

ELECMARKETING

Creator: Elecmarketing company

Project name: [Mixed mode Booster pump - 2 DRIVE - 4 Pump](#)

Panel name: [Booster pump panel](#)

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

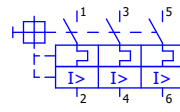
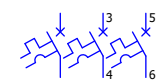
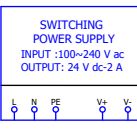
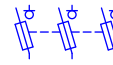
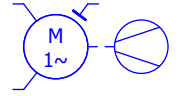
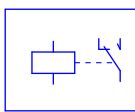
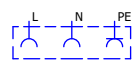
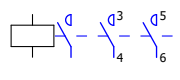
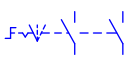
Description	Page	Description	Page
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INCOMING	3	Drive circuit diagram	8
Hand & Auto diagram	4	Booster pump overview	9
Power circuit diagram	5	Panel layout	10

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ELECMARKETING 			
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 7-8 Boosterpump 2 DRIVE - 4 Pump		Power supply 3Phase 400 Vac/50HZ
CREATION DATE : 1403/10/1	Manufacturer : Elecmarketing company		Checked by : ENG.MOUSAVI



[Scan: Telegram channel](#)

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: 10

Page type :
Graphic

Page Description :
Symbol table

Mounting panel : MCP panel

Project description:
Mode 7-8 Boosterpump
2 DRIVE - 4 Pump

Manufacturer : Elecmarketing company

Power supply
3Phase 400 Vac/50HZ

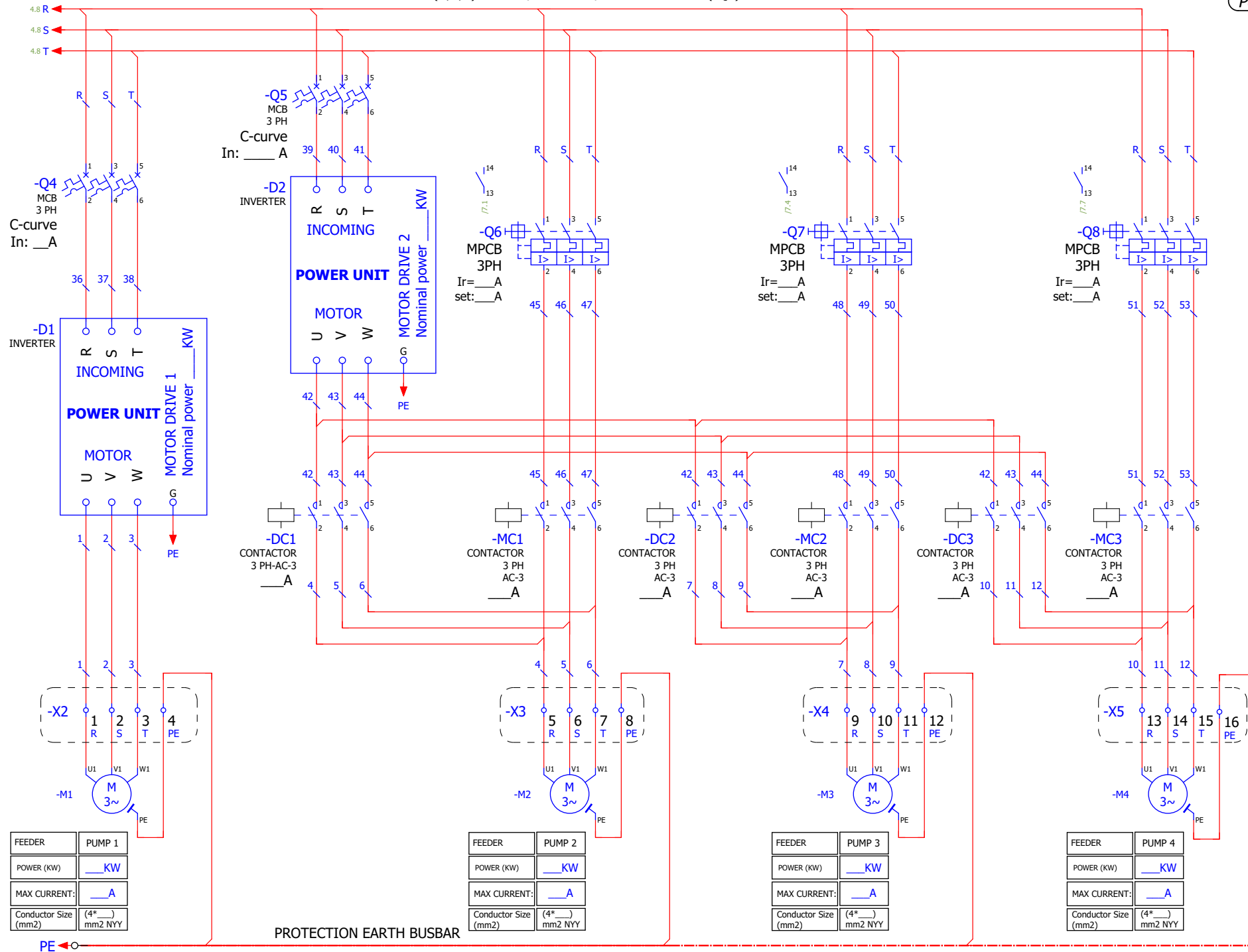
CREATION DATE :
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FROM PREVIOUS PAGE

