

ELECMARKETING

Creator: Elecmarketing company

Project name: [Booster pump - 1 DRIVE - 3 Pump](#)

Panel name: [Booster pump panel](#)


Working mode: [Mode 2 & 3](#)

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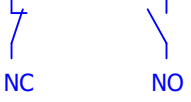
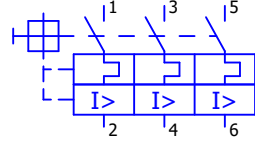

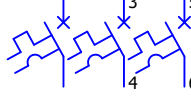
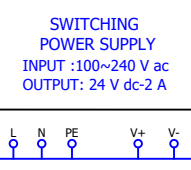

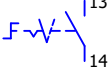
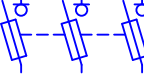
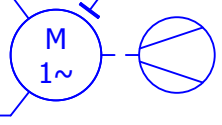
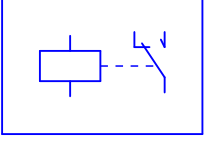
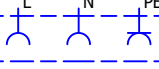




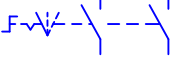


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[Scan: Telegram channel](#)

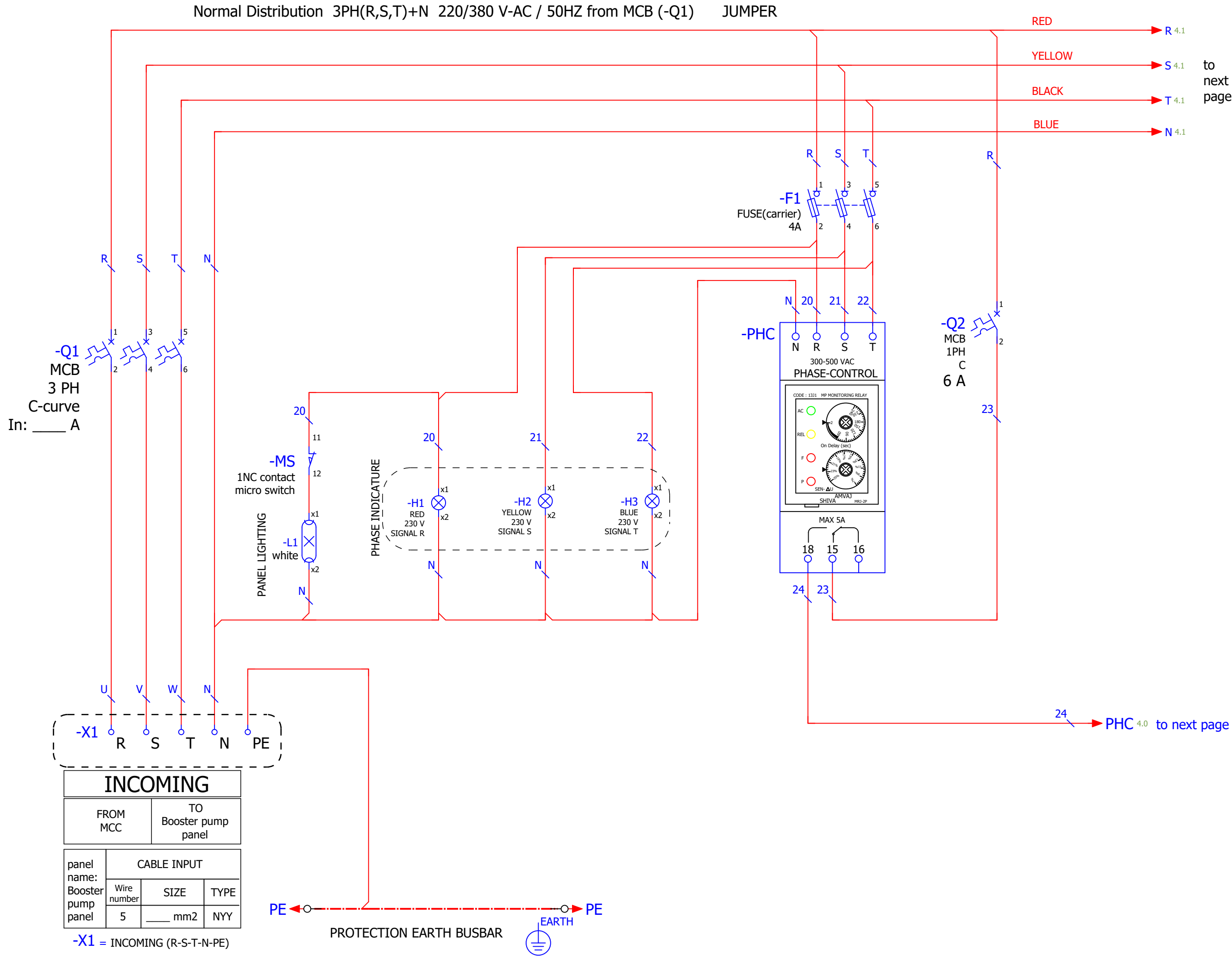
			
CREATOR : Elecmarketing Group		Drawing by : B.soltani	
Page number : 1		Number of pages: 10	
Page type : Graphic	Page Description : Table of contents		Mounting panel :MCP panel
