

ELECMARKETING

Creator: Elecmarketing company

Project name: [Booster pump - 3 Pump](#)

Panel name: [Booster pump panel](#)

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

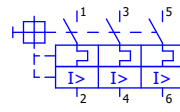
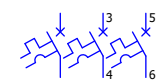
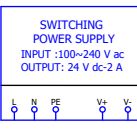
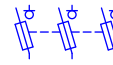
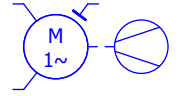
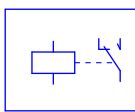
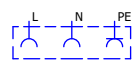
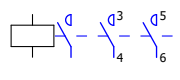
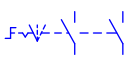
Description	Page	Description	Page
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Page number : 1	Number of pages: 9
Page type : Graphic	Page Description : Table of contents
Project description: Mode 5 & 6 Boosterpump 3 Pump	Mounting panel : MCP panel
Manufacturer : Elecmarketing company	Power supply 3Phase 400 Vac/50HZ
CREATION DATE : 1403/10/1	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 :
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Drawing by :
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Page number : 2

Number of pages: 9

Page type :
Graphic

Page Description :
Symbol table

Mounting panel : MCP panel

Project description:
Mode 5 & 6 Boosterpump
3 Pump

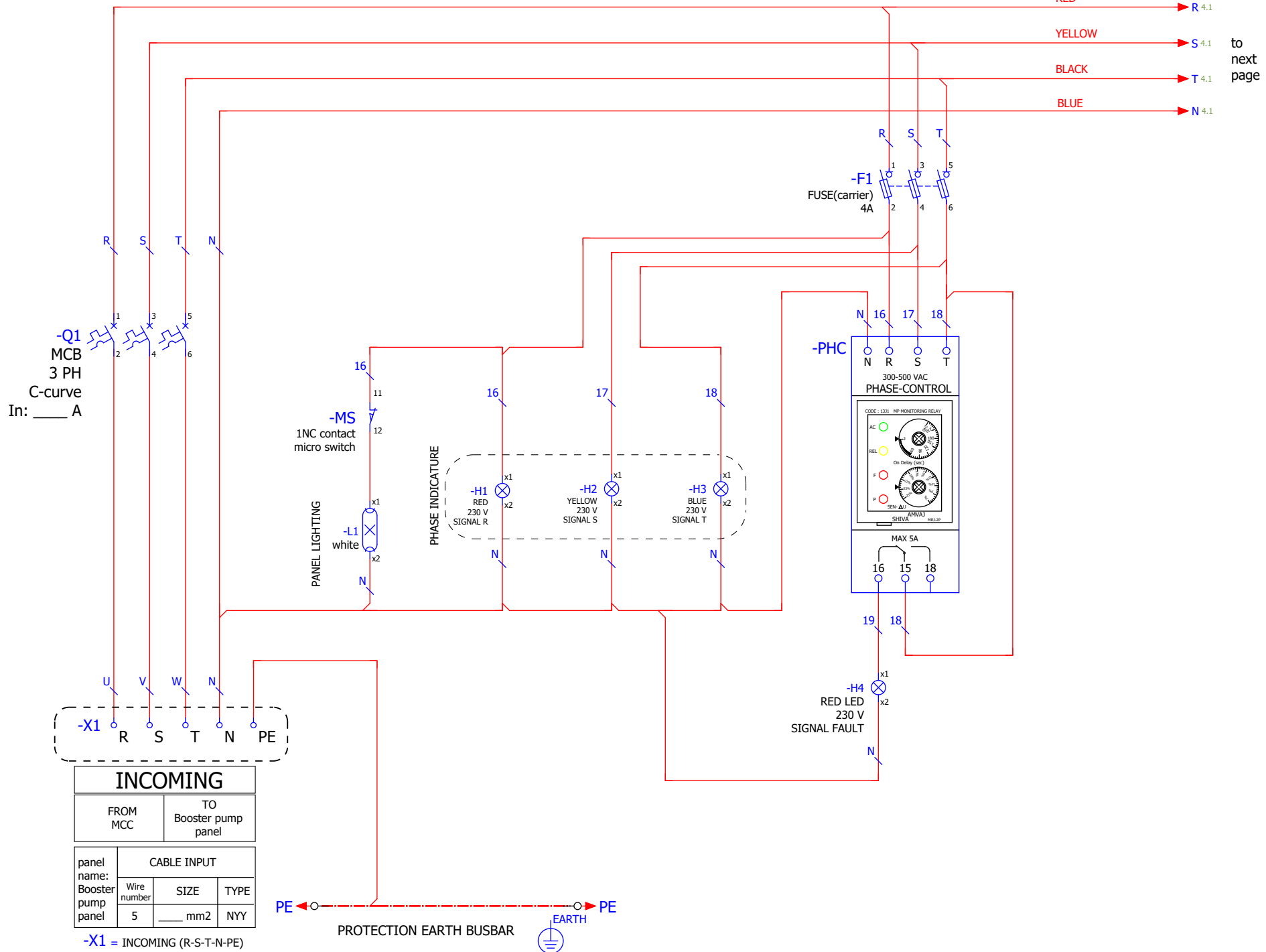
Manufacturer : Elecmarketing company

Power supply
3Phase 400 Vac/50HZ

CREATION DATE :
1403/10/1

