

ELECMARKETING

Creator: Elecmarketing company

Project name: [Booster pump - 1 Pump](#)

Panel name: [Booster pump panel](#)


Working mode: [Mode 4](#)

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[Scan: Telegram channel](#)

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|  | | |
| CREATOR : Elecmarketing Group | Drawing by : B.soltani | |
| Page number : 1 | Number of pages: 8 | |
| Page type : Graphic | Page Description : Table of contents | Mounting panel :MCP panel |
| Project description: Mode 4 Boosterpump 1 Pump | Manufacturer : Elecmarketing company | Power supply 3Phase 400 Vac/50HZ |
| CREATION DATE : 1403/09/20 | 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 کنتاكت 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 |



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Drawing by :
B.soltani

Page number : 2

Number of pages: 8

Page type :
Graphic

Page Description :
Symbol table

Mounting panel : MCP panel

Project description:
Mode 4 Boosterpump
1 Pump

Manufacturer : Elecmarketing company

Power supply
3Phase 400 Vac/50HZ

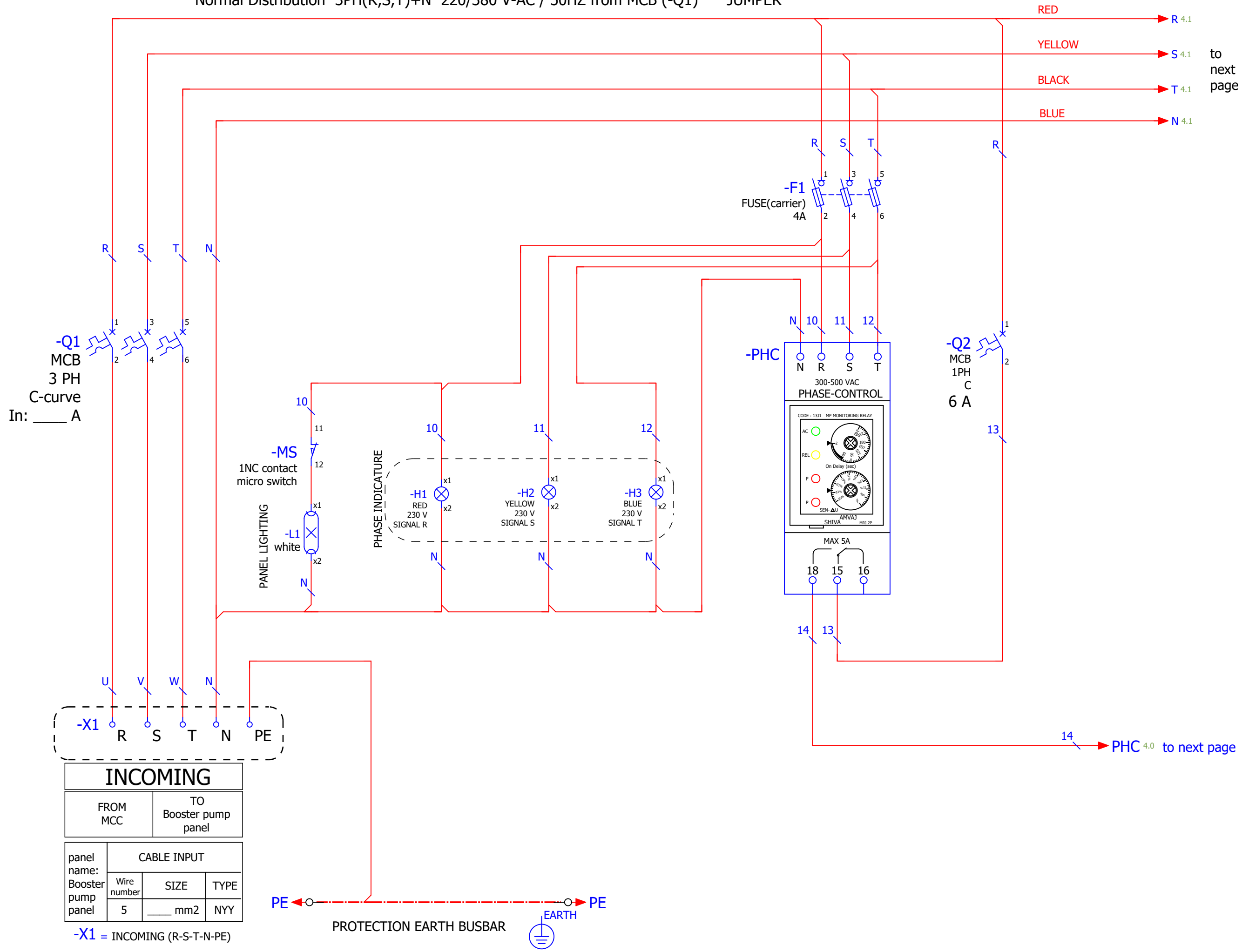
CREATION DATE :
1403/09/20

Checked by :
ENG.MOUSA VI

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

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

INCOMING



to next page

PHC 4.0 to next page



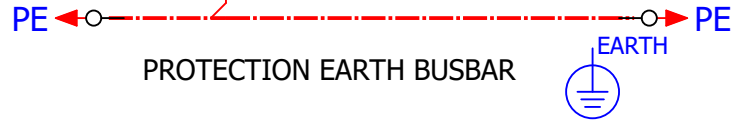
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|--|--------------------------------------|-------------------------------------|--|
| CREATOR : Elecmarketing Group | | Drawing by : B.soltani | |
| Page number : 3 | | Number of pages : 8 | |
| Page type : Schematic multi-line | Page Description : INCOMING | Mounting panel :MCP panel | |
| Project description: Mode 4 Boosterpump 1 Pump | Manufacturer : Elecmarketing company | Power supply 3Phase 400 Vac/50HZ | |
| CREATION DATE : 1403/09/20 | Checked by : ENG.MOUSAVI | | |

