

ELECMARKETING

Creator: Elecmarketing company

Project name: [Booster pump - 4 Pump](#)

Panel name: [Booster pump panel](#)

Working mode: [Mode 5 & 6](#)

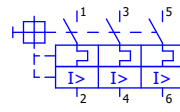
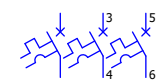
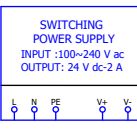
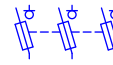
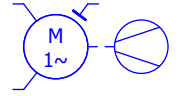
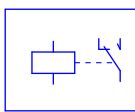
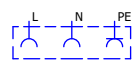
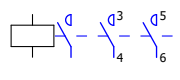
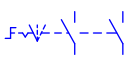
Description	Page	Description	Page
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Hand & Auto diagram	4	Panel layout	9
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[Scan: Telegram channel](#)

ELECMARKETING 	
CREATOR : Elecmarketing Group	Drawing by : B.soltani
Page number : 1	Number of pages: 9
Page type : Graphic	Page Description : Table of contents
Project description: Mode 5 & 6 Boosterpump 4 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 کاریر	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 بویین 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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CREATOR : Elecmarketing Group	Drawing by : B.soltani
Page number : 2	Number of pages: 9
Page type : Graphic	Page Description : Symbol table
Project description: Mode 5 & 6 Boosterpump 4 Pump	Mounting panel : MCP panel
Manufacturer : Elecmarketing company	Power supply 3Phase 400 Vac/50HZ
CREATION DATE : 1403/10/1	Checked by : ENG.MOUSAVI

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

JUMPER

RED → R^{4,1}

YELLOW → S^{4,1}

BLACK → T^{4,1}

BLUE → N

-Q1
MCB
3 PH
C-curve
In: ____ A

-MS
1NC contact
micro switch

PANEL LIGHTING
-L1
white

PHASE INDICATOR

-H1
RED
230 V
SIGNAL R

-H2
YELLOW
230 V
SIGNAL S

-H3
BLUE
230 V
SIGNAL T

-PHC
300-500 VAC
PHASE-CONTROL

CODE : 1315 HWP MONITORING RELAY

AC (Green)
REL (Yellow)
F (On Delay (SEC))
P (SEN ΔU)

MAX 5A

-H4
RED LED
230 V
SIGNAL FAULT

PE ← PROTECTION EARTH BUSBAR → PE

EARTH

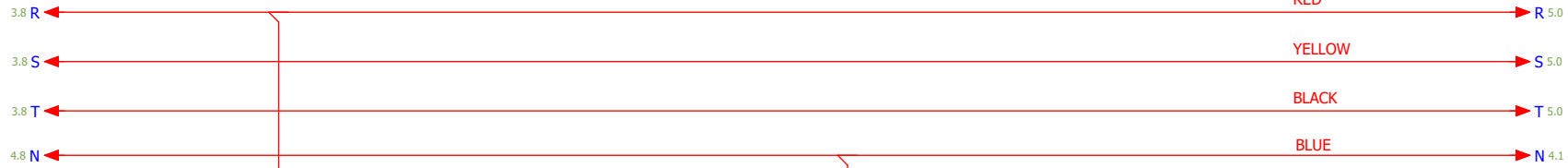
INCOMING			
FROM MCC	TO Booster pump panel		
panel name: Booster pump panel	CABLE INPUT		
	Wire number	SIZE	TYPE
	5	____ mm ²	NYY

-X1 = INCOMING (R-S-T-N-PE)