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ENG.MOUSAVI

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



INCOMING

ELECMARKETING

CREATOR :
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Drawing by :
B.soltani

Page number : 3

Number of pages: 9

Page type :
Schematic multi-line

Page Description :
INCOMING

Mounting panel : MCP panel

Project description:
Mode 5 & 6 Boosterpump
3 Pump

Manufacturer : Elecmarketing company

Power supply
3Phase 400 Vac/50HZ

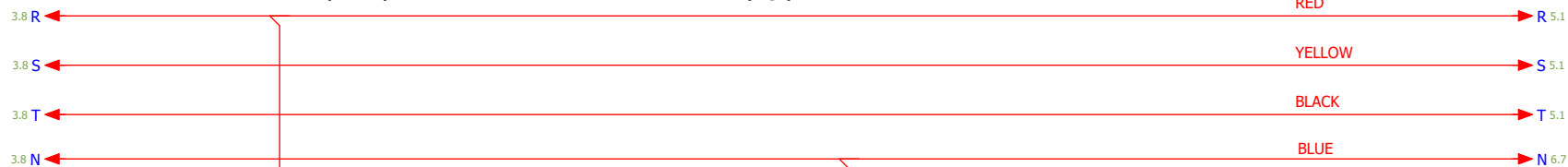
CREATION DATE :
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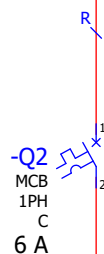
Normal Distribution 3PH(R,S,T)+N 220/380 V-AC / 50HZ from MCB (-Q1) JUMPER

Hand & Auto diagram

FROM
PREVIOUS
PAGE



to
next
page



20 → -ALARM 6.5 to page 6
ALARM SIGNAL

-PS
POWER
SUPPLY
24 Vdc

SWITCHING POWER SUPPLY

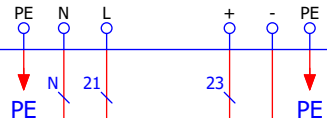
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EMPS01

24 Vdc - 1A

185~260 V ac

24 - 28 Vdc



-F2
Terminal FUSE
glass fuse
4A

to page 6

AUTO/HAND
selector switch
3 positions
2 NO contact

A/O/H

MANUAL OUTPUT

AUTO OUTPUT

22 → -L2 / 7.1 to page 7

21 → -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
Project description: Mode 5 & 6 Boosterpump 3 Pump	Mounting panel : MCP panel
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	Power supply 3Phase 400 Vac/50HZ
	Checked by : ENG.MOUSAVI