INCOMING

| | |
|-------------|-----------------------------|
| FROM MCC | TO Booster pump panel |
|-------------|-----------------------------|

| | | | |
|--|----------------|---------|------|
| panel name: Booster pump panel | CABLE INPUT | | |
| | Wire number | SIZE | TYPE |
| | 5 | ___ mm2 | NY Y |

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

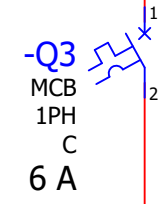
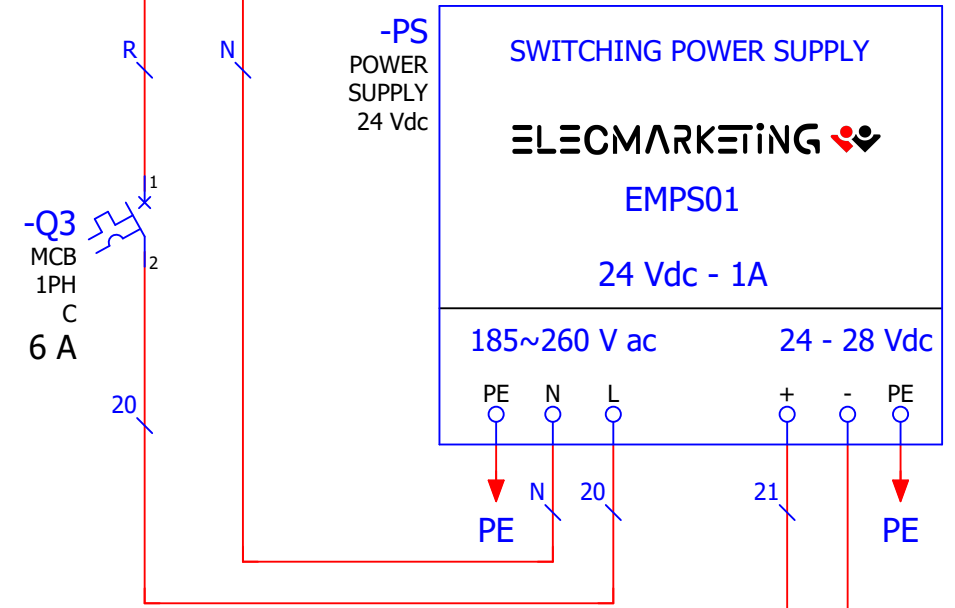
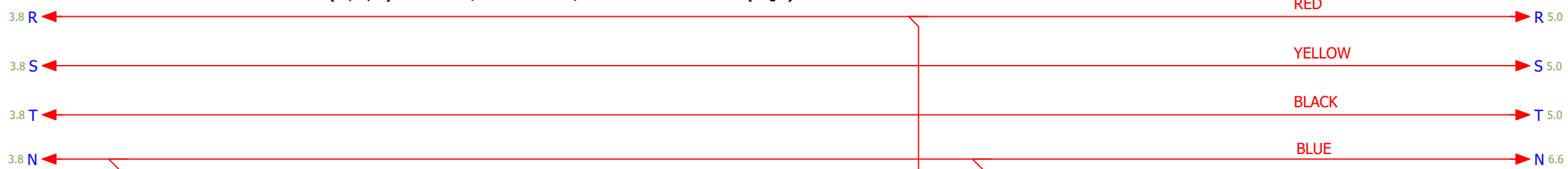


