

ELECMARKETING

Creator: Elecmarketing company

Project name: [Mixed mode Booster pump - 2 DRIVE - 3 Pump](#)

Panel name: [Booster pump panel](#)

Working mode: [Mode 7 - 8 Booster pump](#)

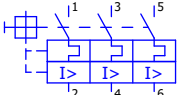
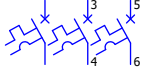
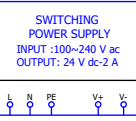
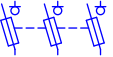
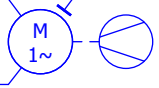
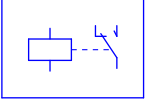
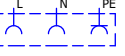
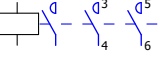
Description	Page	Description	Page
Table of contents	1	Controller schematic diagram	6
Symbol table	2	Control circuit diagram	7
INCOMING	3	Drive circuit diagram	8
Hand & Auto diagram	4	Booster pump overview	9
Power circuit diagram	5	Panel layout	10

[Table of contents](#)



[Scan: Telegram channel](#)

ELECMARKETING 	
CREATOR : Elecmarketing Group	Drawing by : B.soltani
Page number : 1	Number of pages: 10
Page type : Graphic	Page Description : Table of contents
Project description: Mode 7-8 Boosterpump 2 DRIVE - 3 Pump	Mounting panel : MCP panel
Manufacturer : Elecmarketing company	Power supply 3Phase 400 Vac/50HZ
CREATION DATE : 1403/10/1	Checked by : ENG.MOUSAVI

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 کاربر	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 بویلن کنتاکتور	BOIIN

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

Symbol table

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CREATION DATE : 1403/10/1		Project description: Mode 7-8 Boosterpump 2 DRIVE - 3 Pump	Page type : Graphic	Page number : 2	CREATOR : Elecmarketing Group
Manufacturer : Elecmarketing company			Page Description : Symbol table		
Checked by : ENG.MOUSAVI	Power supply 3Phase 400 Vac/50HZ		Mounting panel : MCP panel		
			Drawing by : B.soltani		
			Number of pages: 10		