Project description: Mode 2 & 3 Boosterpump 1 DRIVE - 3 Pump	Manufacturer : Elecmarketing company		Power supply 3phase 400 Vac/50HZ
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 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

		
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Page number : 2		
Page type : Graphic		Page Description : Symbol table
Project description: Mode 2 & 3 Boosterpump 1 DRIVE - 3 Pump		
Manufacturer : Elecmarketing company		Mounting panel :MCP panel
Power supply 3Phase 400 Vac/50HZ		
CREATION DATE : 1403/09/20	Checked by : ENG.MOUSA VI	
Manufacturer : Elecmarketing company		

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



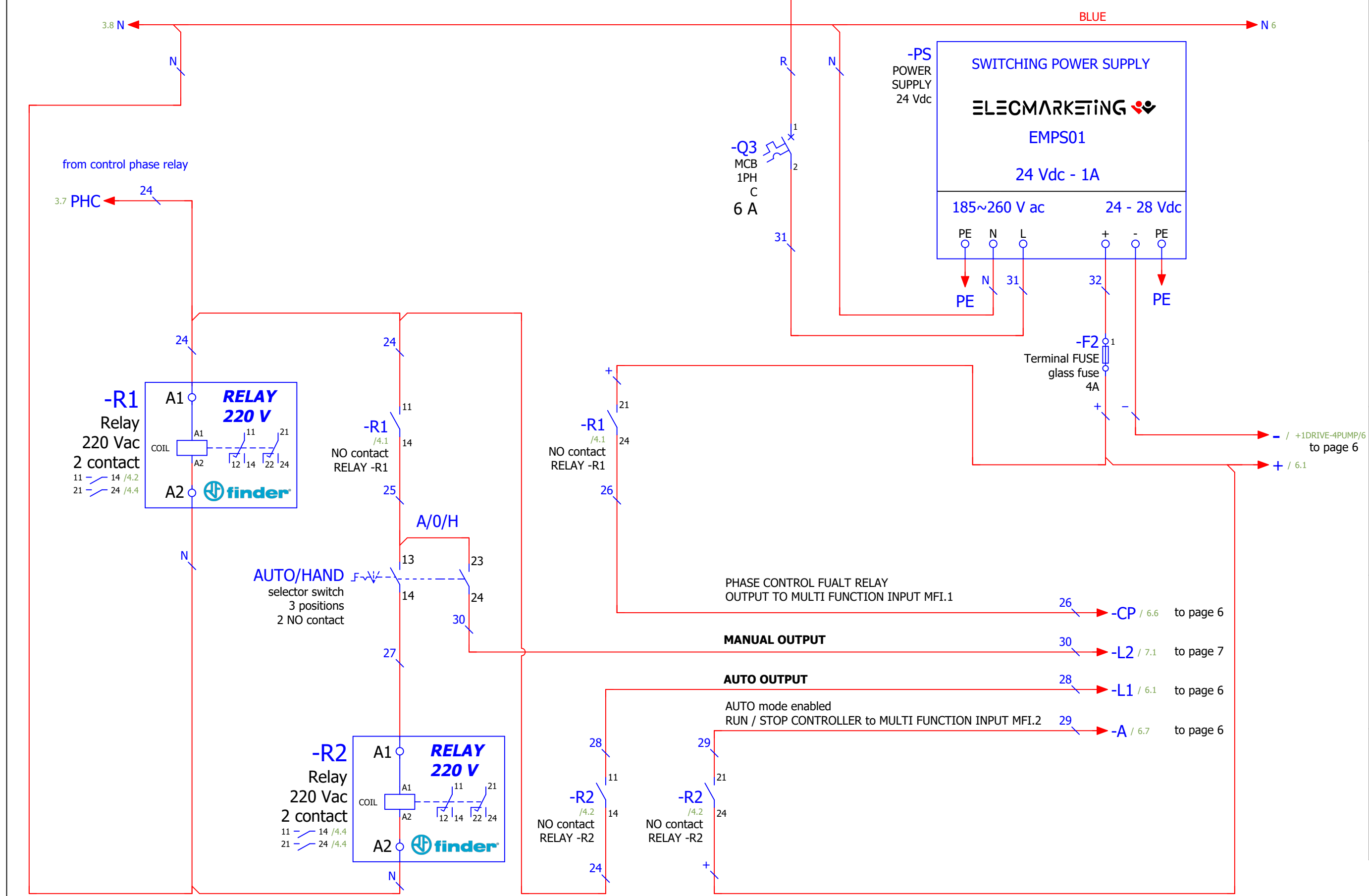
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Number of pages:	10	
Page type :	Schematic multi-line	
Page Description :	INCOMING	Mounting panel :MCP panel
Project description:	Mode 2 & 3 Boosterpump 1 DRIVE - 3 Pump	Power supply 3Phase 400 Vac/50HZ
CREATION DATE :	1403/09/20	Checked by : ENG.MOUSA VI
Manufacturer : Elecmarketing company		