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

Power circuit diagram



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CREATOR :
Elecmarketing GroupDrawing by :
B.soltani

Page number : 5

Number of pages: 10

Page type :	Page Description :	Project description:	Manufacturer :
Schematic multi-line	Power circuit diagram	Mode 7-8 Boosterpump 2 DRIVE - 4 Pump	Elecomarketing company
Mounting panel : MCP panel		Power supply 3Phase 400 Vac/50HZ	Checked by : ENG.MOUSAVI

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

Controller schematic diagram

FROM
PAGE 4

AUTO 4.7 / -L1

31

+

-

PE

-U1

24 VDC IN

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

Analoge out 0-10 VDC

Sensor

RS485

-	+	L	H	C	1	COM	2	COM	COM	I	V	PR1	PR2	PR3	PR4	PR5	MFT1	MFT2	MFT3	MFT4	MFT5	A+	B-
---	---	---	---	---	---	-----	---	-----	-----	---	---	-----	-----	-----	-----	-----	------	------	------	------	------	----	----

-X6 = Floater Terminal strip

V1 CM1 8.1 8.1
V2 CM2 8.5 8.5

-X7 = Pressure Transmitter Terminal strip

SENSOR OUT OF PANEL

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

-X7 = Pressure Transmitter Terminal strip

R1 8.2
R2 8.6

-MC1 /5.3
-MC2 /5.5
-MC3 /5.7

NO contact
contactor -MC1
NO contact
contactor -MC2
NO contact
contactor -MC3

-CP 4.7
-A 4.7

from page 4
from PHC
Fault control phase

from page 4
Auto mode enabled
Run/Stop controller

FROM
PAGE 4

4.8 / +

4.8 / -

24 Vdc from Switching power supply -PS

to
next
page

4.8 N

NULL

ELECMARKETING		CREATOR : Elecmarketing Group		Drawing by : B.soltani	
Page number : 6		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 - 4 Pump		Manufacturer : Elecmarketing company		Power supply 3Phase 400 Vac/50HZ	
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Air condition