22 → PHC 4.0 to next page

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

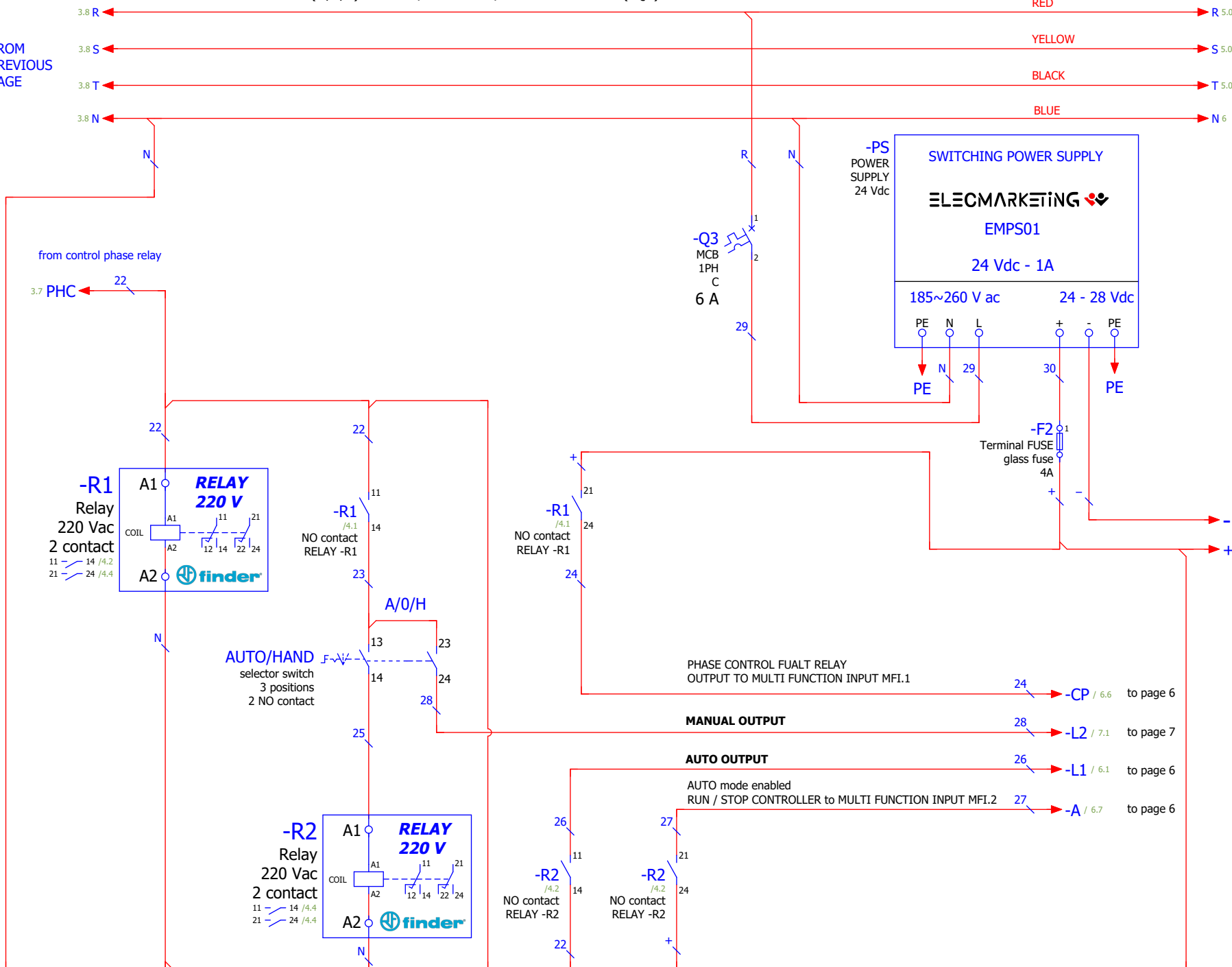
Hand & Auto diagram

FROM
PREVIOUS
PAGE

to
next
page



CREATOR : Elecmarketing Group	Drawing by : B.soltani
Page number : 4	Number of pages: 10
Page type : Schematic multi-line	Page Description : Hand & Auto diagram
Project description: Mode 7-8 Boosterpump 2 DRIVE - 3 Pump	Manufacturer : Elecmarketing company
CREATION DATE : 1403/10/1	Checked by : ENG.MOUSAVI
	Mounting panel : MCP panel
	Power supply 3Phase 400 Vac/50HZ



