

ELECMARKETING

Creator: Elecmarketing company

Project name: [Booster pump - 5 Pump](#)

Panel name: [Booster pump panel](#)

Working mode: [Mode 4](#)

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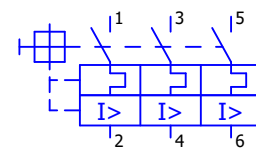
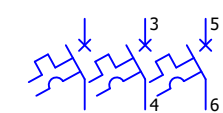
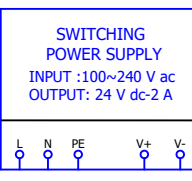
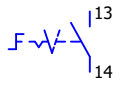
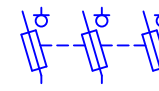
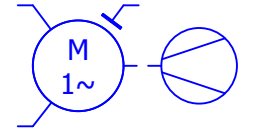
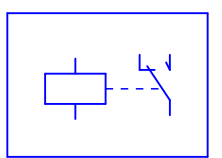
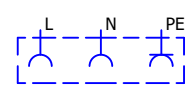
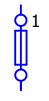
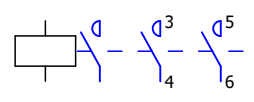
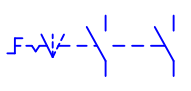
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[Scan: Telegram channel](#)

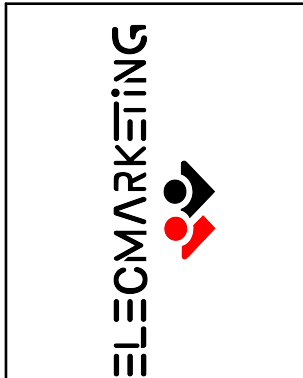
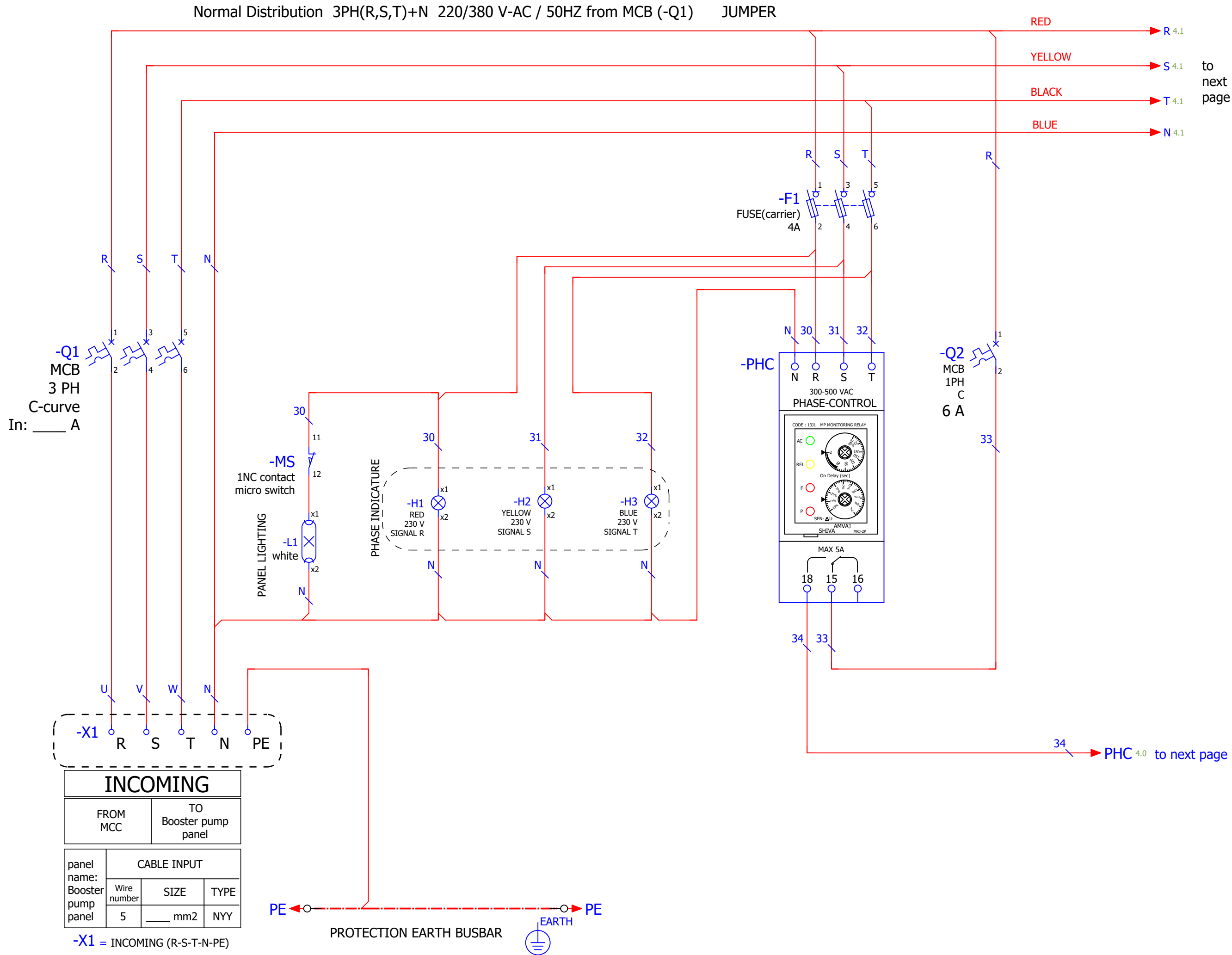
		