FAN

FAN 1 PH

-m

1

2

59

N

1

2

59

N

1

2

59

N

1

2

59

N

1

2

59

N

1

2

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N

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N

1

2

59

N

1

2

59

N

1

2

59

N

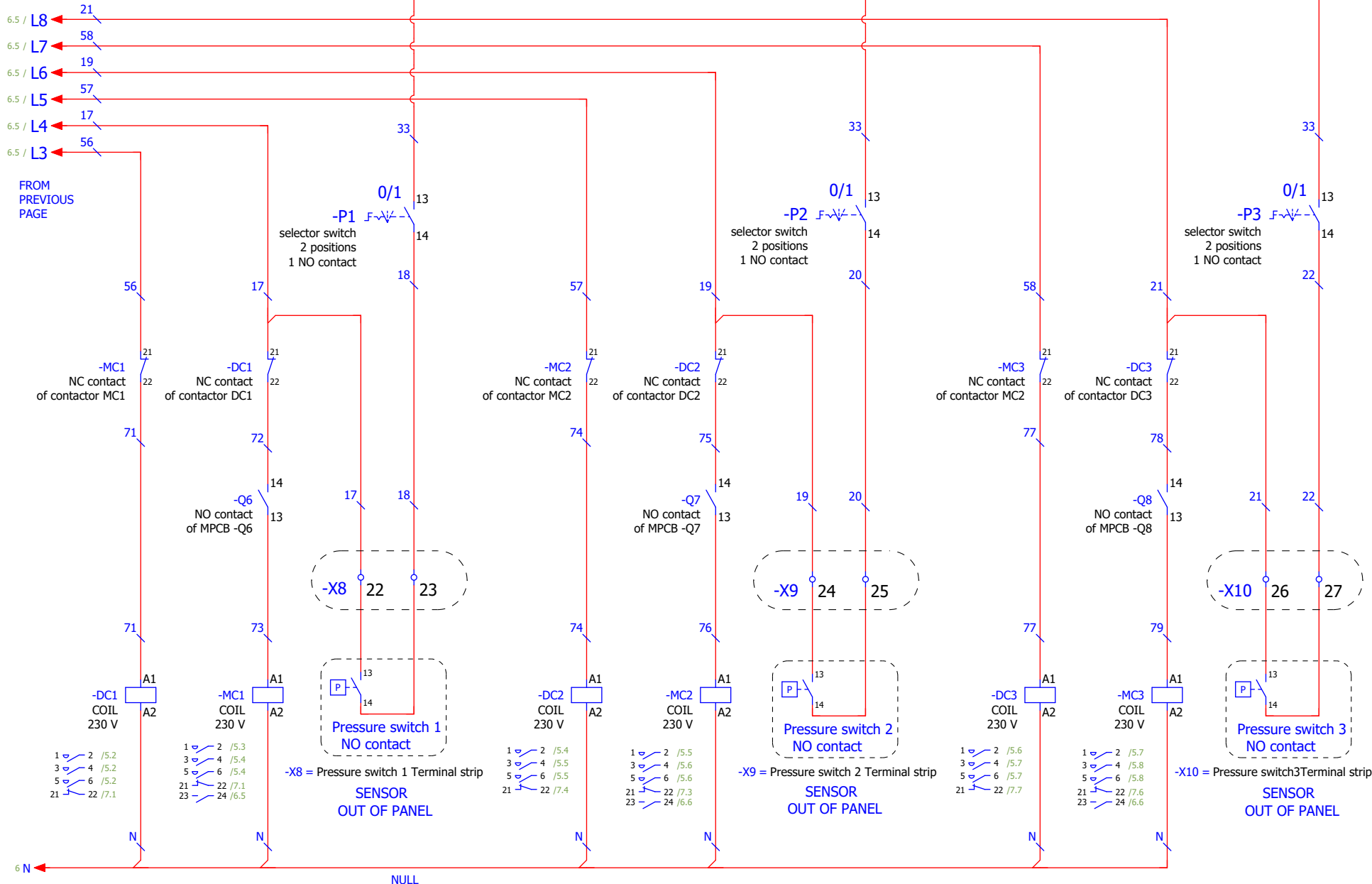
230 Vac/50HZ from Selector switch HAND mode contact