Normal Distribution 3PH(R,S,T)+N 220/380 V-AC / 50HZ from MCB (-Q1) JUMPER

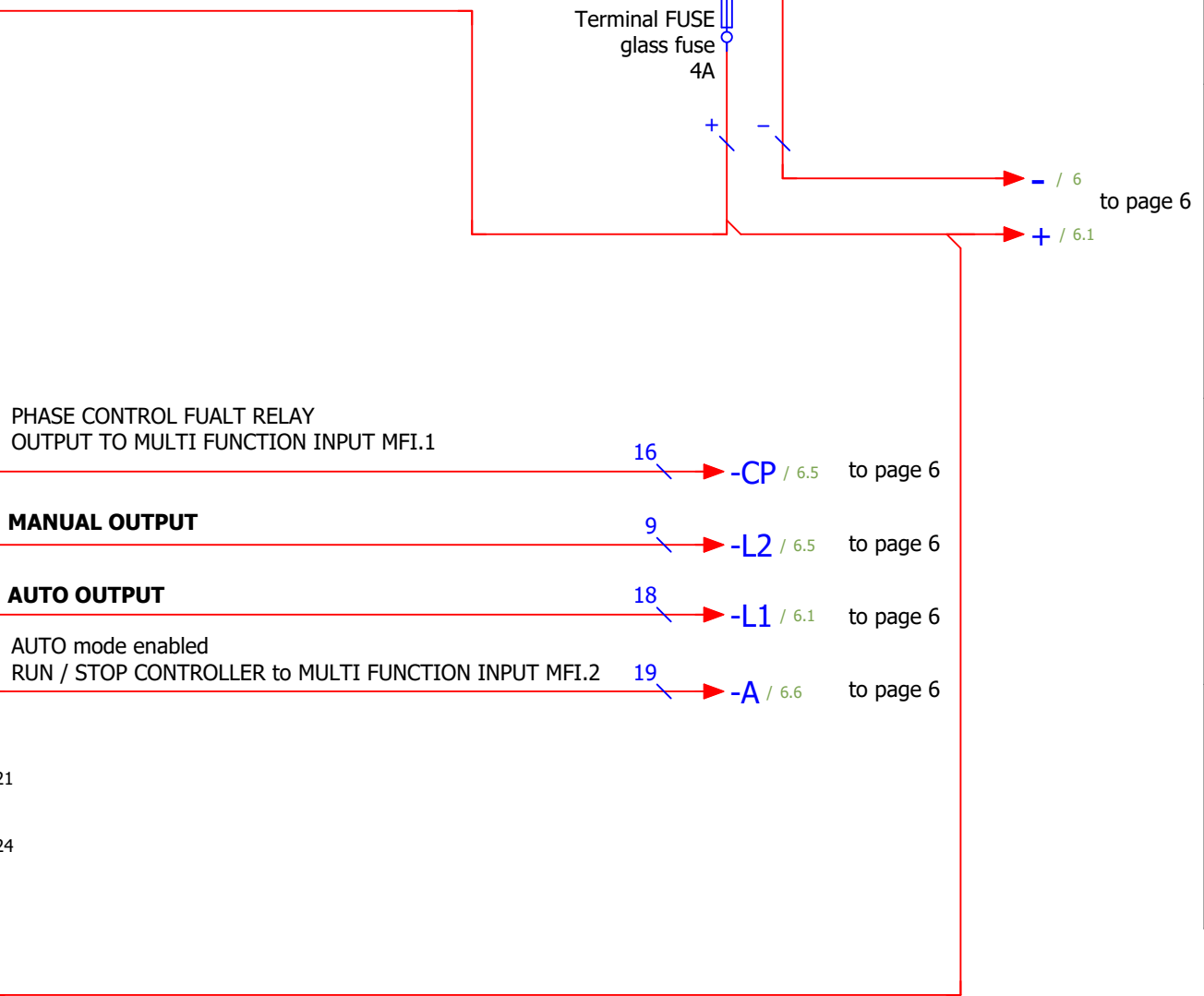
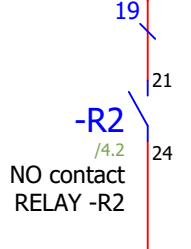
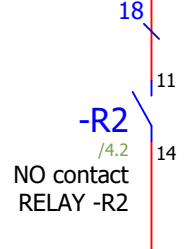
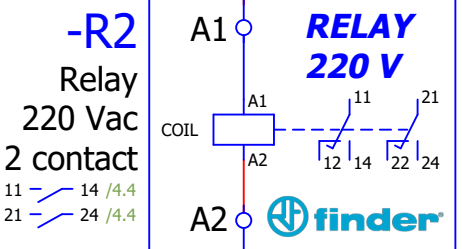
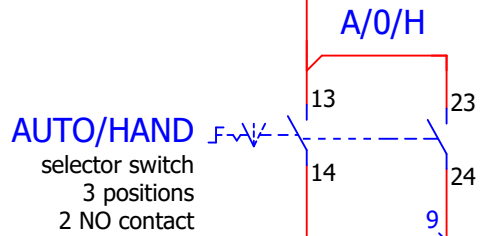
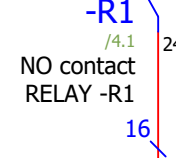
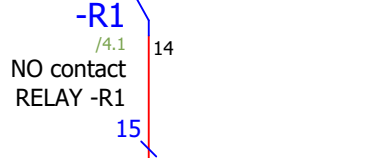
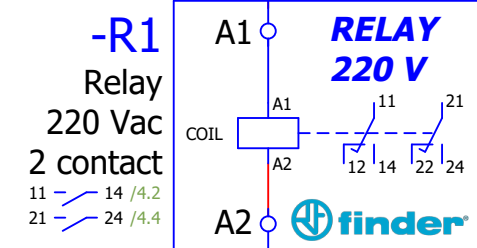
Hand & Auto diagram