CREATOR : Elecmarketing Group	Drawing by : B.soltani	
Page number : 1	Number of pages: 10	
Page type : Graphic	Page Description : Table of contents	Mounting panel :MCP panel
Project description: Mode 4 Boosterpump 5 Pump	Power supply 3phase 400 Vac/50HZ	
CREATION DATE : 1403/09/20	Manufacturer : Elecmarketing company	Checked by : ENG.MOUSAVI

Symbol table

TAG	SIGN	DESCRIPTION	SYMBOL`s NAME	TAG	SIGN	DESCRIPTION	SYMBOL`s NAME
----		Auxiliary contact of control circuit diagram NO=normaly open NC=normaly close	CONTACT	-Q		MOTOR PROTECTION CIRCUIT BREAKER کلید حفاظتی اضافه بار موتور	MPCB
-U		Booster pump automatic control panel پنل کنترل اتوماتیک برنامه بوستر پمپ	Booster panel	-Q		Miniature circuit-breaker (3ph) کلید مینیاتوری سه فاز	MCB
-PS		Switching power supply 24 Vdc منبع تغذیه 24 ولت مستقیم	POWER SUPPLY	-Q		Miniature circuit-breaker (1ph) کلید مینیاتوری تکفاز	MCB
-P		Position selector switch (manually operated)-(0/1) کلید فرمان دو حالته	SELECTOR SWITCH	-F		Modular fuse carrier (3ph) فیوز کاربرد	FUSE
-m		FAN automat temperator controller فن تهویه هوا تابلو	FAN	-R		Relays, contactors رله با کنتاکت های نرمال باز و بسته	Relay
-SOC		Internal 1ph socket پریز تابلویی	socket	-PHC		control phase protection relay رله حفاظتی کنترل فاز	PHASE CONTROL
-F		Terminal FUSE with glass fuse ترمینال فیوز	TERMINAL FUSE	-K		CONTACTOR (3ph) کنتاکتور	POWER RELAY
-H		LAMP SIGNALING چراغ سیگنال	SIGNAL	AUTO HAND		Position selector switch (AUTO HAND)-(0/1/2) کلید فرمان سه حالته دستی و اتومات	SELECTOR SWITCH
-X		TERMINAL BLOCK ترمینال ریلی تابلویی	TERMINAL	-K		COIL of contactor بوبین کنتاکتور	BOIIN

		
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Page number : 2		
Page type : Graphic		Page Description : Symbol table
Project description: Mode 4 Boosterpump 5 Pump		
CREATION DATE : 1403/09/20		Power supply 3Phase 400 Vac/50HZ
Manufacturer : Elecmarketing company		
Checked by : ENG.MOUSAVI		Mounting panel :MCP panel

NOTE : technical charactristics and current rating : according to design
توجه: مشخصات فنی و جریان نامی تجهیزات : مندرج در نقشه



CREATOR : Elecmarketing Group	Drawing by : B.soltani
Page number : 3	Number of pages: 10
Page type : Schematic multi-line	Page Description : INCOMING
Project description: Mode 4 Boosterpump 5 Pump	Mounting panel :MCP panel
Manufacturer : Elecmarketing company	Power supply 3Phase 400 Vac/50HZ
CREATION DATE : 1403/09/20	Checked by : ENG.MOUSA VI