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

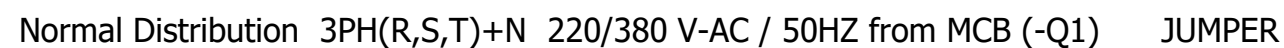
Hand & Auto diagram

FROM
PREVIOUS
PAGE

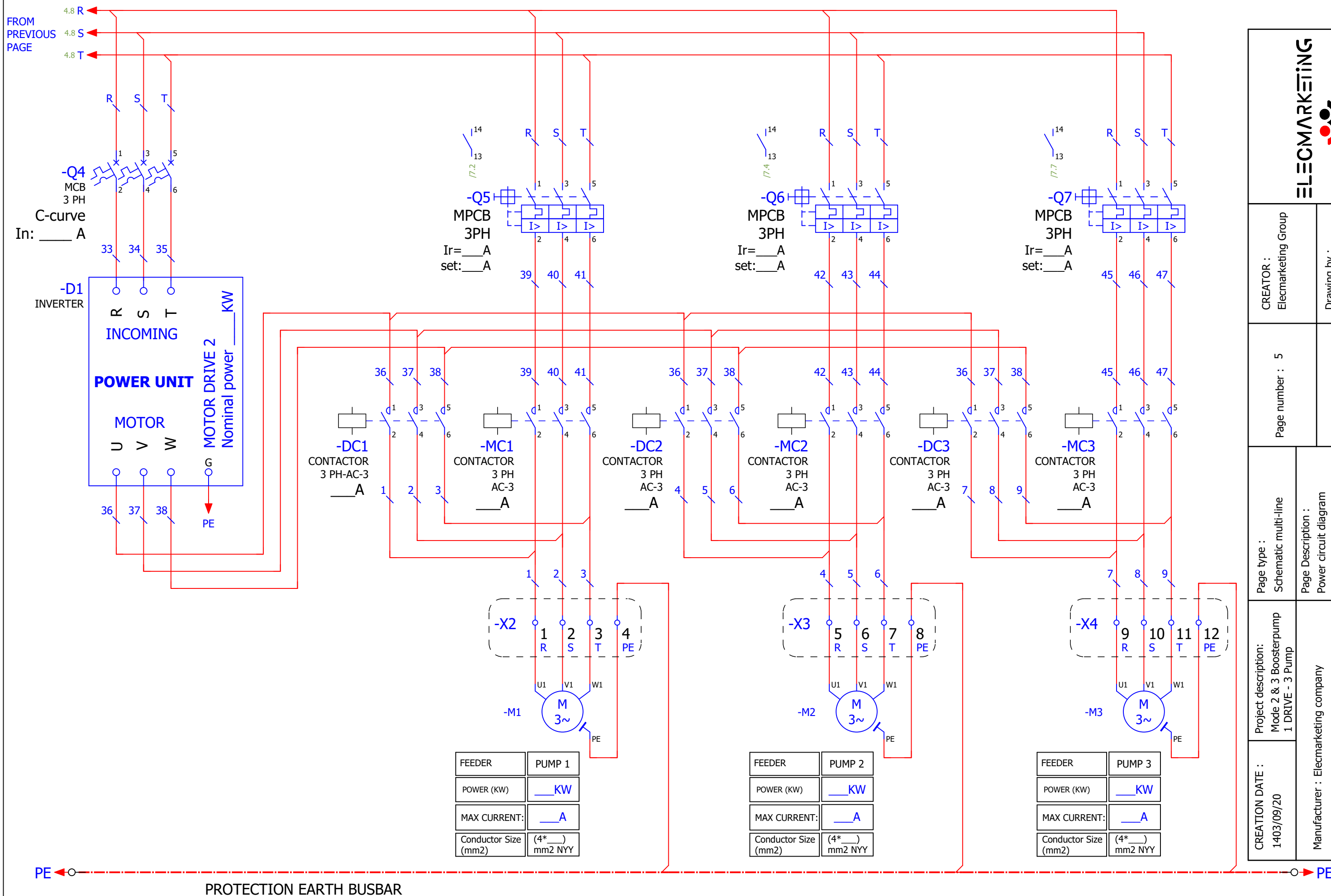
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next
page