to page 6

to page 6

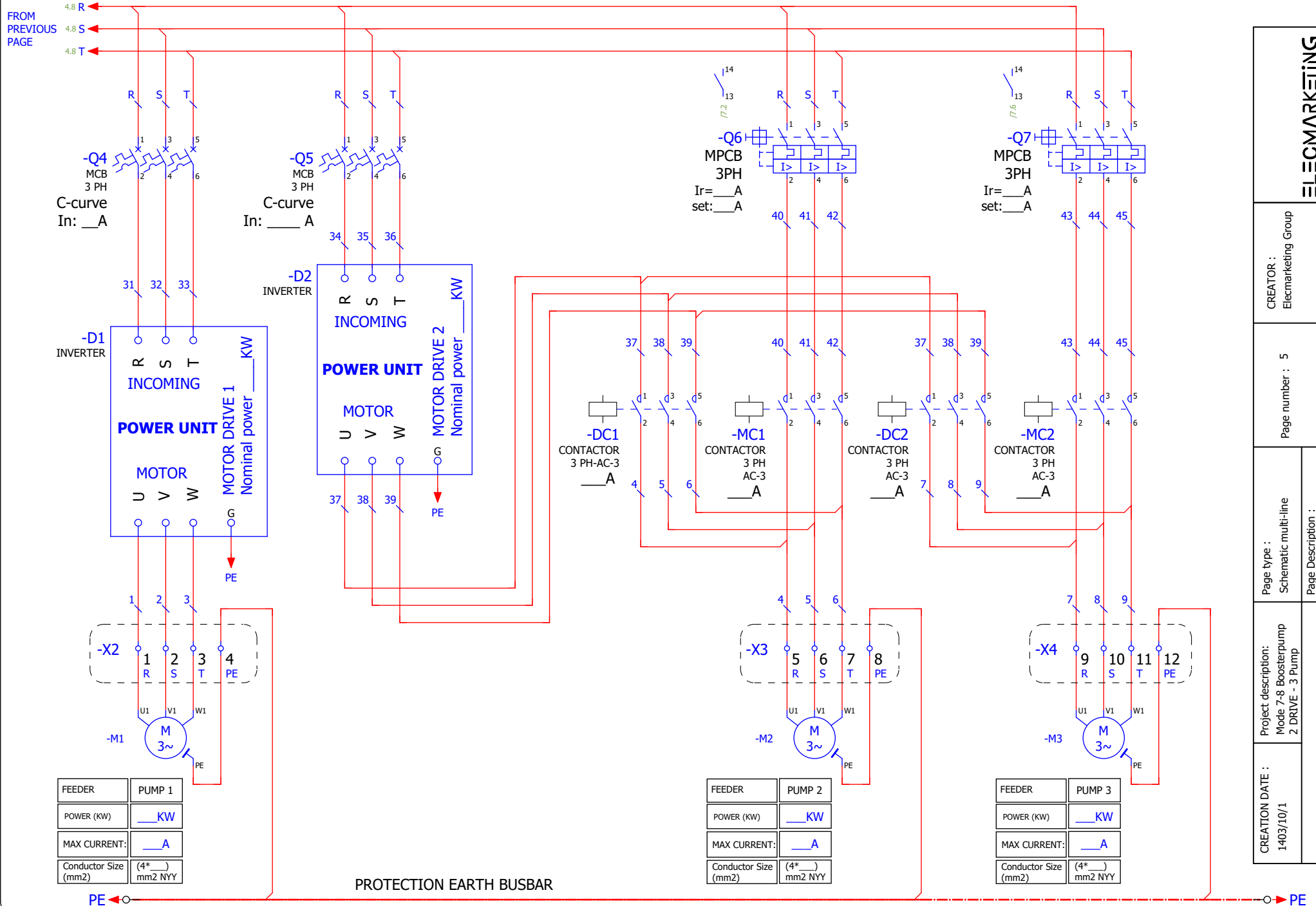
to page 7

to page 6

to page 6

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

Power circuit diagram



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CREATOR :
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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 7-8 Boosterpump
2 DRIVE - 3 Pump

Manufacturer : Elecmarketing company

Power supply
3Phase 400 Vac/50HZ

CREATION DATE :
1403/10/1

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

FROM
PAGE 4

AUTO 4.7 / -L1

26

to page 8
to Enable
Forward Drive 1

C1 D1

46 47

PE

-U1

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

Floater

Analog out 0-10 VDC

Sensor

RS485

-X5 = Floater Terminal strip

V1 CM1 8.1 8.1
V2 CM2 8.5 8.5

to page 8
to Incoming
Analog Drive.1

to page 8
to Incoming
Analog Drive.2

SENSOR
OUT OF PANEL

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

-X6 = Pressure Transmitter Terminal strip

FROM
PAGE 4

4.8 / +

6 / -

24 Vdc from Switching power supply -PS

48 → L3 / 7.1
14 → L4 / 7.1
49 → L5 / 7.1
16 → L6 / 7.1

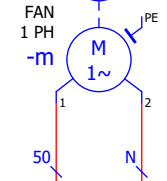
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page