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

Hand & Auto diagram

FROM
PREVIOUS
PAGE



-Q2
MCB
1PH
C
6 A

-PS
POWER
SUPPLY
24 Vdc

SWITCHING POWER SUPPLY

ELECMARKETING

EMPS01

24 Vdc - 1A

185~260 V ac

24 - 28 Vdc

PE

N

L

+

-

PE

PE

N

L

+

-

PE

-F2
Terminal FUSE
glass fuse
4A

+

-

- / 6

+ / 6.1

to page 6

A/O/H
AUTO/HAND
selector switch
3 positions
2 NO contact

MANUAL OUTPUT

AUTO OUTPUT

-L2 / 7.1

to page 7

-L1 / 6.1

to page 6

ELECMARKETING

CREATOR :
Elecmarketing Group

Drawing by :
B.soltani

Page number : 4

Number of pages: 9

Page type :
Schematic multi-line

Page Description :
Hand & Auto diagram

Mounting panel : MCP panel

Project description:
Mode 5 & 6 Boosterpump
4 Pump

Manufacturer : Elecmarketing company

Power supply
3Phase 400 Vac/50HZ

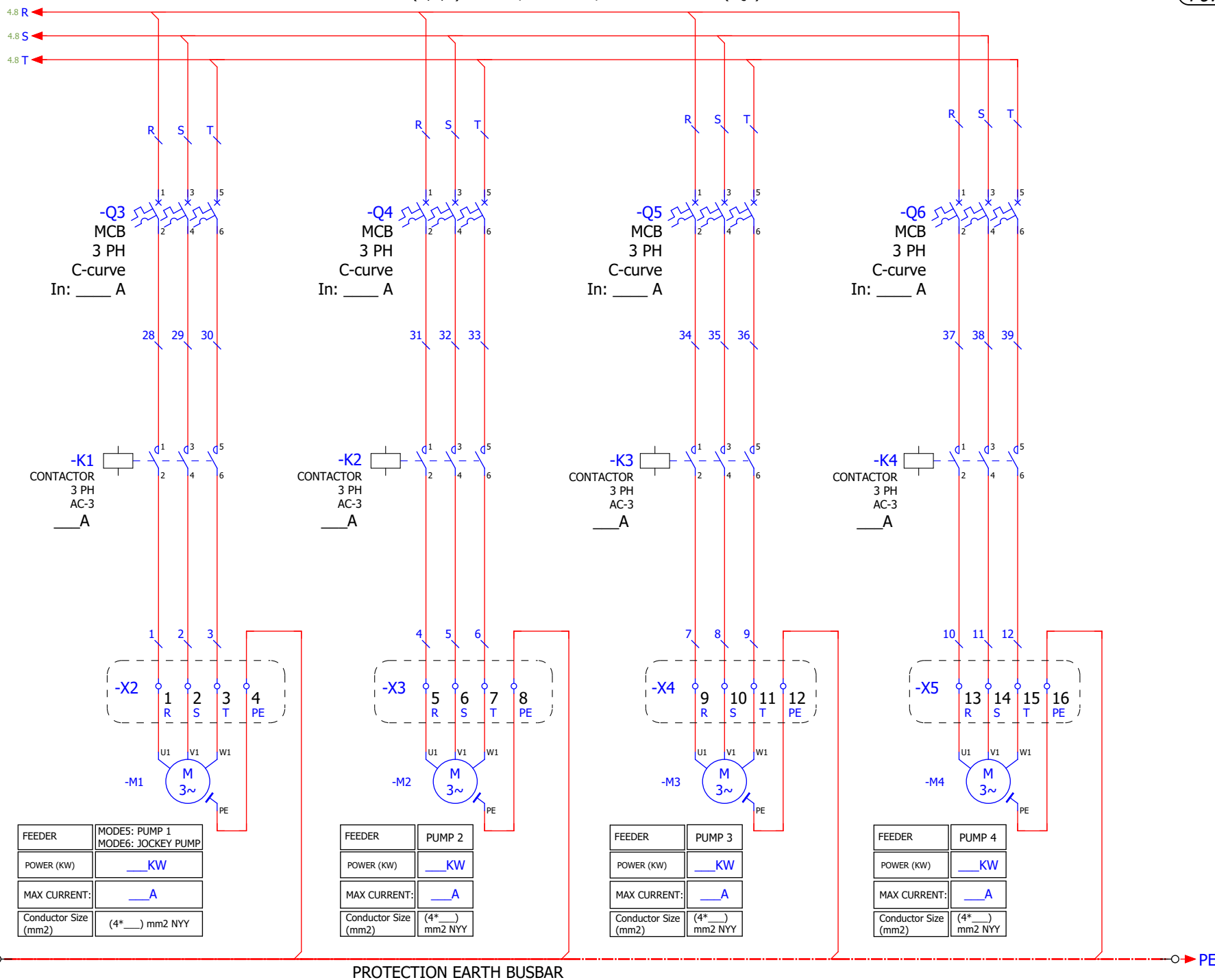
CREATION DATE :
1403/10/1

Checked by :
ENG.MOUSAVI

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

Power circuit diagram

FROM
PREVIOUS
PAGE



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CREATOR :
Elecmarketing Group