Control circuit diagram

FROM
PAGE 4

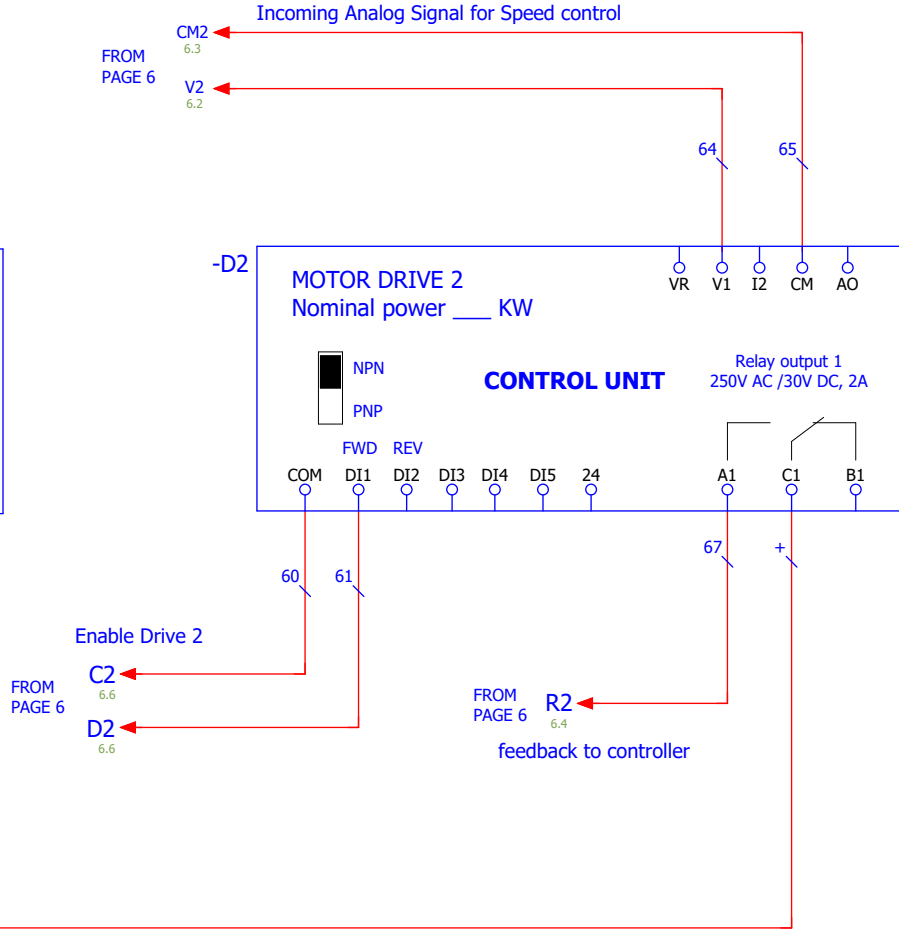
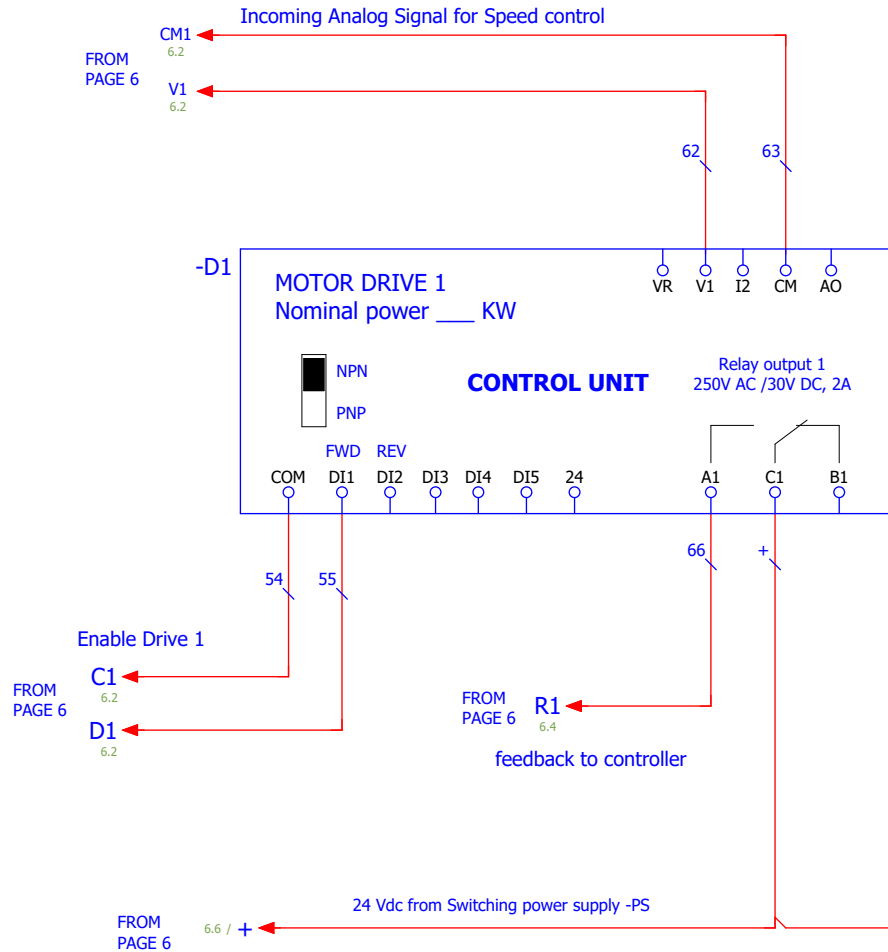
MANUAL 4.7 / -L2