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Page number : 4	Number of pages: 10
Page type : Schematic multi-line	Page Description : Hand & Auto diagram
Project description: Mode 2 & 3 Boosterpump 1 DRIVE - 3 Pump	Mounting panel :MCP panel
CREATION DATE : 1403/09/20	Power supply 3Phase 400 Vac/50HZ
Manufacturer : Elecmarketing company	Checked by : ENG.MOUSA VI



Power circuit diagram



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

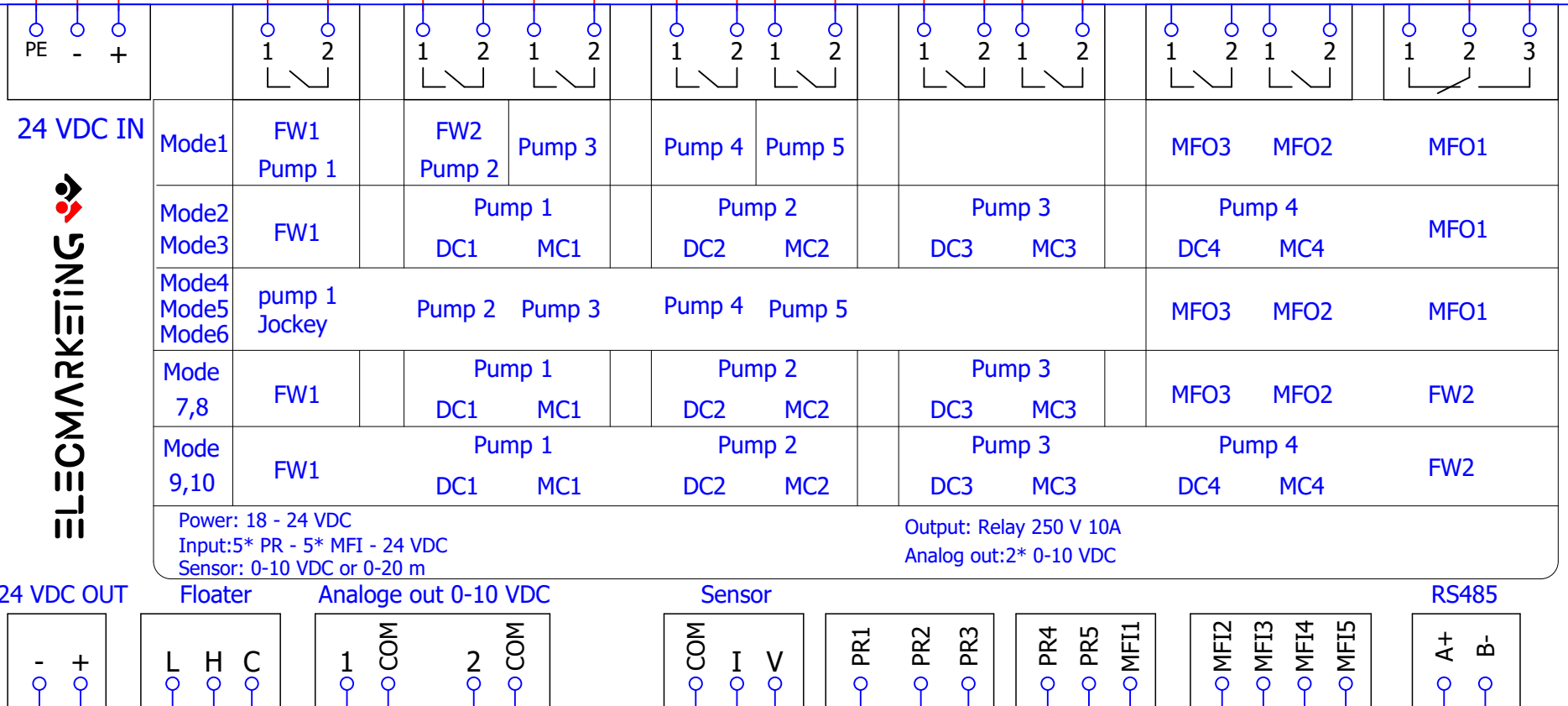
FROM
PAGE 4

AUTO 4.7 / -L1

28

PE

-U1



ELECMARKETING

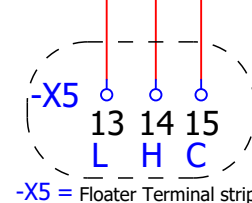
24 VDC OUT

Floater

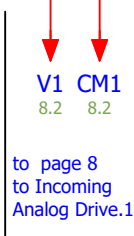
Analogue out 0-10 VDC

Sensor

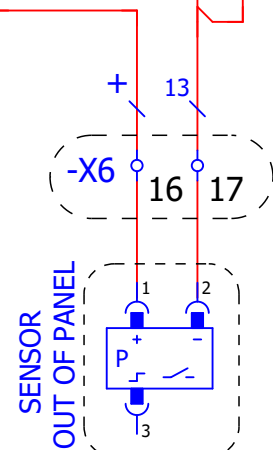
RS485



-X5 = Floater Terminal strip



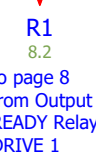
to page 8
to Incoming
Analog Drive.1



SENSOR
OUT OF PANEL

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

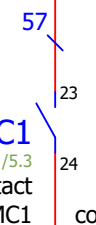
-X6 = Pressure Transmitter Terminal strip



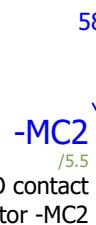
to page 8
from Output
READY Relay
DRIVE 1



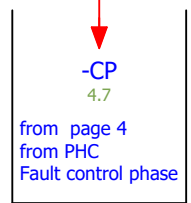
NO contact
contactor -MC1



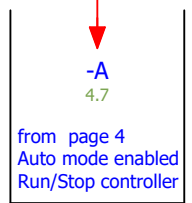
NO contact
contactor -MC2



NO contact
contactor -MC3



from page 4
from PHC
Fault control phase



from page 4
Auto mode enabled
Run/Stop controller

FROM
PAGE 4

4.8 / +

6 / -

24 Vdc from Switching power supply -PS

to
next
page

4.8 N

NULL

N 7.0

Controller schematic diagram

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CREATOR :
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B.soltani