Drawing by :
B.soltani

Page number : 5

Number of pages: 9

Page type :
Schematic multi-line

Page Description :
Power circuit diagram

Mounting panel : MCP panel

Project description:
Mode 5 & 6 Boosterpump
4 Pump

Manufacturer : Elecmarketing company

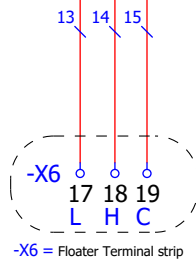
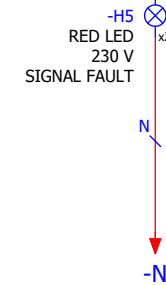
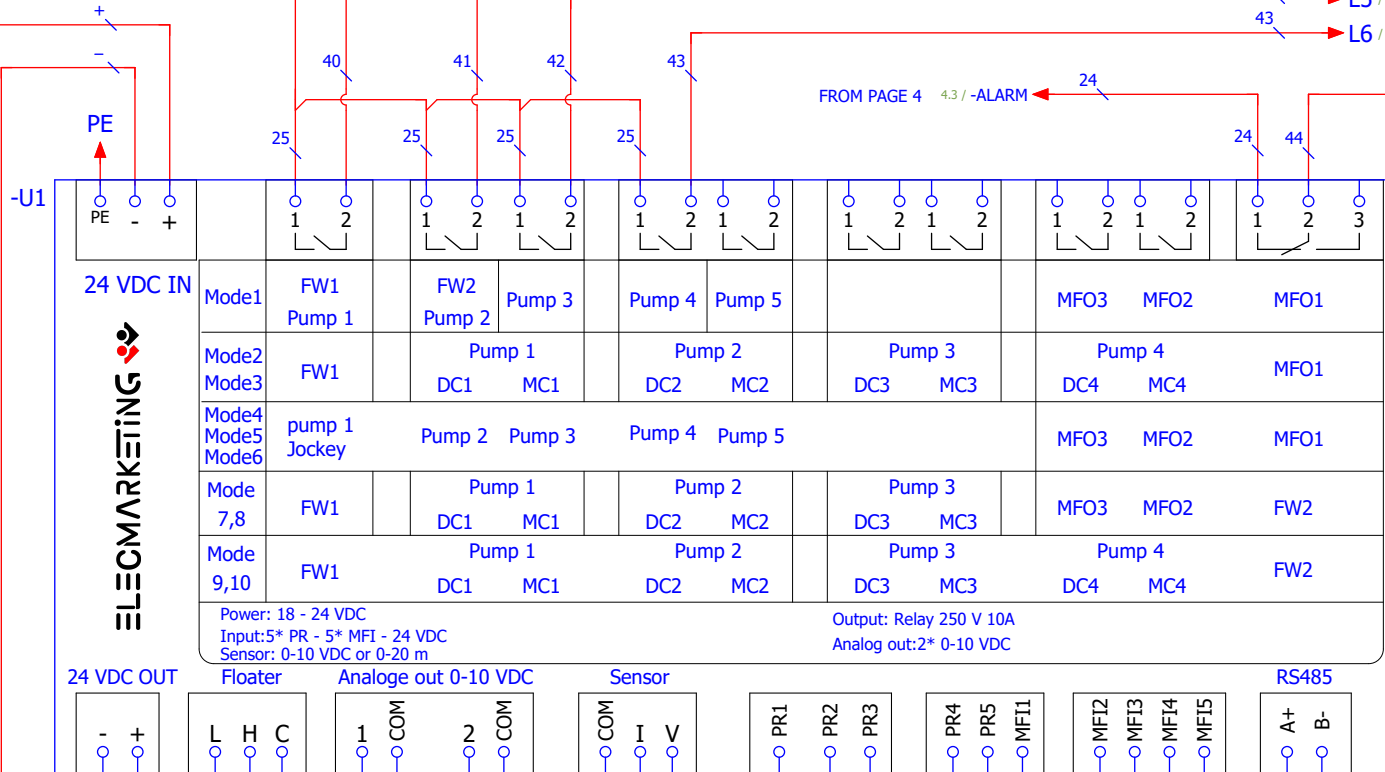
CREATION DATE :
1403/10/1