Normal Distribution 3PH(R,S,T)+N 220/380 V-AC / 50HZ from MCB (-Q1) JUMPER

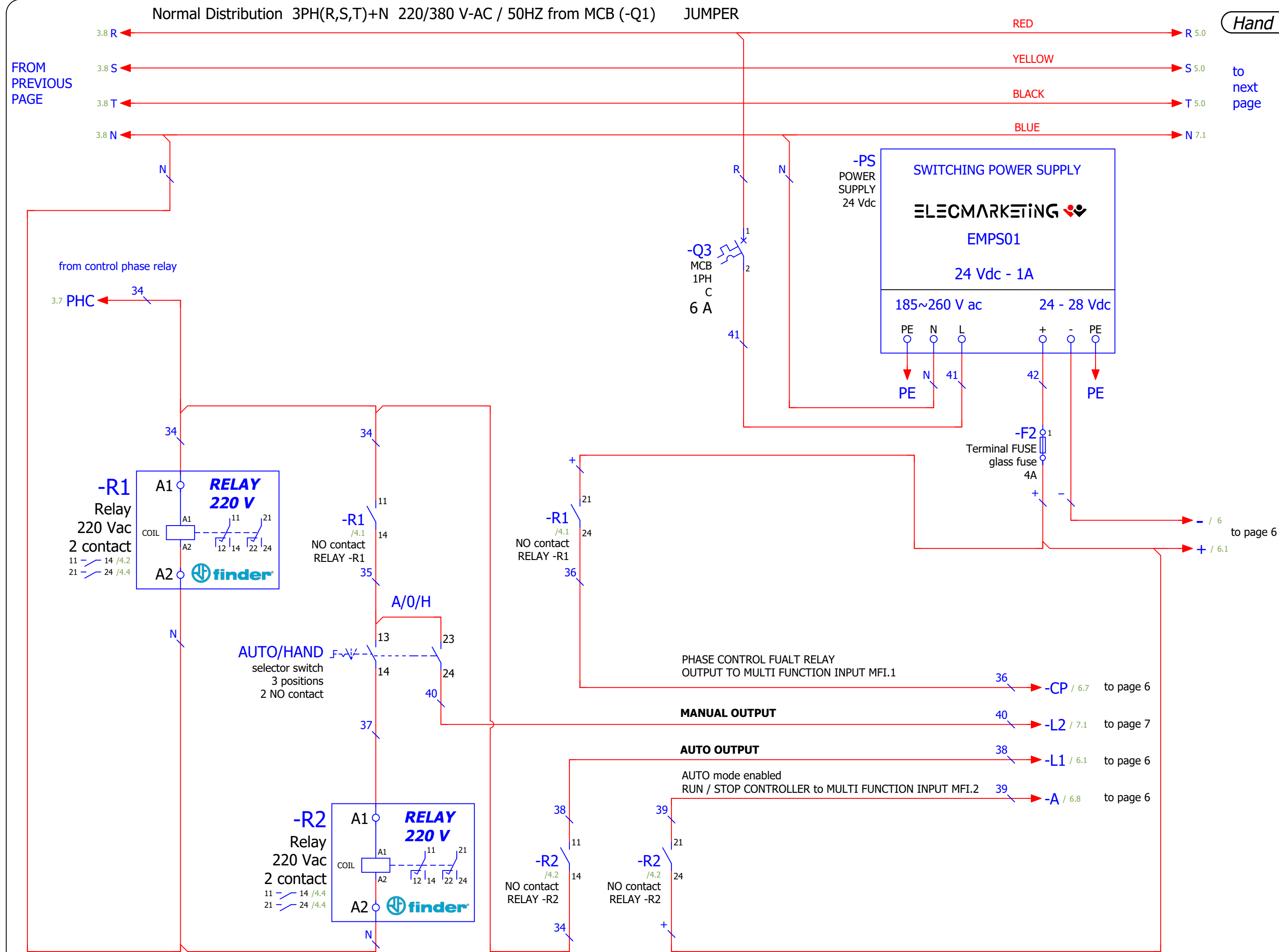
Hand & Auto diagram

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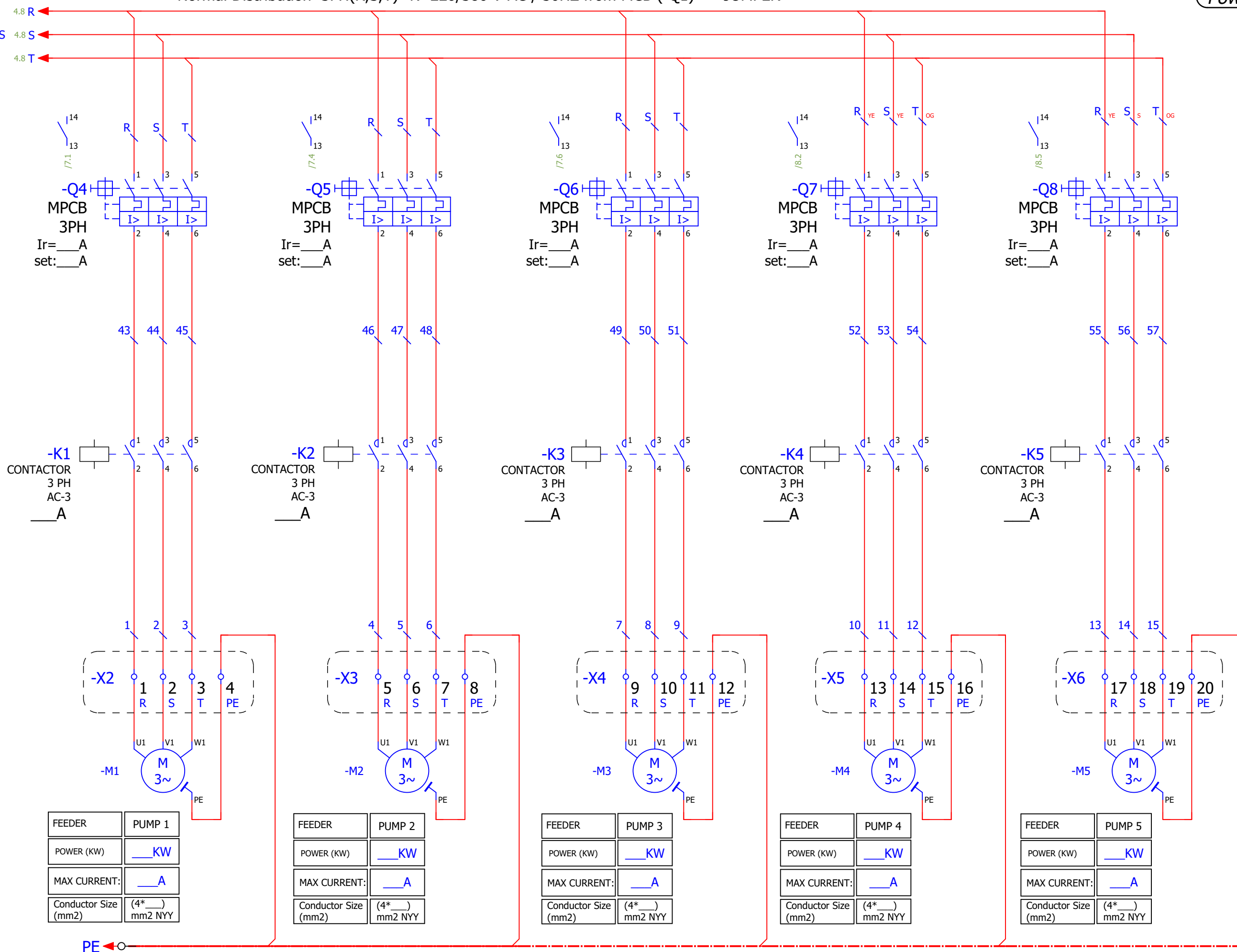
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Manufacturer : Elecmarketing company		Page Description : Hand & Auto diagram							
Checked by : ENG.MOUSAVI		Power supply 3Phase 400 Vac/50HZ		Mounting panel :MCP panel		Number of pages: 10			
						Drawing by : B.soltani			