from output Relay of booster pump controller

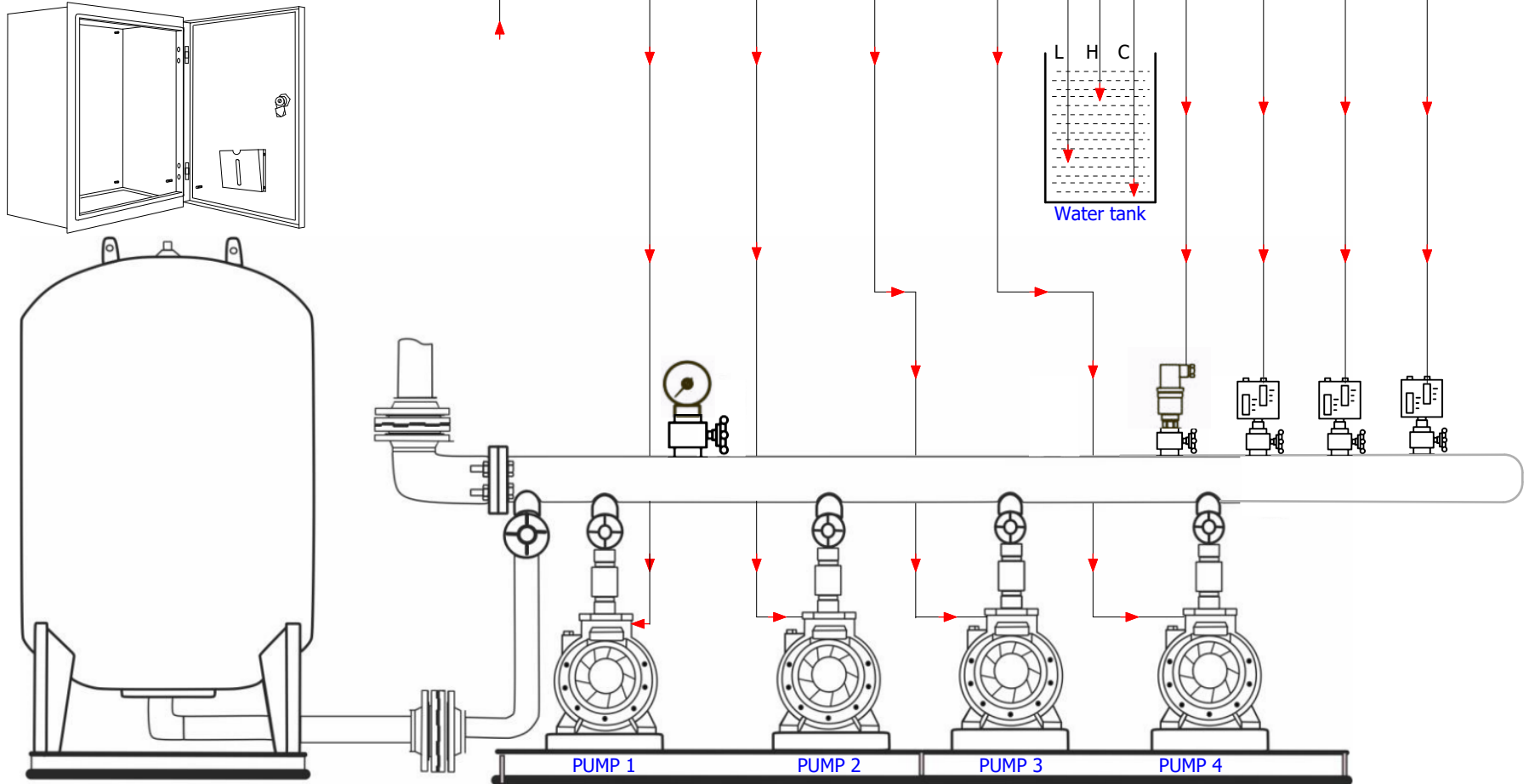


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Page number : 7	Number of pages: 10
Page type : Schematic multi-line	Page Description : Control circuit diagram
Project description: Mode 7-8 Boosterpump 2 DRIVE - 4 Pump	Mounting panel : MCP panel
Manufacturer : Elecmarketing company	Power supply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