Page number : 6

Number of pages: 10

Page type :
Schematic multi-line

Page Description :
Controller schematic diagram

Mounting panel : MCP panel

Project description:
Mode 2 & 3 Boosterpump
1 DRIVE - 3 Pump

Manufacturer : Elecmarketing company

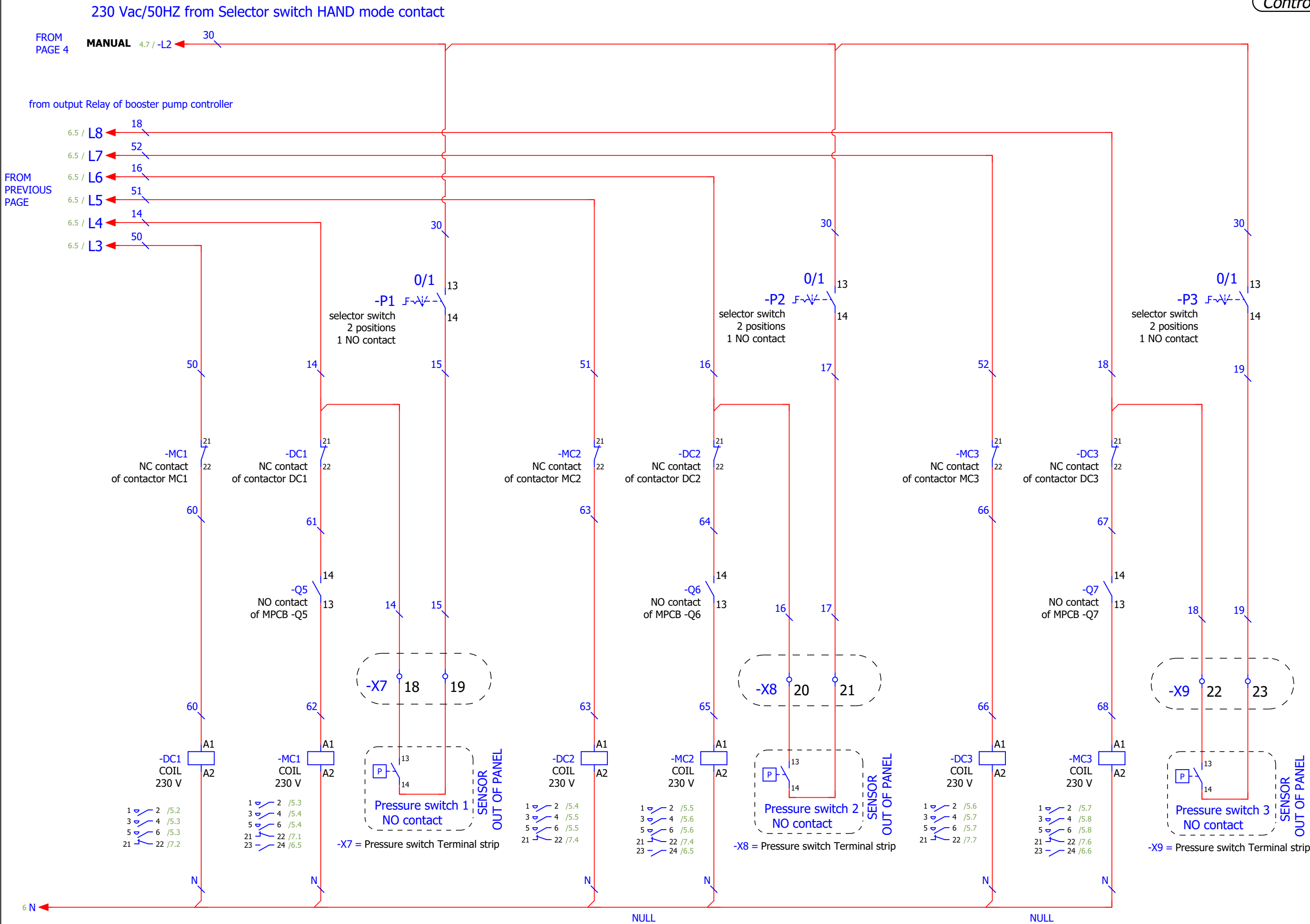
Power supply
3phase 400 Vac/50HZ


CREATION DATE :
1403/09/20

Manufacturer : Elecmarketing company