Normal Distribution 3PH(R,S,T)+N 220/380 V-AC / 50HZ from MCB (-Q1) JUMPER

Power circuit diagram

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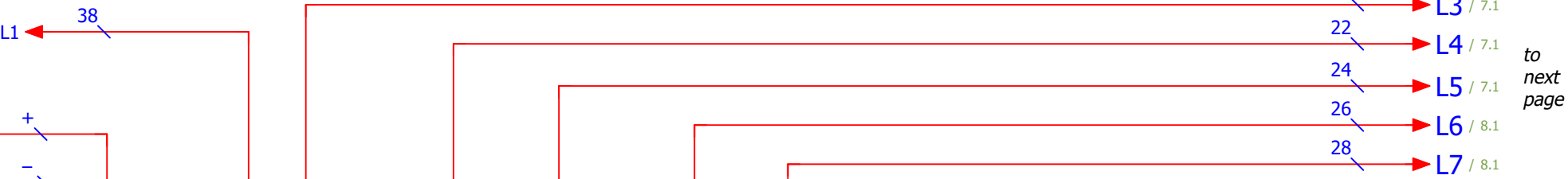


ELC MARKETING		
CREATOR : Elecmarketing Group	Drawing by : B.soltani	
Page number : 5	Number of pages: 10	
Page type : Schematic multi-line	Page Description : Power circuit diagram	Mounting panel :MCP panel
Project description: Mode 4 Boosterpump 5 Pump	Manufacturer : Elecmarketing company	
CREATION DATE : 1403/09/20	Checked by : ENG.MOUSAVI	Power supply 3Phase 400 Vac/50HZ

230 Vac from first contact of RELAY 2 (-R2) AUTO mode

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24 VDC IN

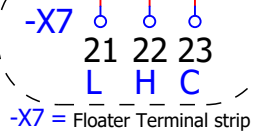
ELECMARKETING

Mode1	FW1 Pump 1		FW2 Pump 2	Pump 3		Pump 4	Pump 5			MFO3	MFO2	MFO1
Mode2	FW1		Pump 1			Pump 2			Pump 3	Pump 4		MFO1
Mode3	FW1		DC1	MC1		DC2	MC2		DC3	MC3		
Mode4	pump 1		Pump 2	Pump 3		Pump 4	Pump 5					
Mode5	Jockey											
Mode6												
Mode 7,8	FW1		DC1	MC1		DC2	MC2		DC3	MC3	MFO3	MFO2
Mode 9,10	FW1		DC1	MC1		DC2	MC2		DC3	MC3	DC4	MC4
											FW2	

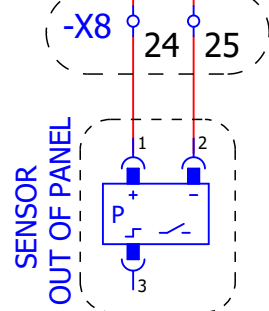
Power: 18 - 24 VDC
Input: 5* PR - 5* MFI - 24 VDC
Sensor: 0-10 VDC or 0-20 m

Output: Relay 250 V 10A
Analog out: 2* 0-10 VDC

24 VDC OUT

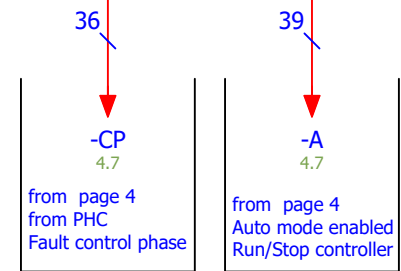
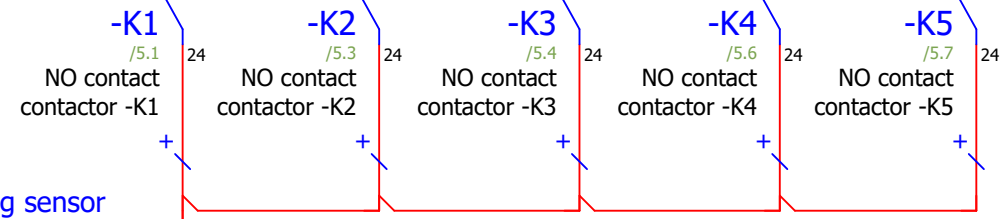


