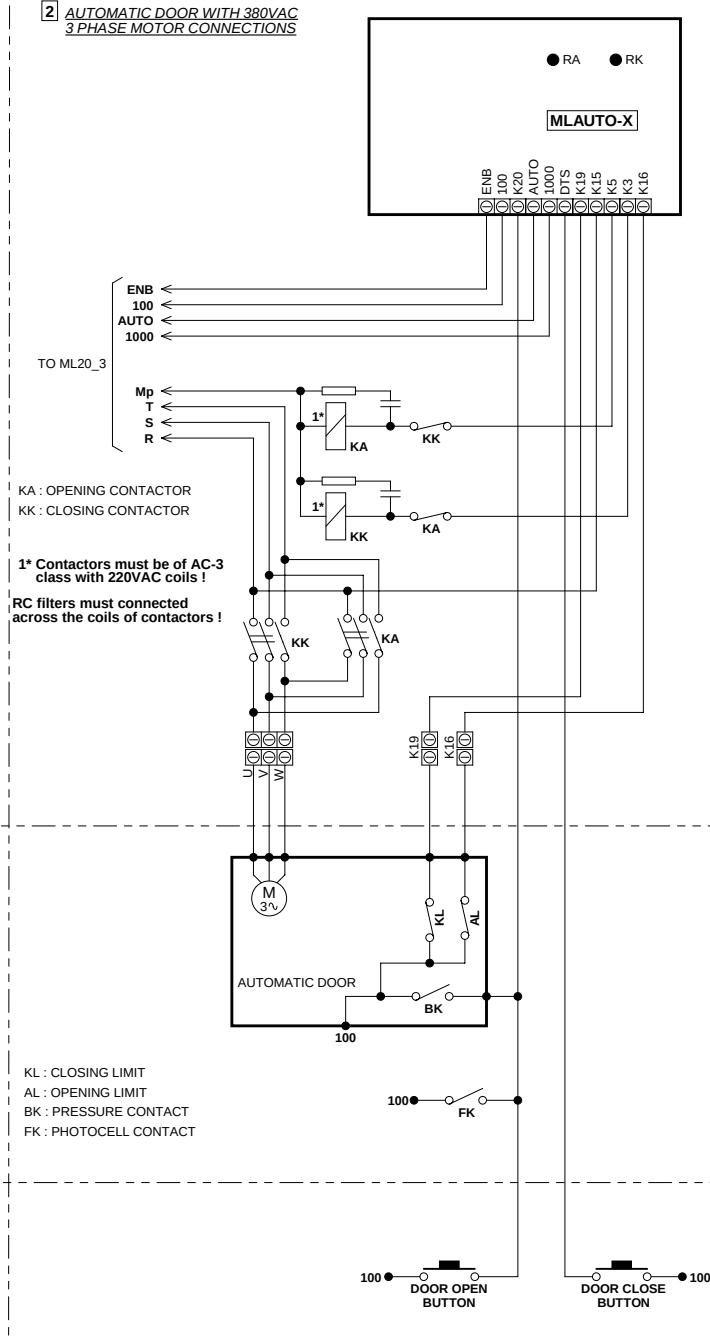
SCHEME NO : ML20E_07

SAFETY CIRCUIT CONNECTIONS

1 AUTOMATIC DOOR CONNECTIONS RUNNING WITH CAM SIGNAL



2 AUTOMATIC DOOR WITH 380VAC 3 PHASE MOTOR CONNECTIONS



3 AUTOMATIC DOOR CONNECTIONS **INCLUDING THEIR OWN CONTROL**