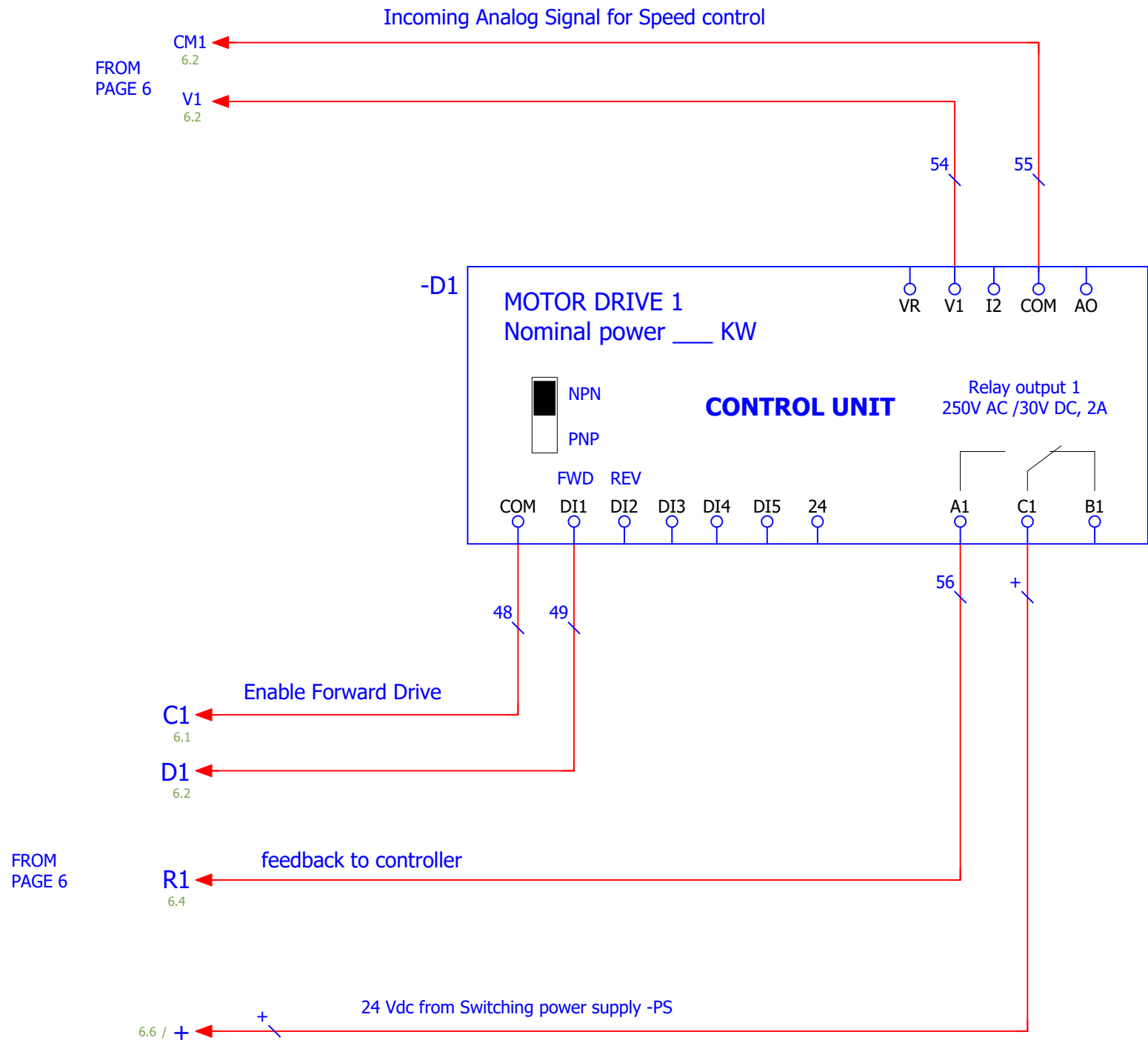
Checked by :
ENG.MOUSA VI


Control circuit diagram

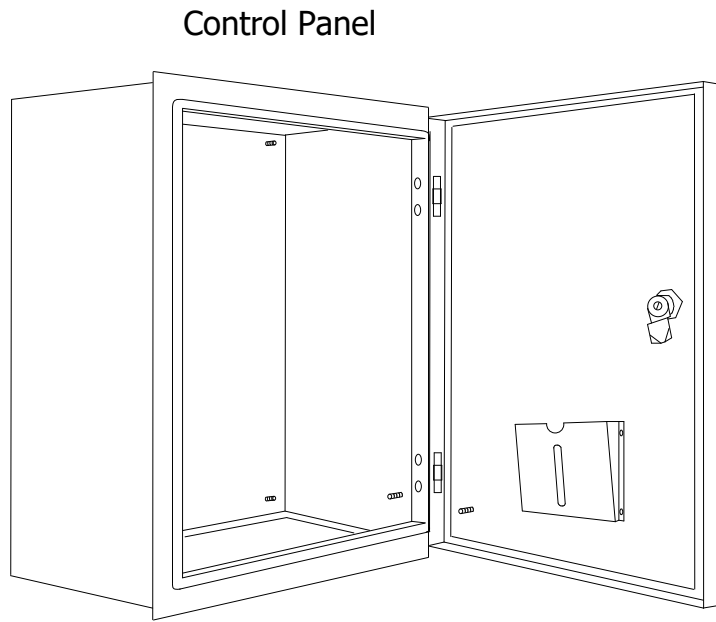


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Manufacturer : Elecmarketing company				Page Description : Control circuit diagram		Number of pages: 10		Drawing by : B.soltani			
Checked by : ENG.MOUSA VI		Power supply 3Phase 400 Vac/50HZ		Mounting panel : MCP panel							