Power supply
3Phase 400 Vac/50HZ

Checked by :
ENG.MOUSAVI

230 Vac/50HZ from Selector switch HAND/AUTO (AUTO MODE)

Controller schematic diagram



-X6 = Floater Terminal strip

-K1

NO contact

contactor -K1

-K2

NO contact

contactor -K2

-K3

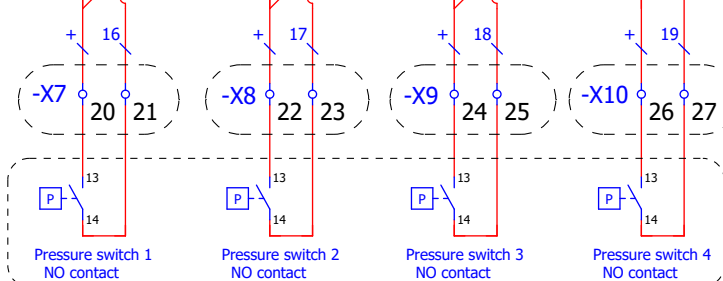
NO contact

contactor -K3

-K4

NO contact

contactor -K4



-X7 = Pressure switch 1 Terminal strip

-X8 = Pressure switch 2 Terminal strip

-X9 = Pressure switch 3 Terminal strip

-X10 = Pressure switch 4 Terminal strip

FROM PAGE 4

4.7 / +

4.7 / -

24 Vdc from Switching power supply -PS

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Page number : 6	Number of pages: 9
Page type : Schematic multi-line	Page Description : Controller schematic diagram
Project description: Mode 5 & 6 Boosterpump 4 Pump	Mounting panel : MCP panel
CREATION DATE : 1403/10/1	Power supply 3Phase 400 Vac/50HZ
Manufacturer : Elecmarketing company	Checked by : ENG.MOUSAVI