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

Power circuit diagram

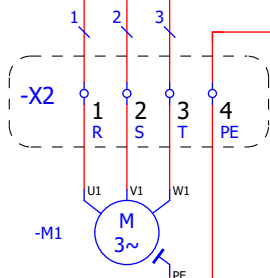
FROM
PREVIOUS
PAGE

4.8 R
4.8 S
4.8 T

R S T
1 3 5
2 4 6
-Q3
MCB
3 PH
C-curve
In: ____ A

24 25 26
1 2 3
2 4 6
-K1
CONTACTOR
3 PH
AC-3
____ A

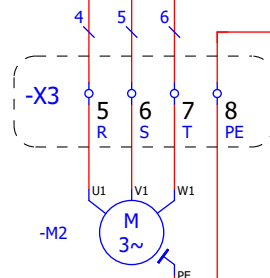
FEEDER	MODE5: PUMP 1 MODE6: JOCKEY PUMP
POWER (KW)	____KW
MAX CURRENT:	____A
Conductor Size (mm2)	(4*____) mm2 NYY



R S T
1 3 5
2 4 6
-Q4
MCB
3 PH
C-curve
In: ____ A

27 28 29
1 2 3
2 4 6
-K2
CONTACTOR
3 PH
AC-3
____ A

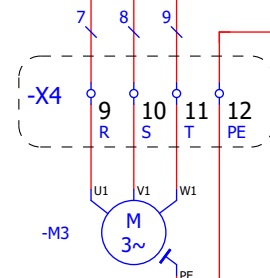
FEEDER	PUMP 2
POWER (KW)	____KW
MAX CURRENT:	____A
Conductor Size (mm2)	(4*____) mm2 NYY



R S T
1 3 5
2 4 6
-Q5
MCB
3 PH
C-curve
In: ____ A

30 31 32
1 2 3
2 4 6
-K3
CONTACTOR
3 PH
AC-3
____ A

FEEDER	PUMP 3
POWER (KW)	____KW
MAX CURRENT:	____A
Conductor Size (mm2)	(4*____) mm2 NYY



PE

PROTECTION EARTH BUSBAR

PE

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CREATOR :
Elecmarketing Group

Drawing by :
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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
3 Pump

CREATION DATE :
1403/10/1

Manufacturer : Elecmarketing company

Checked by :
ENG.MOUSAVI

Power supply
3Phase 400 Vac/50HZ

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

FROM
PAGE 4

AUTO 4.7 / -L1

PE

-U1

PE

24 VDC IN

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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

-X5
13 14 15
L H C
-X5 = Floater Terminal strip

-K1
/5.2
NO contact
contactor -K1

-K2
/5.4
NO contact
contactor -K2

-K3
/5.6
NO contact
contactor -K3

-X6
16 17
+
Pressure switch 1
NO contact

-X7
18 19
+
Pressure switch 2
NO contact

-X8
20 21
+
Pressure switch 3
NO contact

SENSOR's
OUT OF PANEL

FROM
PAGE 4

4.7 / +

4.7 / -

24 Vdc from Switching power supply -PS

-X6 = Pressure switch 1 Terminal strip
-X7 = Pressure switch 2 Terminal strip
-X8 = Pressure switch 3 Terminal strip

Controller schematic diagram

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CREATOR :
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Page number : 6