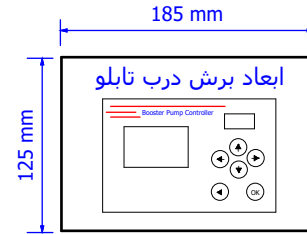
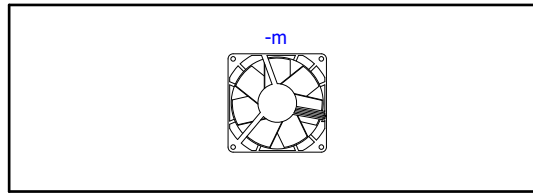
CREATOR : Elecmarketing Group	Drawing by : B.soltani
Page number : 8	Number of pages: 10
Page type : Schematic multi-line	Page Description : Drive circuit diagram
Project description: Mode 7-8 Boosterpump 2 DRIVE - 4 Pump	Mounting panel : MCP panel
Manufacturer : Elecmarketing company	Power supply 3Phase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



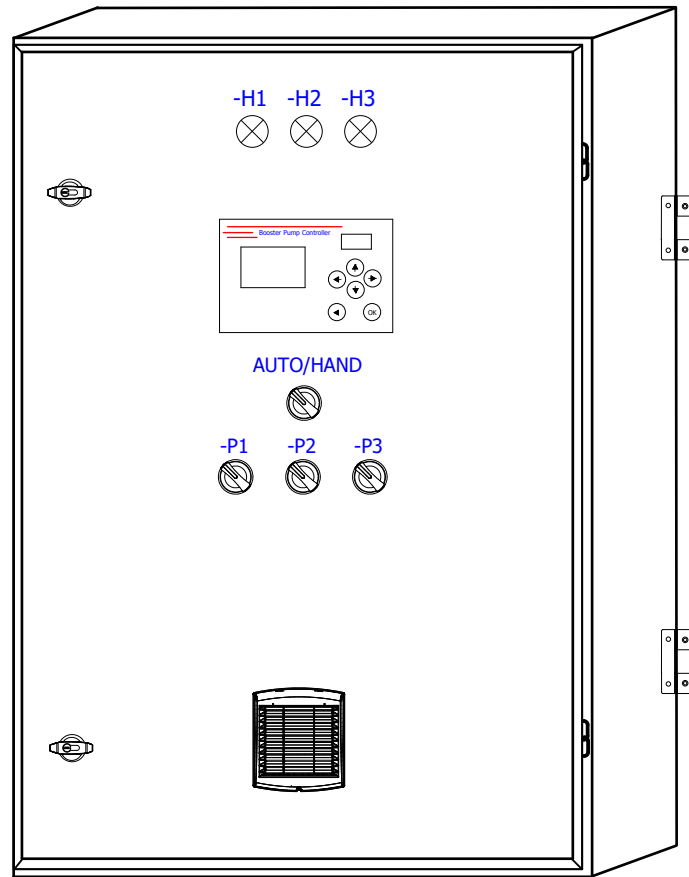
CONSUMER	Incoming	pump 1	pump 2	pump 3	pump 4	Floater	Pressure Transmitter	Pressure Switch 1	Pressure Switch 2	Pressure Switch 3
TAG	-X1	-X2	-X3	-X4	-X5	-X6	-X7	-X8	-X9	-X10
TERMINAL STRIP										
number of terminal	R S T N	1 2 3 4	5 6 7 8	9 10 11 12	13 14 15 16	17 18 19	20 21	22 23	24 25	26 27