230 Vac/50HZ from Selector switch HAND/AUTO (HAND MODE)

FROM
PAGE 4

MANUAL 4.7 / -L2

from output Relay of booster pump controller

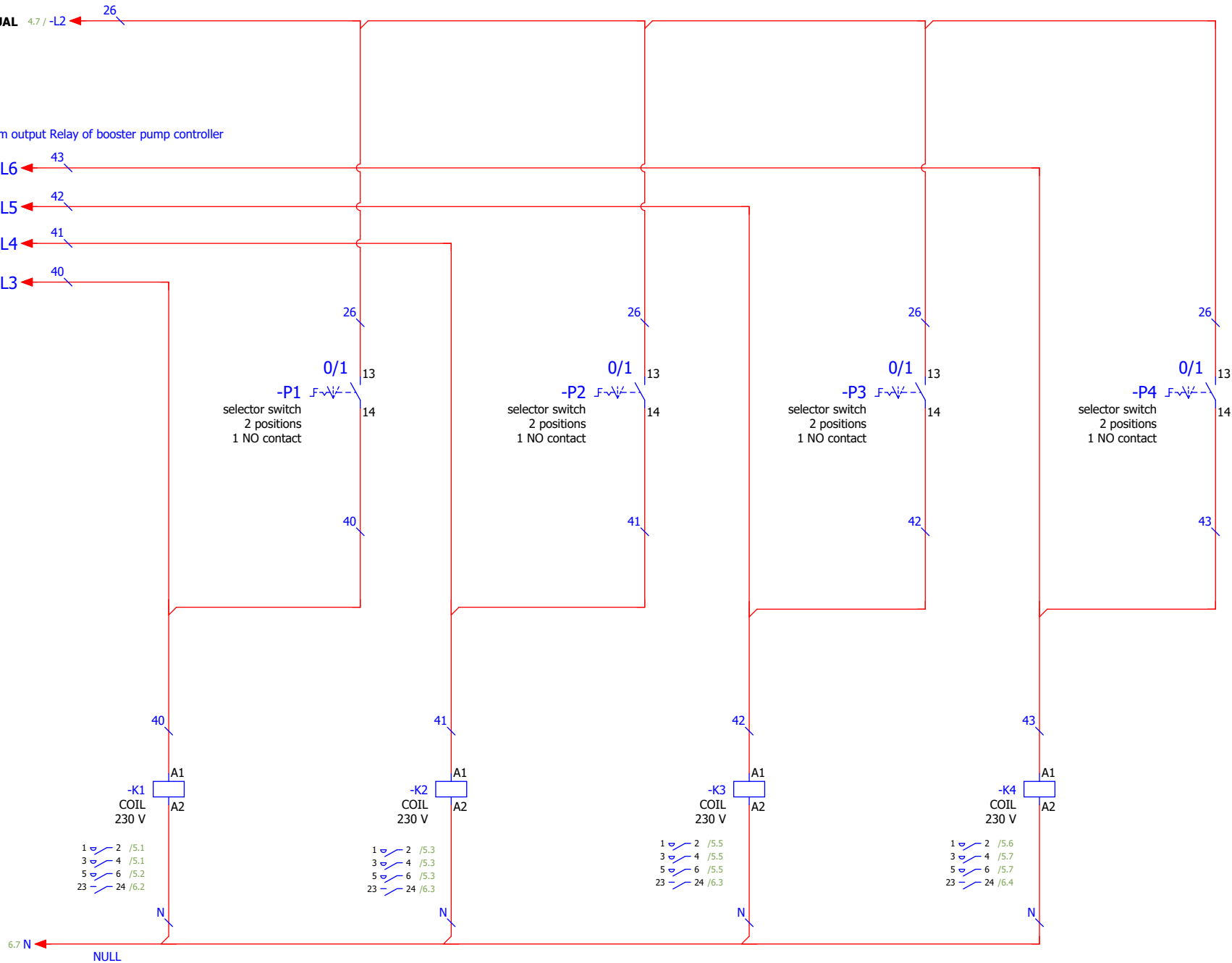
6.6 / L6 43

6.6 / L5 42

6.6 / L4 41

6.6 / L3 40

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ELECMARKETING

CREATOR :
Elecmarketing Group

Drawing by :
B.soltani

Page number : 7

Number of pages: 9

Page type :
Schematic multi-line

Page Description :
Control circuit diagram

Mounting panel : MCP panel

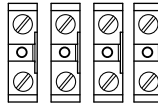
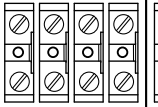
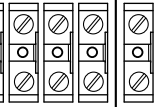
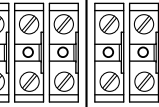
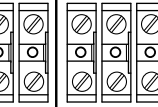
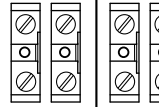
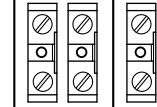
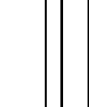
Project description:
Mode 5 & 6 Boosterpump
4 Pump