-X7 = Floater Terminal strip



Pressure Transmitter
0 - 20 or 4 - 20 ma Analog sensor

-X8 = Pressure Transmitter Terminal strip



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4.8 / +
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24 Vdc from Switching power supply -PS

Controller schematic diagram

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CREATOR :
Elecmarketing Group

Drawing by :
B.soltani

Page number : 6

Number of pages: 10

Page type :
Schematic multi-line

Page Description :
Controller schematic diagram

Mounting panel : MCP panel

Project description:
Mode 4 Boosterpump
5 Pump

Manufacturer : Elecmarketing company

Power supply
3phase 400 Vac/50HZ

CREATION DATE :
1403/09/20

Checked by :
ENG.MOUSAVI

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from output Relay of booster pump controller

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0/1
-P1 selector switch
2 positions
1 NO contact

0/1
-P2 selector switch
2 positions
1 NO contact

0/1
-P3 selector switch
2 positions
1 NO contact

NO contact
of MPCB -Q4

NO contact
of MPCB -Q5

NO contact
of MPCB -Q6

1		2	/5.1
3		4	/5.1
5		6	/5.1
23		24	/6.4

1 2 /5.3
3 4 /5.3
5 6 /5.3
23 24 /6.4

1		2	/5.4
3		4	/5.4
5		6	/5.5
23		24	/6.5

-X9 = Pressure switch Terminal strip

-X10 = Pressure switch Terminal strip

-X11 = Pressure switch Terminal strip

4.8 N ← NULL

► N



CREATOR :
Elecmarketing Group

Drawing by :

Page number : 7

Number of pages: 10

Page type :

Page Description :

Mounting panel : MCP panel

Project description:
Mode 4 Boosterpump
5 Pump

Manufacturer : Elecmarketing company

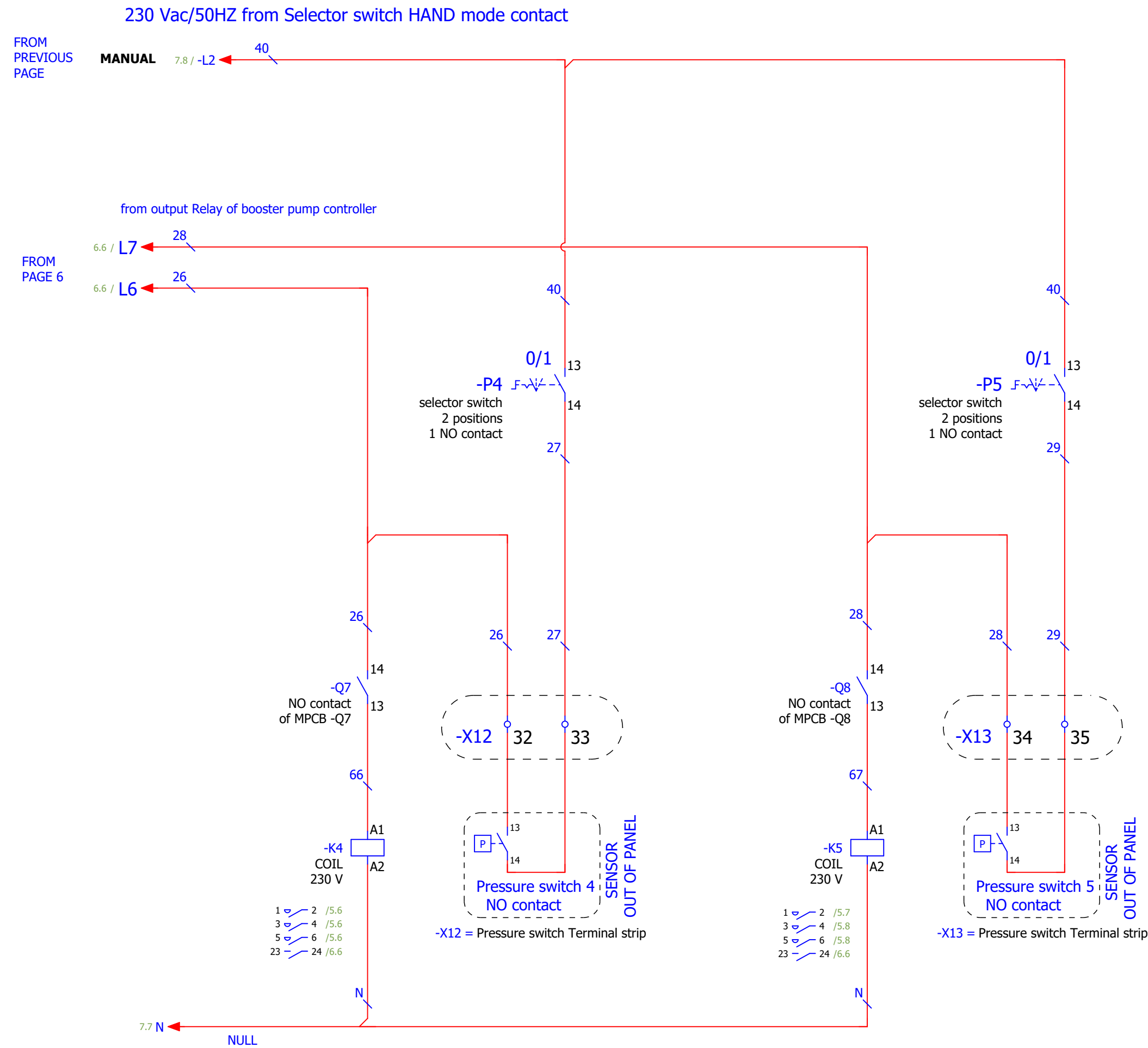
Checked by : ENG. MOUSAVI	Power supply 3Phase 400 V
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CREATION DATE :
1403/09/20