to page 8
to Enable
Forward Drive 2

C2 D2

51 52

Air condition
FAN



Controller schematic diagram

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Page number : 6

Number of pages: 10

Page type :
Schematic multi-line

Page Description :
Controller schematic diagram

Mounting panel : MCP panel

Project description:
Mode 7-8 Boosterpump
2 DRIVE - 3 Pump

Manufacturer : Elecmarketing company

Power supply
3Phase 400 Vac/50HZ

CREATION DATE :
1403/10/1

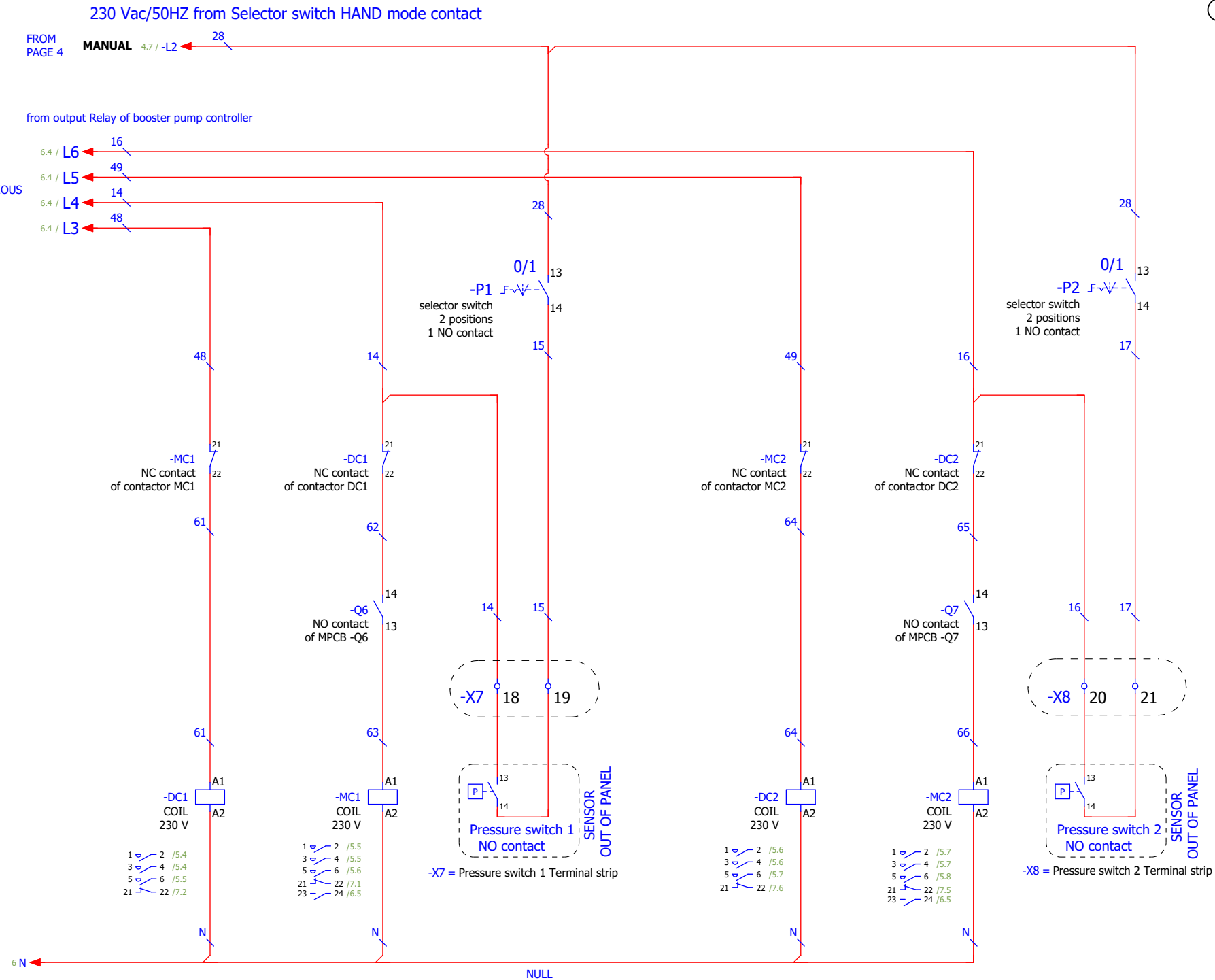
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next
page