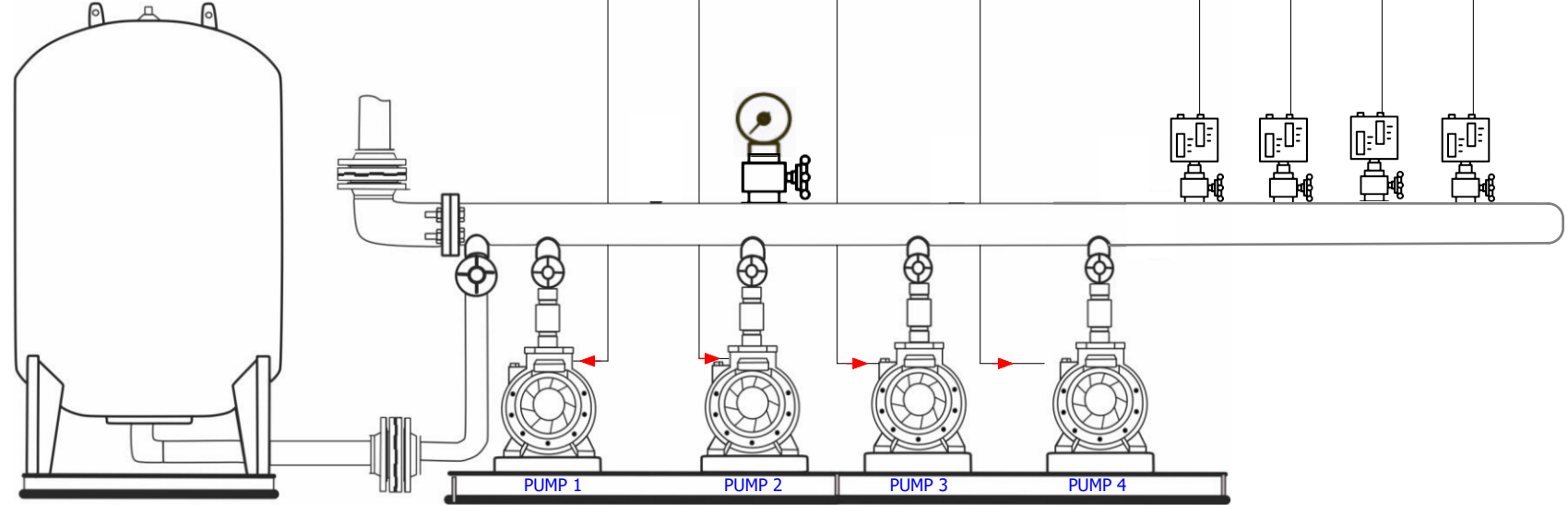
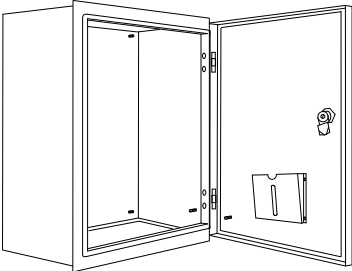
Manufacturer : Elecmarketing company