Manufacturer :

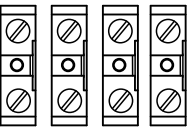
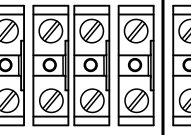
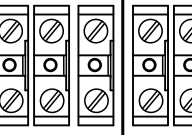
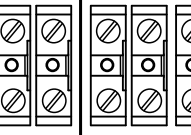
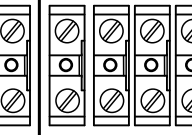
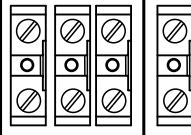
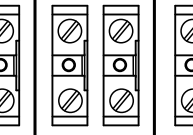
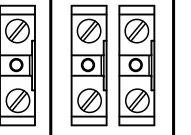
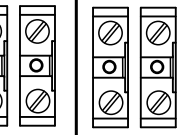
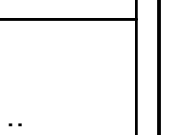
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ENG. MOUSAVI

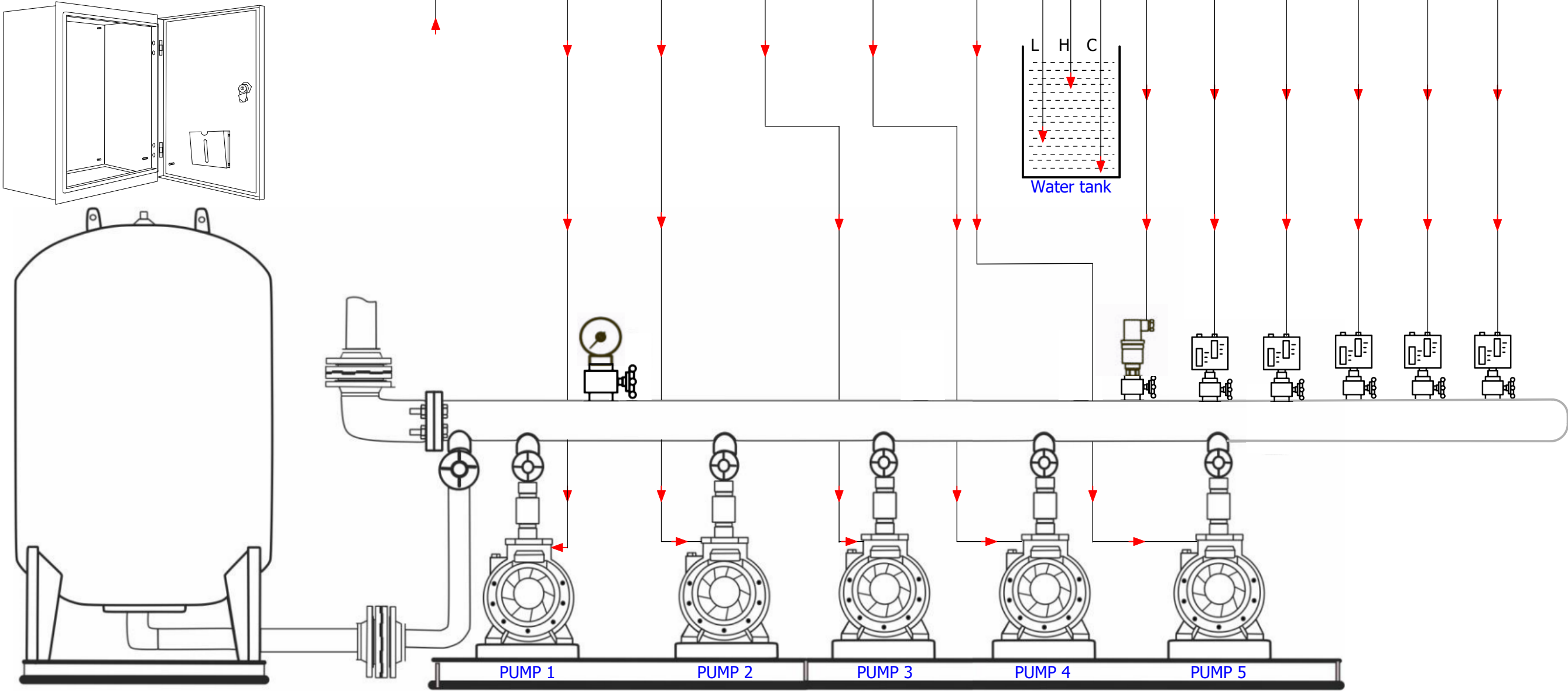
Control circuit diagram 2

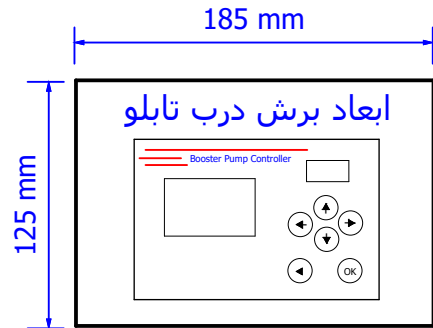


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CREATOR : Elecmarketing Group	Drawing by : B.soltani	
Page number : 8	Number of pages: 10	
Page type : Schematic multi-line	Page Description : Control circuit diagram 2	Mounting panel :MCP panel
Project description: Mode 4 Boosterpump 5 Pump	Manufacturer : Elecmarketing company	
CREATION DATE : 1403/09/20	Power supply 3Phase 400 Vac/50HZ	Checked by : ENG.MOUSA VI