FROM PREVIOUS PAGE

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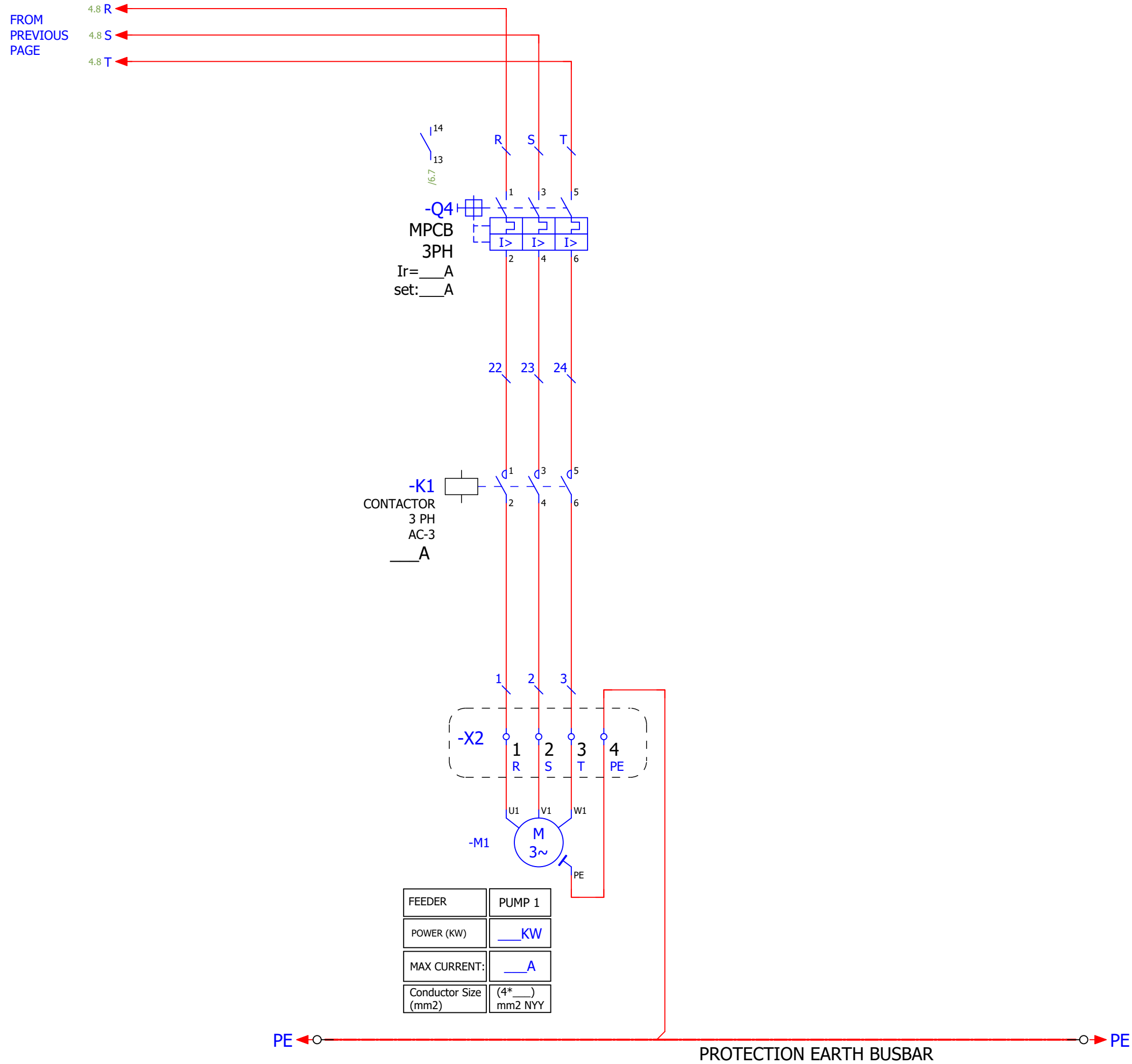
from control phase relay
3.7 PHC



| | |
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| ELECMARKETING | |
| CREATOR : Elecmarketing Group | Drawing by : B.soltani |
| Page number : 4 | Number of pages: 8 |
| Page type : Schematic multi-line | Page Description : Hand & Auto diagram |
| Project description: Mode 4 Boosterpump 1 Pump | Mounting panel :MCP panel |
| CREATION DATE : 1403/09/20 | Manufacturer : Elecmarketing company |
| | 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



| | |
|----------------------|------------------|
| FEEDER | PUMP 1 |
| POWER (KW) | ___ KW |
| MAX CURRENT: | ___ A |
| Conductor Size (mm2) | (4* ___) mm2 NYY |

| | |
|--|---|
| | |
| CREATOR : Elecmarketing Group | Drawing by : B.soltani |
| Page number : 5 | Number of pages: 8 |
| Page type : Schematic multi-line | Page Description : Power circuit diagram |
| Project description: Mode 4 Boosterpump 1 Pump | Mounting panel :MCP panel |
| Manufacturer : Elecmarketing company | Power supply 3Phase 400 Vac/50HZ |
| CREATION DATE : 1403/09/20 | Checked by : ENG.MOUSAVI |