Number of pages: 9

Page type :
Schematic multi-line

Page Description :
Controller schematic diagram

Mounting panel : MCP panel

Project description:
Mode 5 & 6 Boosterpump
3 Pump

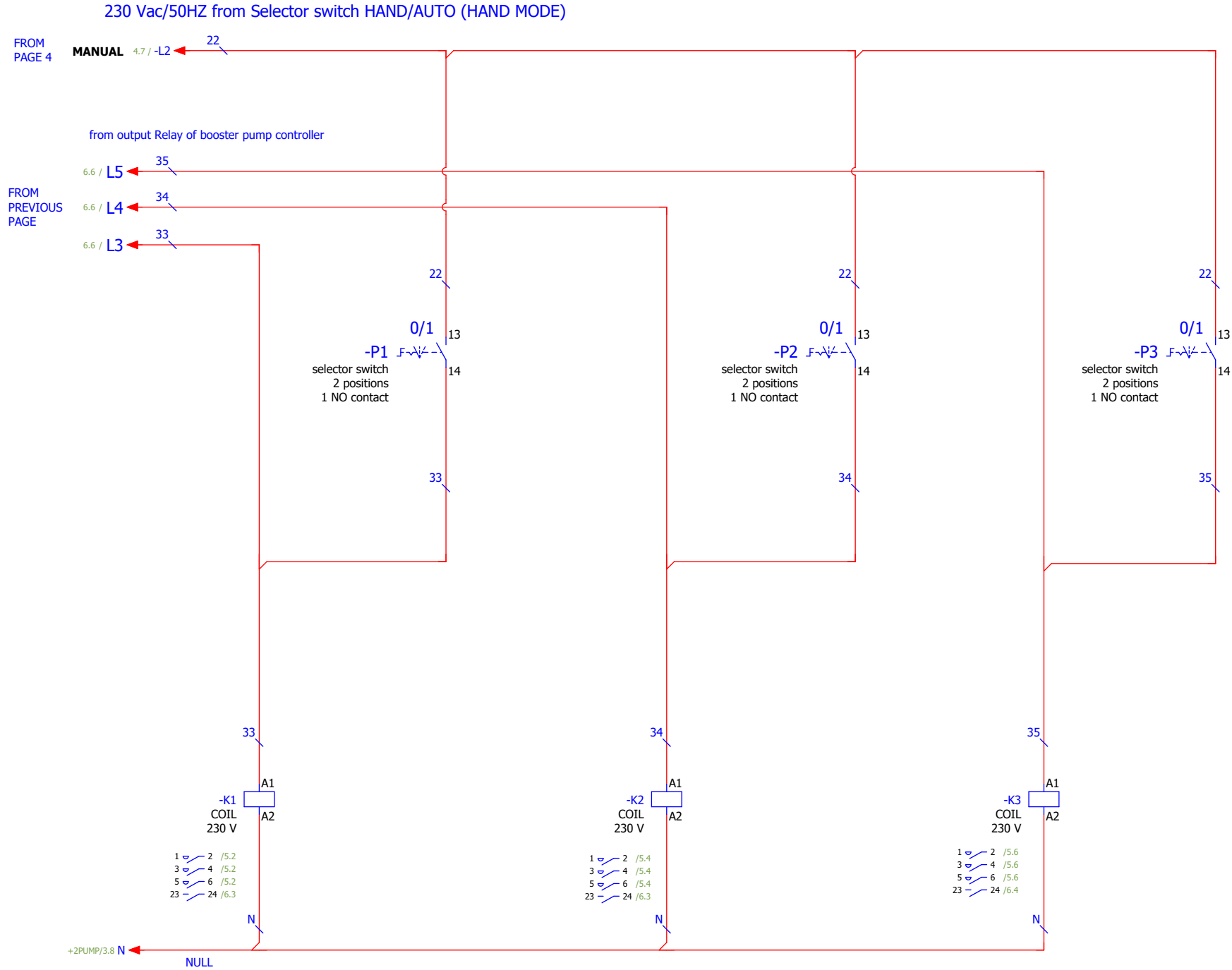
Manufacturer : Elecmarketing company

Power supply
3Phase 400 Vac/50HZ

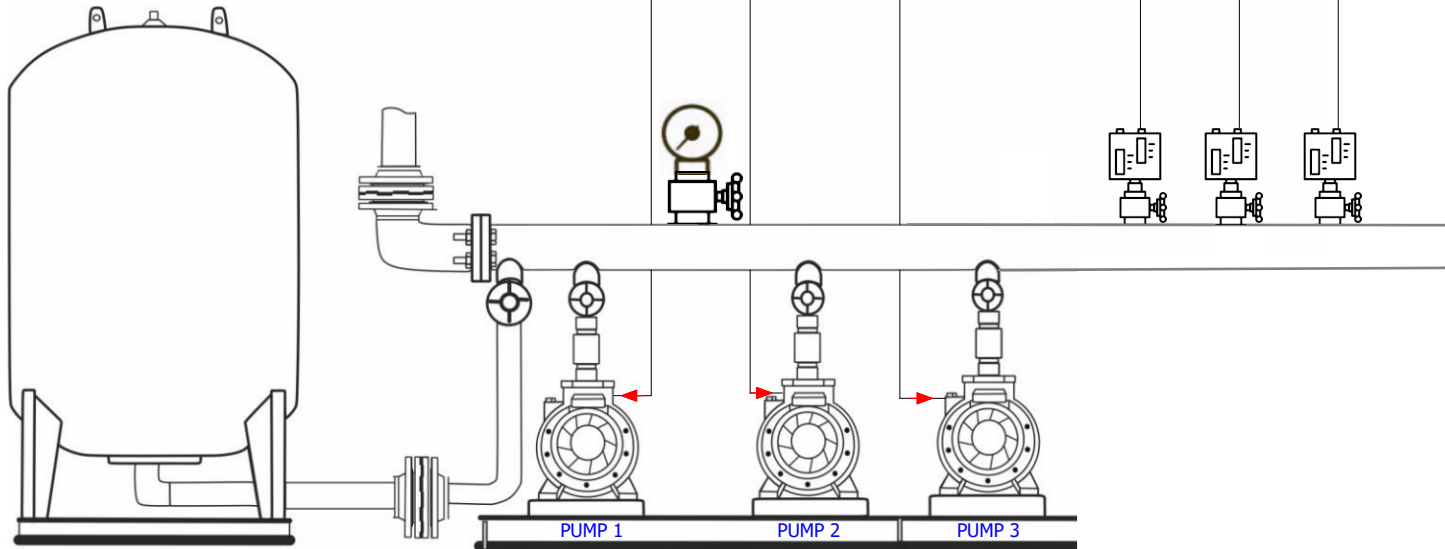
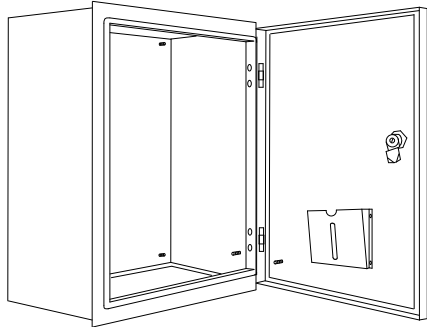
CREATION DATE :
1403/10/1

Manufacturer : Elecmarketing company

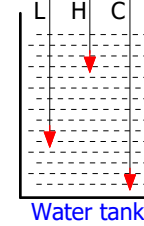
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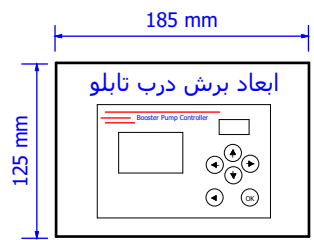


CONSUMER	Incoming	pump 1	pump 2	pump 3	Floater	Pressure Switch 1	Pressure Switch 2	Pressure Switch 3
TAG	-X1	-X2	-X3	-X4	-X5	-X6	-X7	-X8
TERMINAL STRIP								
number of terminal	R S T N	1 2 3 4	5 6 7 8	9 10 11 12	13 14 15	16 17	18 19	20 21