Booster pump overview

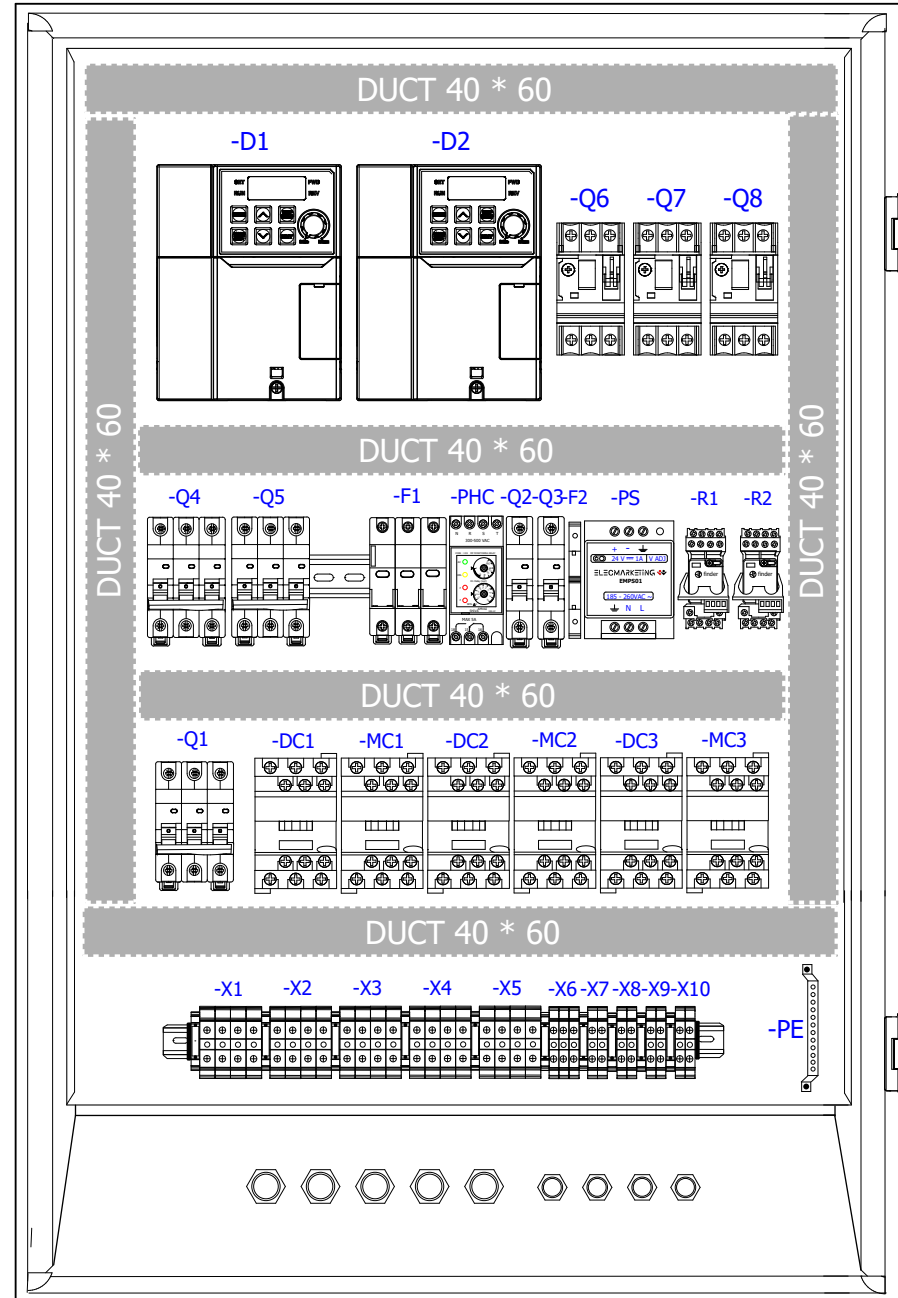
TOP VIEW



EXTERNAL VIEW



Panel layout



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CREATOR :
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Page number : 10

Number of pages: 10

Page type :
Panel layout

Page Description :
Panel layout

Mounting panel : MCP panel

Project description:
Mode 7-8 Boosterpump
2 DRIVE - 4 Pump

Manufacturer : Elecmarketing company

Power supply
3Phase 400 Vac/50HZ

CREATION DATE :
1403/10/1

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