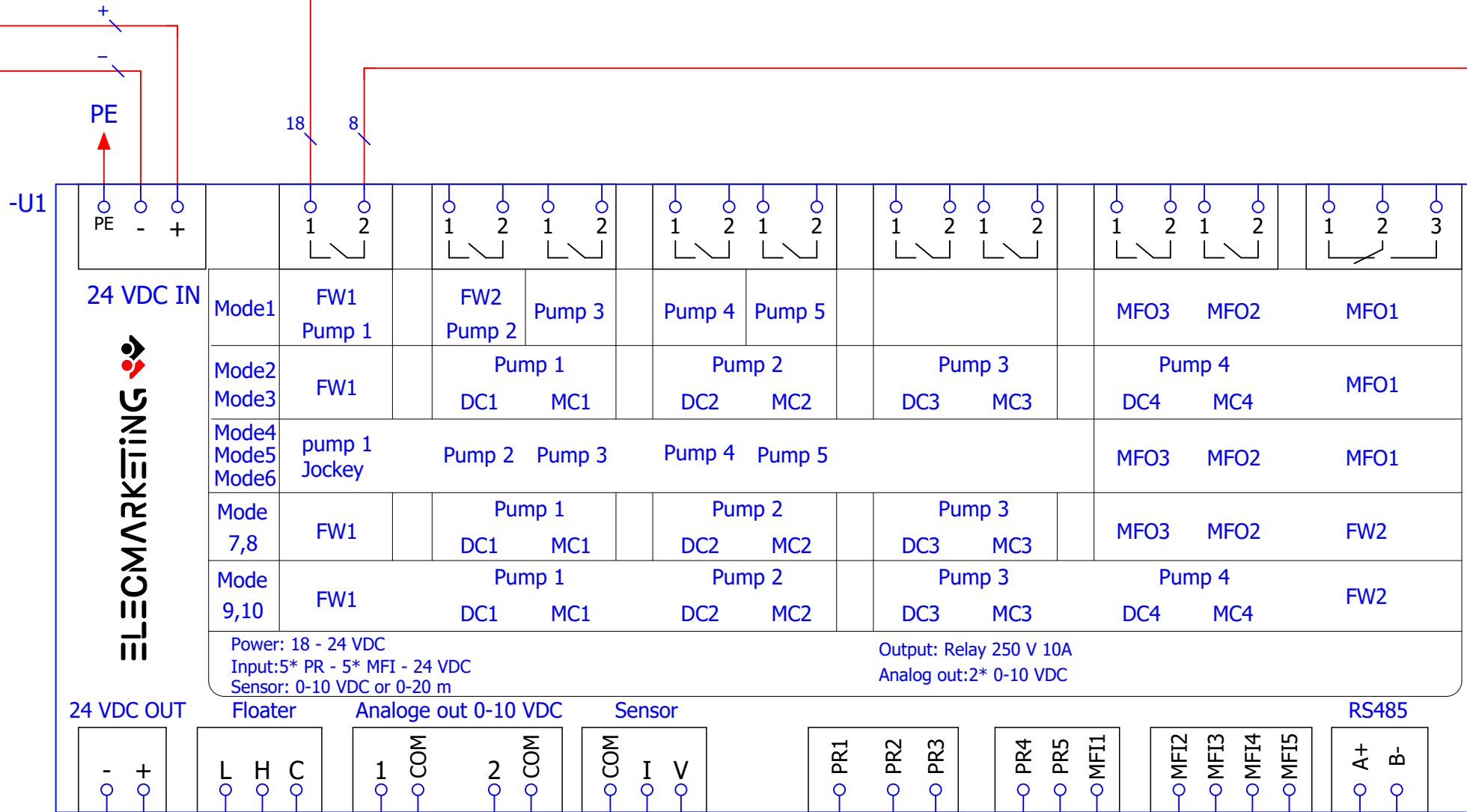
230 Vac from first contact of RELAY 2 (-R2) AUTO mode

230 Vac/50HZ from Selector switch HAND mode contact

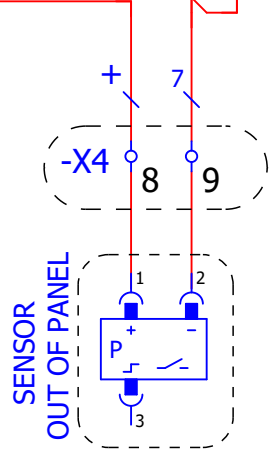
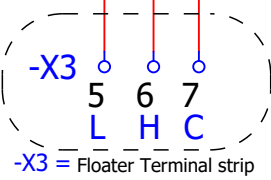
Controller schematic diagram

FROM PAGE 4

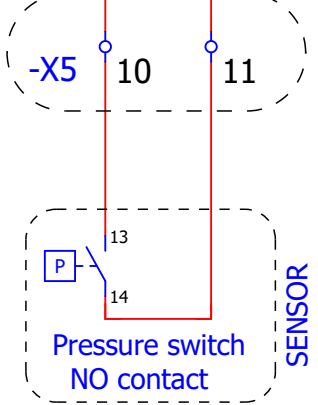
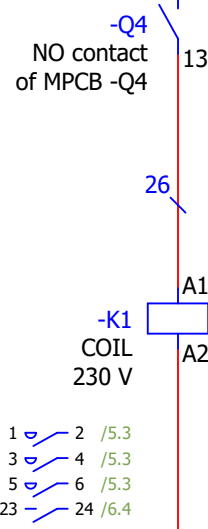
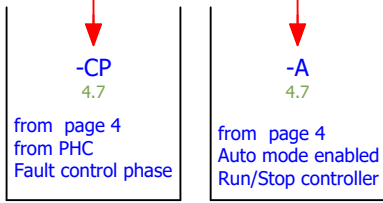
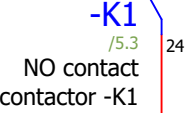
FROM PAGE 4