4.8 N

NULL

N 7

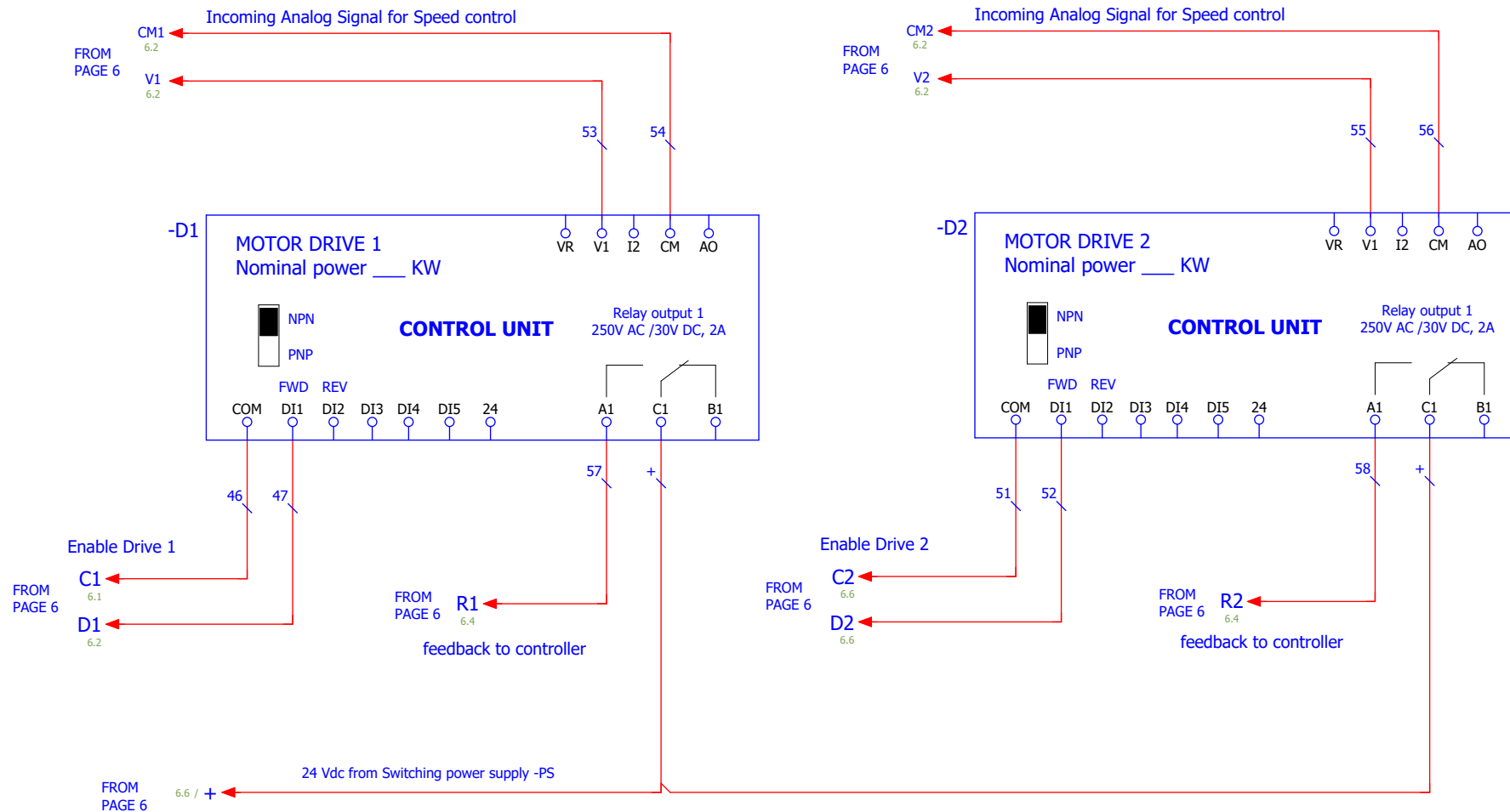


Control circuit diagram



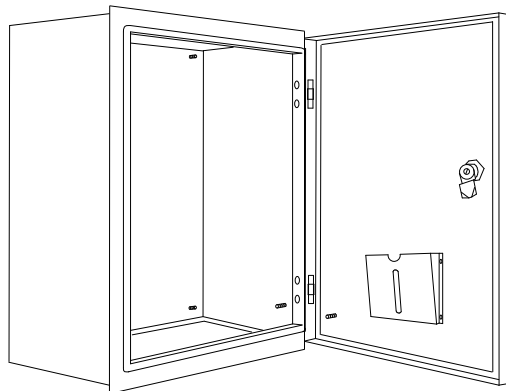
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Manufacturer : Elecmarketing company		Page Description : Control circuit diagram			
Checked by : ENG.MOUSAVI	Power supply 3Phase 400 Vac/50HZ		Mounting panel : MCP panel	Number of pages: 10	Drawing by : B.soltani