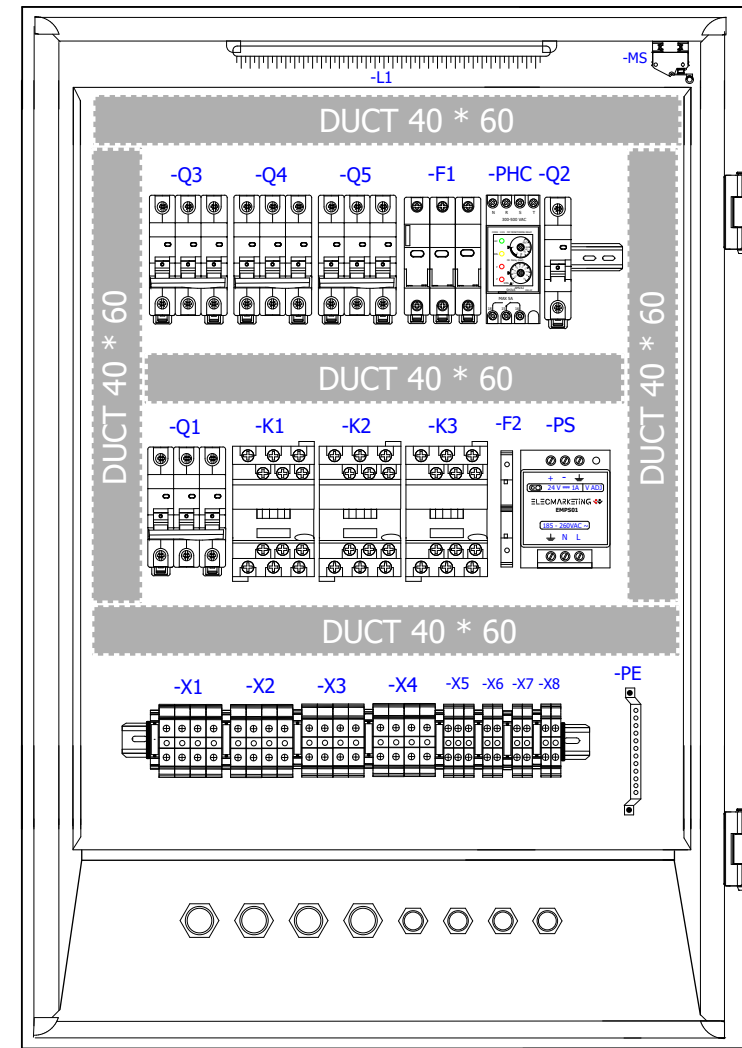
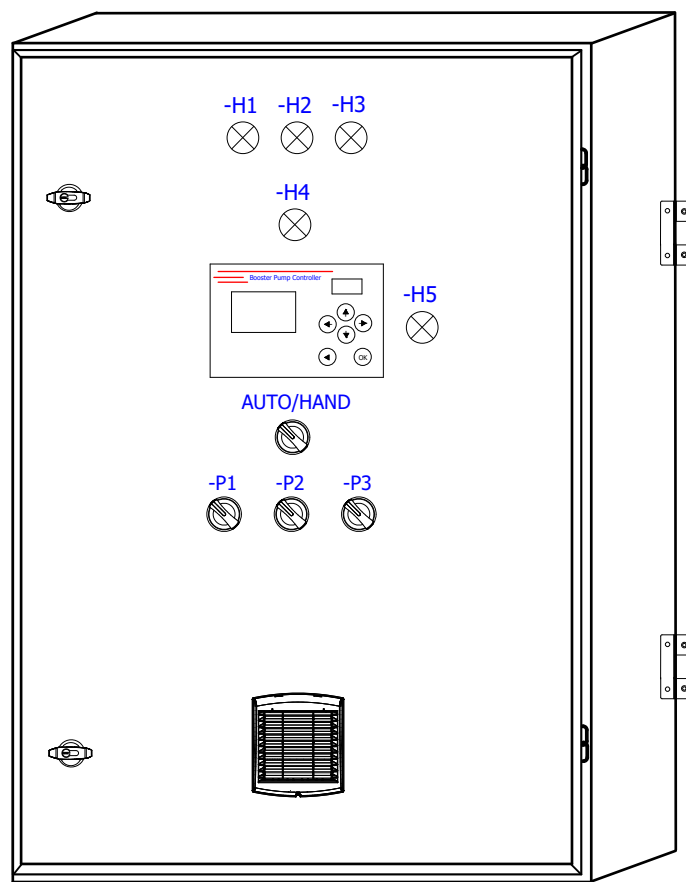


Booster pump overview

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Page number : 8	Number of pages: 9
Page type : Graphic	Page Description : Booster pump overview
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EXTERNAL VIEW



Panel layout

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Page number : 9	Number of pages: 9
Page type : Panel layout	Page Description : Panel layout
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Checked by : ENG.MOUSAVI	