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Pressure Transmitter
 0 - 20 or 4 - 20 ma Analog sensor
 -X4 = Pressure Transmitter Terminal strip



FROM PAGE 4

24 Vdc from Switching power supply -PS

NULL

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Page number : 6
 Number of pages: 8

Page type : Schematic multi-line
 Page Description : Controller schematic diagram
 Mounting panel : MCP panel

Project description:
 Mode 4 Boosterpump
 1 Pump

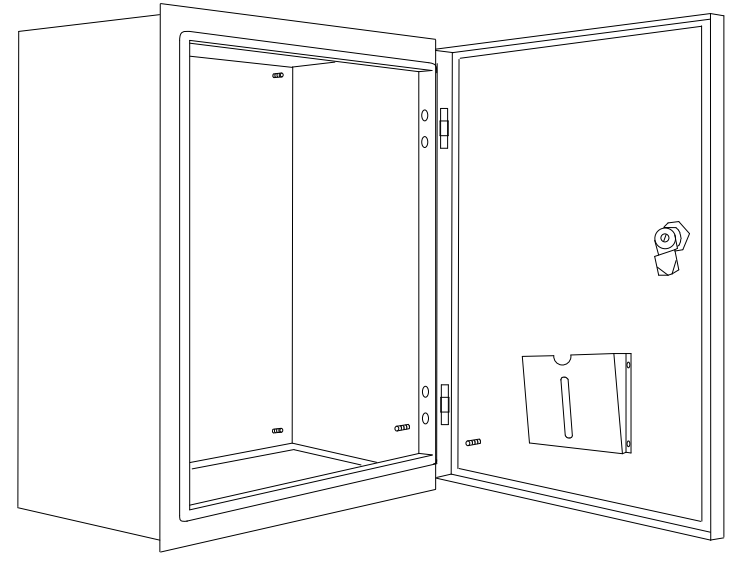
Manufacturer : Elecmarketing company
 Power supply
 3Phase 400 Vac/50HZ