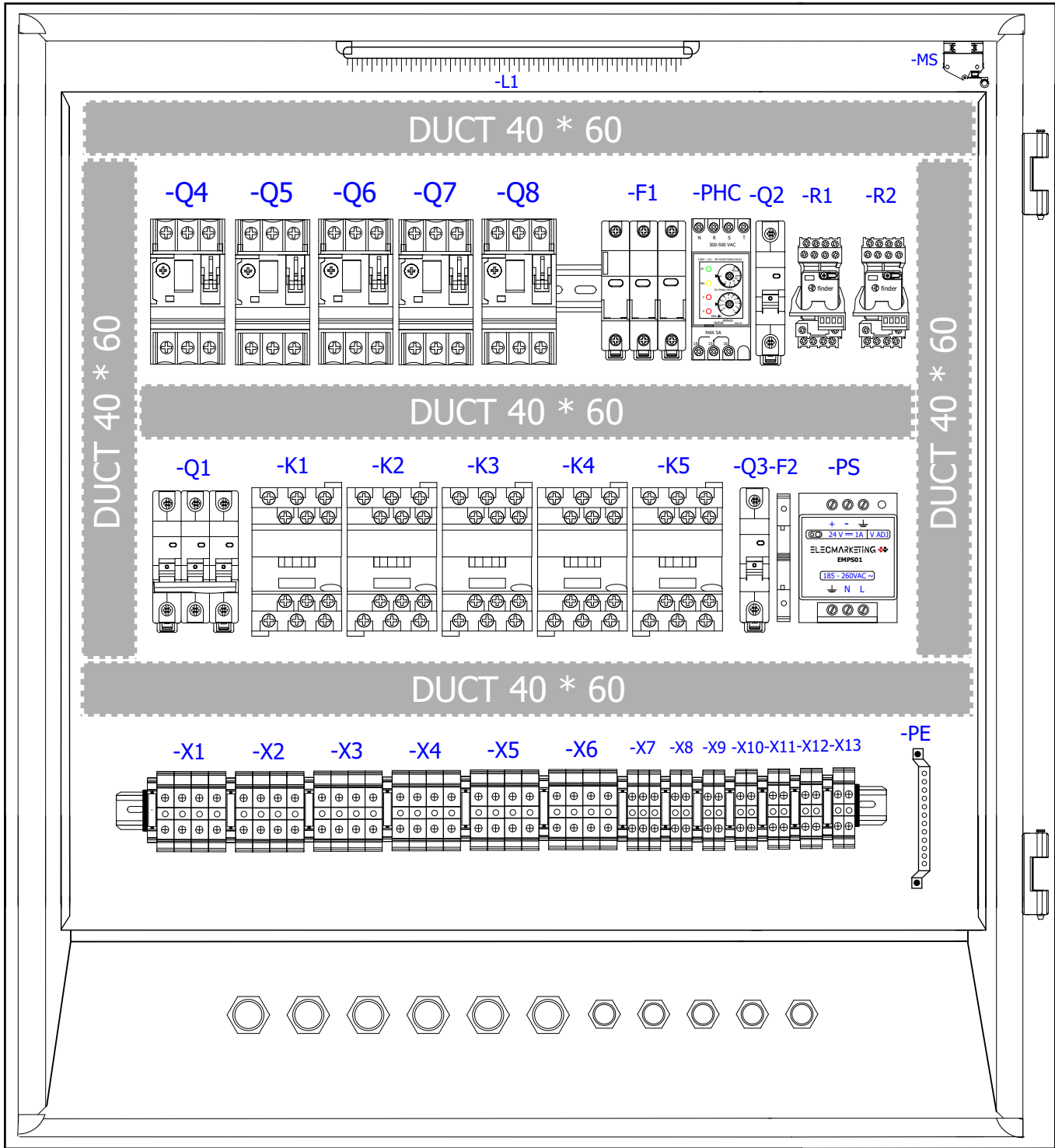
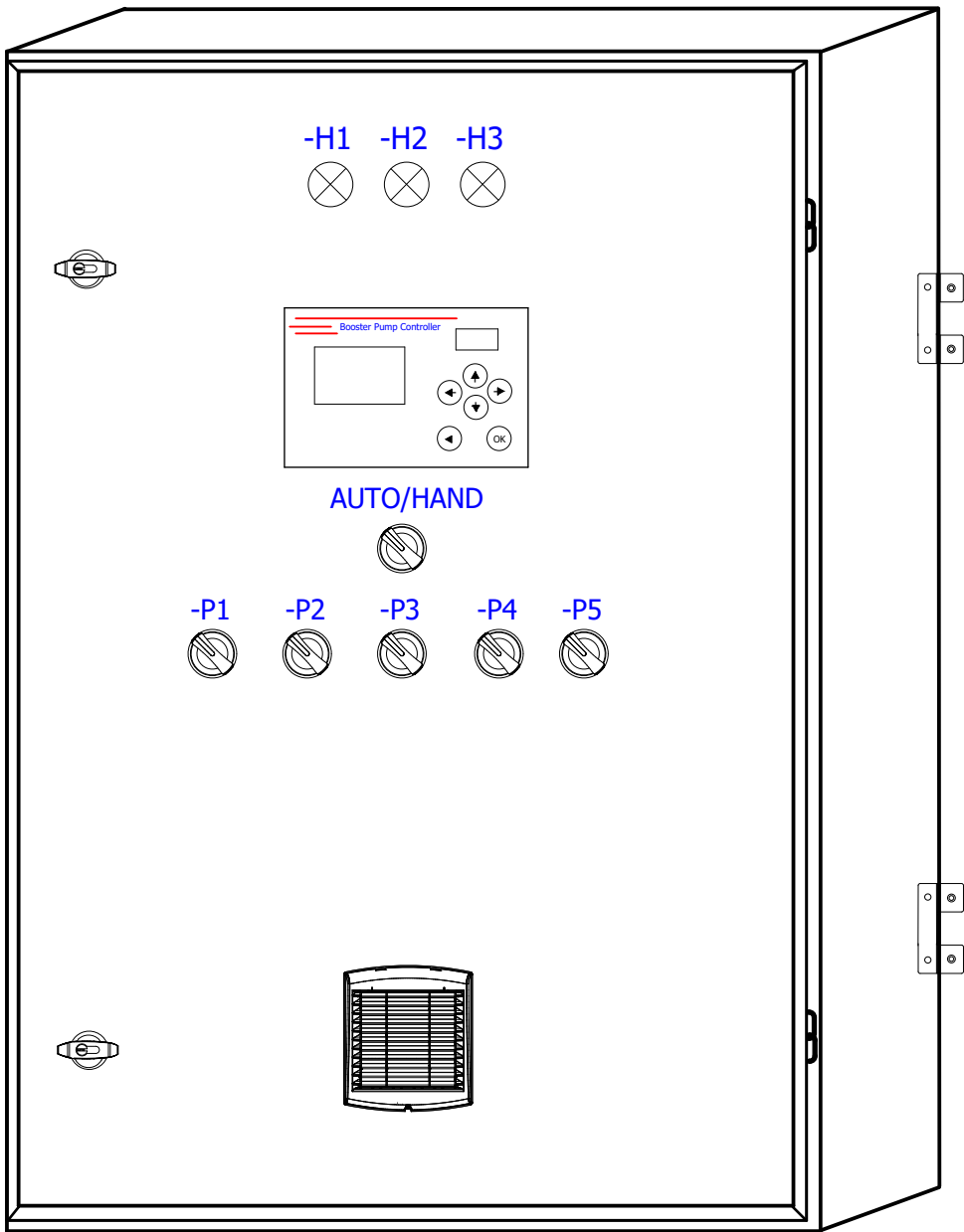
Booster pump overview

CONSUMER	Incoming	pump 1	pump 2	pump 3	pump 4	pump 5	Floater	Pressure Transmitter	Pressure Switch 1	Pressure Switch 2	Pressure Switch 3	Pressure Switch 4	Pressure Switch 5
TAG	-X1	-X2	-X3	-X4	-X5	-X6	-X7	-X8	-X9	-X10	-X11	-X12	-X13
TERMINAL STRIP													
number of terminal	R S T N	1 2 3 4	5 6 7 8	9 10 11 12	13 14 15 16	17 18 19 20	21 22 23	24 25	26 27	28 29	30 31	32 33	34 35





EXTERNAL VIEW



Panel layout

CREATION DATE : 1403/09/20		Project description: Mode 4 Boosterpump 5 Pump		Page type : Panel layout		Page number : 10		CREATOR : Elecmarketing Group		ELECMARKETING 	
Manufacturer : Elecmarketing company				Page Description : Panel layout		Number of pages: 10		Drawing by : B.soltani			
Checked by : ENG.MOUSAVI		Power supply 3Phase 400 Vac/50HZ		Mounting panel : MCP panel							