Drive circuit diagram

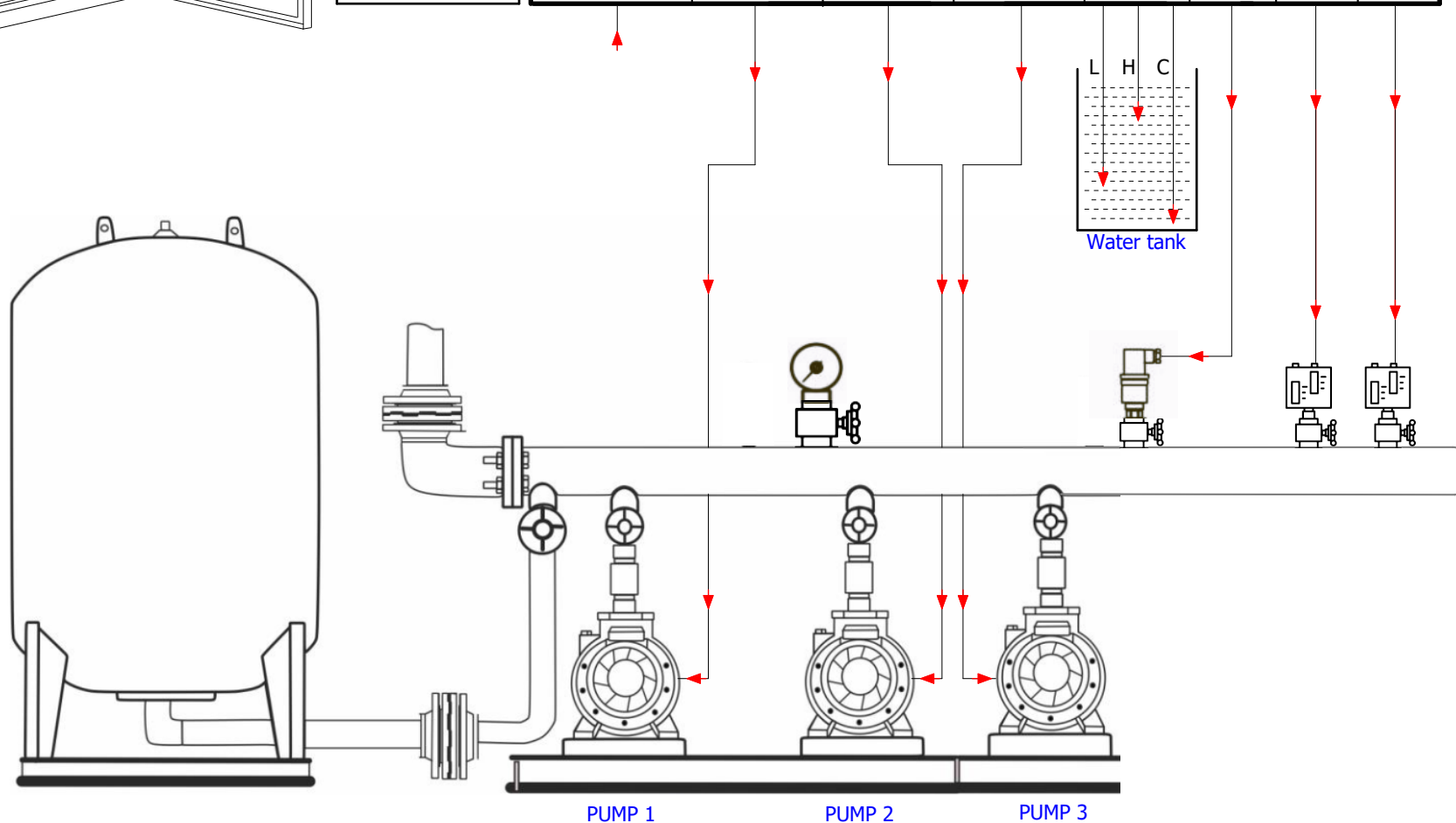


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Manufacturer : Elecmarketing company		Page Description : Drive circuit diagram		
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Control Panel



CONSUMER	Incoming	pump 1	pump 2	pump 3	Floater	Pressure Transmitter	Pressure Switch 1	Pressure Switch 2
TAG	-X1	-X2	-X3	-X4	-X5	-X6	-X7	-X8
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



Booster pump overview

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Drawing by :
B.soltani

Page number : 9

Number of pages: 10

Page type :
Schematic multi-line

Page Description :
Booster pump overview

Mounting panel : MCP panel

Project description:
Mode 7-8 Boosterpump
2 DRIVE - 3 Pump

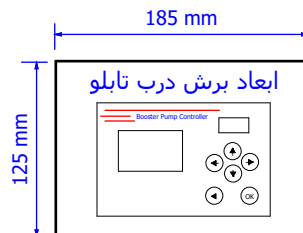
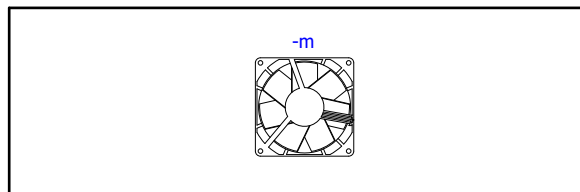
Manufacturer : Elecmarketing company