Checked by : ENG.MOUSAVI

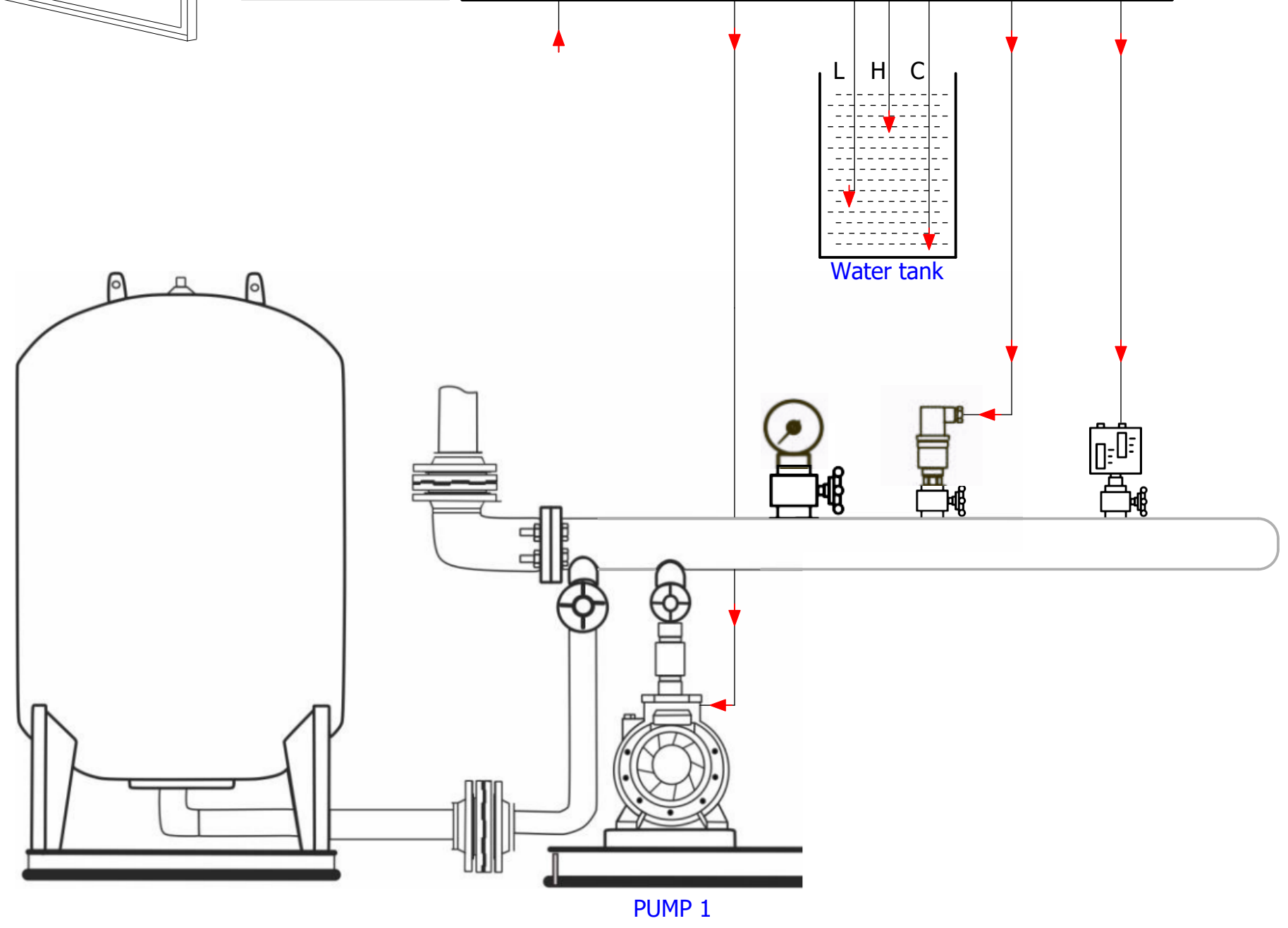
CREATION DATE : 1403/09/20

Booster pump overview

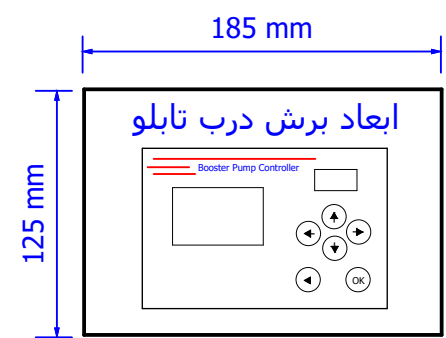
Control Panel



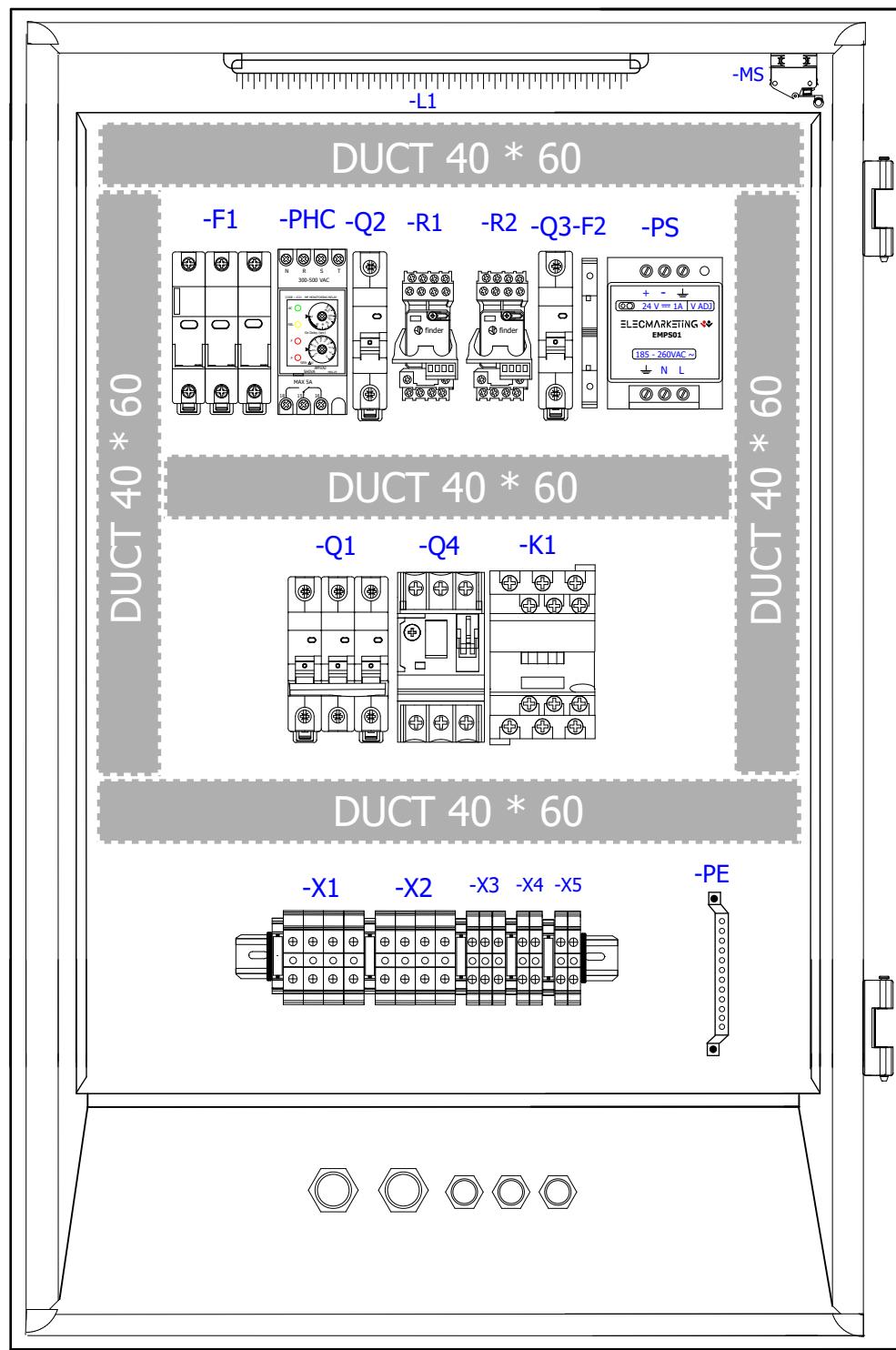
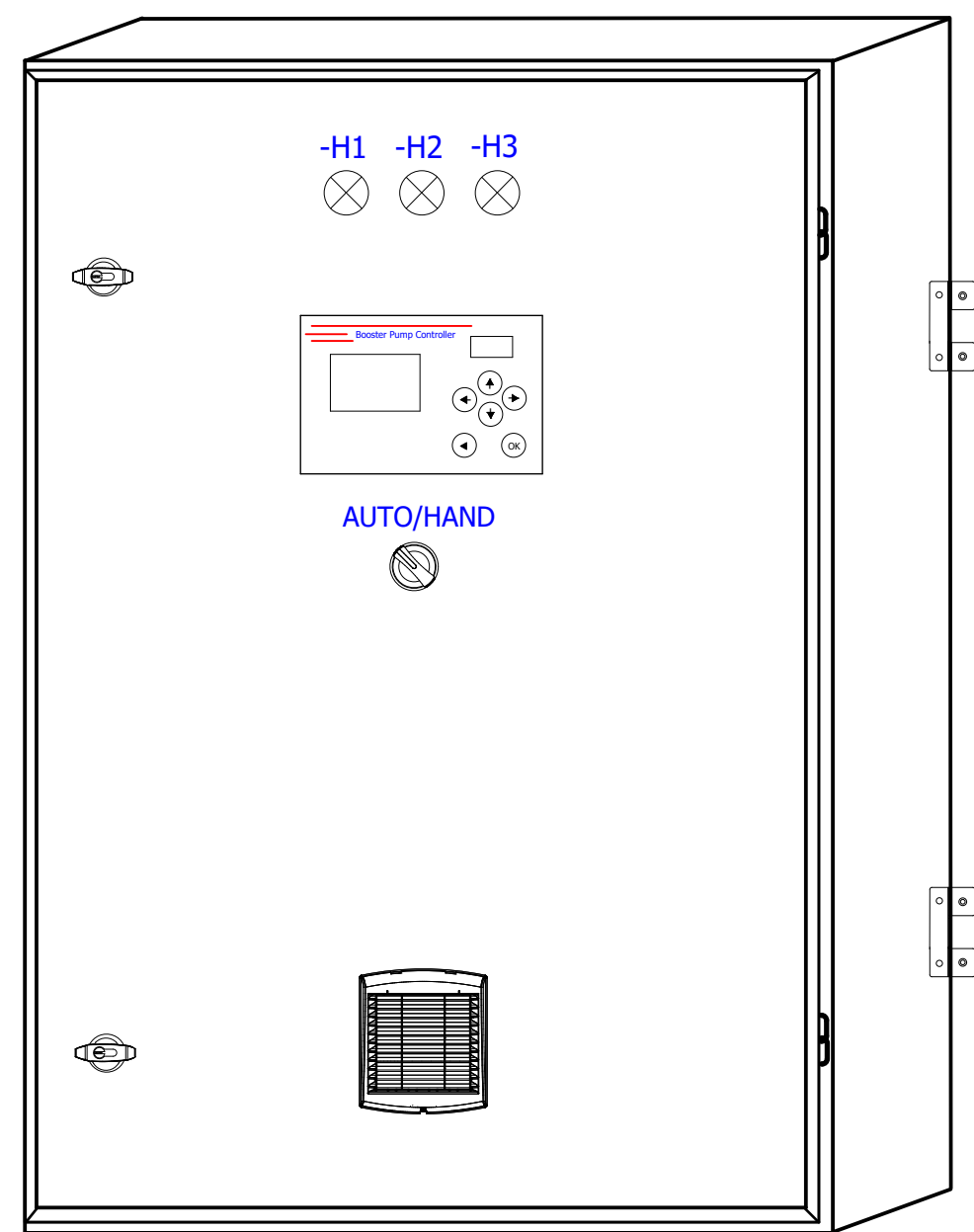
| CONSUMER | Incoming | pump 1 | Floater | Pressure Transmitter | Pressure Switch |
|--------------------|----------|---------|---------|----------------------|-----------------|
| TAG | -X1 | -X2 | -X3 | -X4 | -X5 |
| TERMINAL STRIP | | | | | |
| number of terminal | R S T N | 1 2 3 4 | 5 6 7 | 8 9 | 10 11 |



| | |
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| CREATOR : Elecmarketing Group | Drawing by : B.soltani |
| Page number : 7 | Number of pages: 8 |
| Page type : Graphic | Page Description : Booster pump overview |
| Project description: Mode 4 Boosterpump 1 Pump | Manufacturer : Elecmarketing company |
| CREATION DATE : 1403/09/20 | Checked by : ENG.MOUSAVI |
| Power supply 3Phase 400 Vac/50HZ | Mounting panel :MCP panel |



EXTERNAL VIEW



Panel layout

| | | | |
|----------------------|------------------------------|--------------------|------------------------|
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| | | Drawing by : | B.soltani |
| CREATION DATE : | 1403/09/20 | Page number : | 8 |
| Project description: | Mode 4 Boosterpump 1 Pump | Number of pages: | 8 |
| Manufacturer : | Electromarketing company | Page type : | Panel layout |
| Checked by : | ENG.MOUSAVI | Page Description : | Panel layout |
| | | Mounting panel : | MCP panel |
| | | Power supply | 3Phase 400 Vac/50HZ |