Power supply
3Phase 400 Vac/50HZ

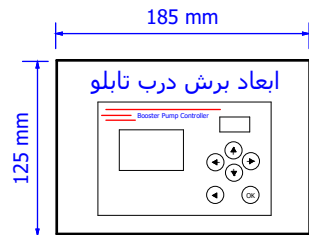
CREATION DATE :
1403/10/1

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ENG.MOUSAVI

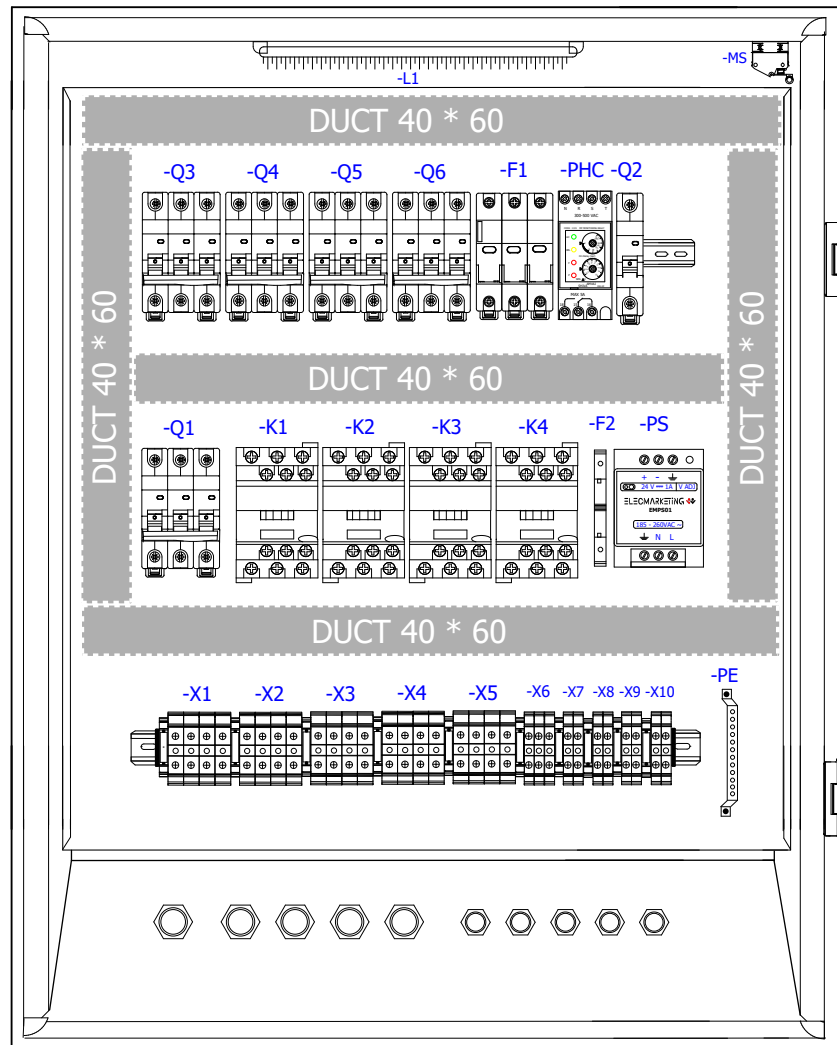
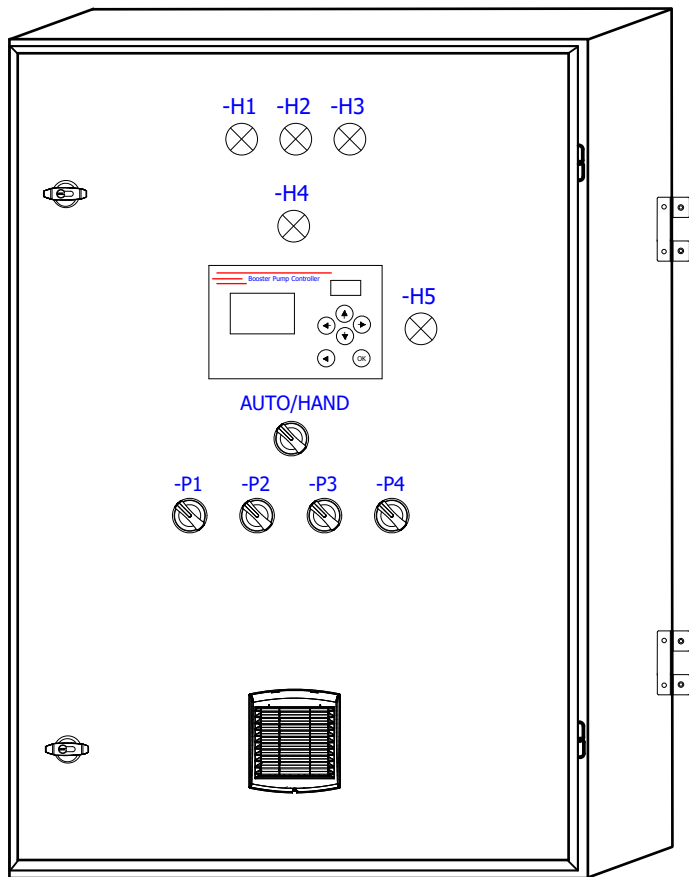
CONSUMER	Incoming	pump 1	pump 2	pump 3	pump 4	Floater	Pressure Switch 1	Pressure Switch 2	Pressure Switch 3	Pressure Switch 4
TAG	-X1	-X2	-X3	-X4	-X5	-X6	-X7	-X8	-X9	-X10
TERMINAL STRIP										
number of terminal	R S T N	1 2 3 4	5 6 7 8	9 10 11 12	13 14 15 16	17 18 19	20 21	22 23	24 25	26 27



Panel layout



EXTERNAL VIEW



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Page number : 9		Number of pages: 9	
Page type : Panel layout	Page Description : Panel layout		Mounting panel : MCP panel
	Project description: Mode 5 & 6 Boosterpump 4 Pump		Power supply 3Phase 400 Vac/50HZ
CREATION DATE : 1403/10/1	Manufacturer : Elecmarketing company		Checked by : ENG.MOUSAVI