Power supply
3Phase 400 Vac/50HZ

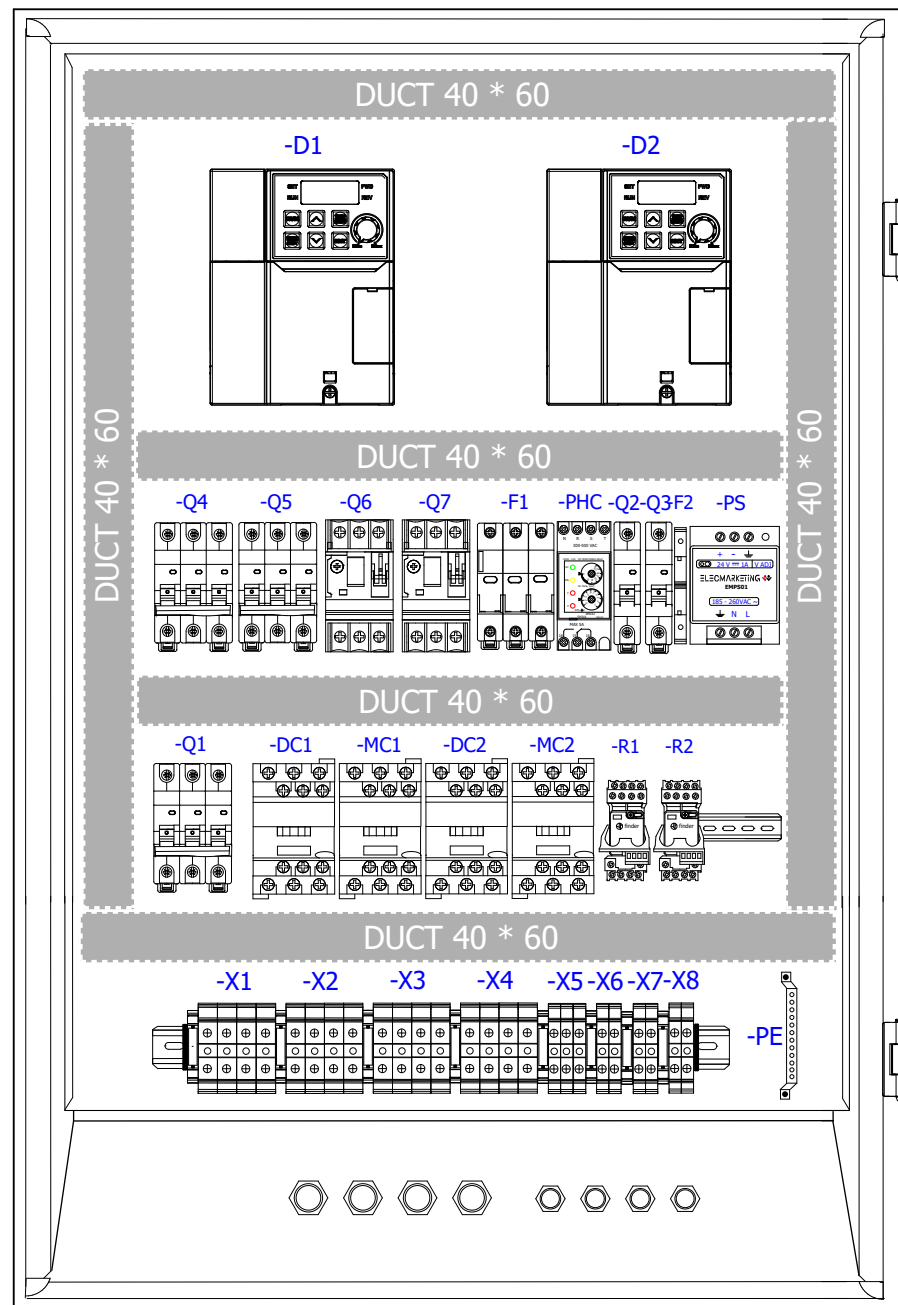
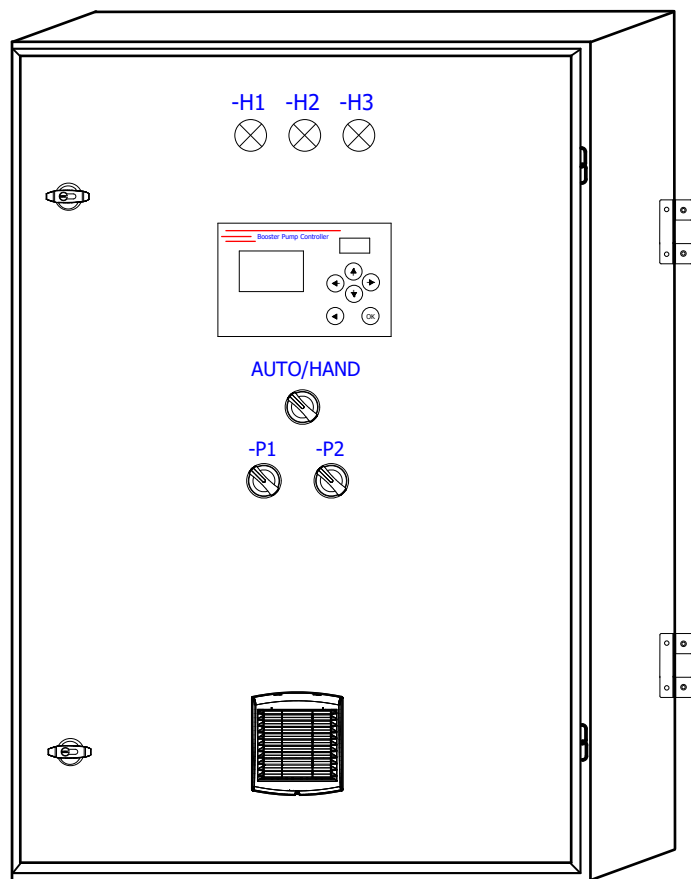
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TOP VIEW



EXTERNAL VIEW



Panel layout

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Manufacturer : Elecmarketing company		Power supply 3Phase 400 Vac/50HZ		Page Description : Panel layout		Number of pages: 10		Drawing by : B.soltani			
				Mounting panel : MCP panel							
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