Drive circuit diagram

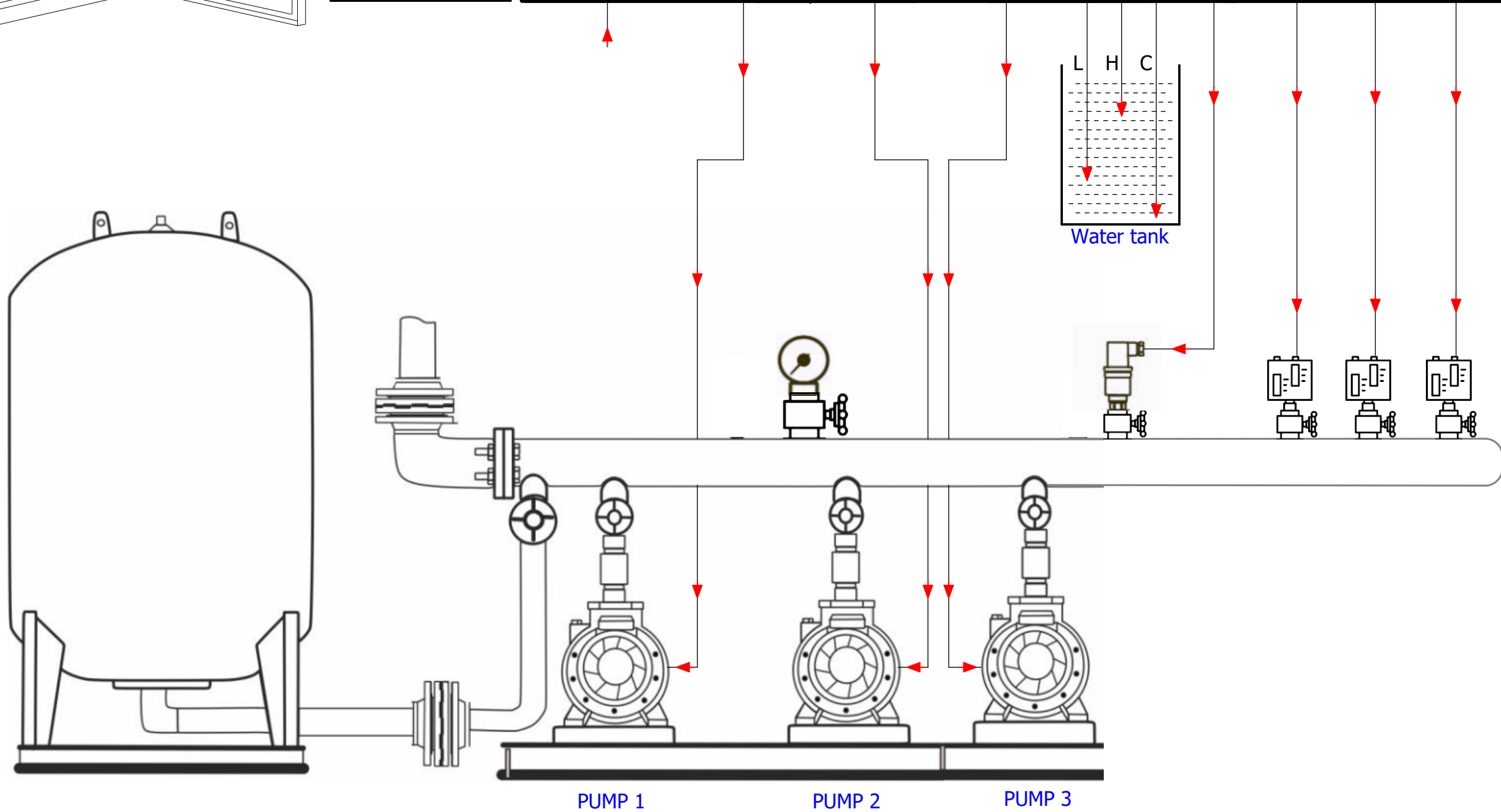


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Page type : Schematic multi-line	Page Description : Drive circuit diagram	
Project description: Mode 2 & 3 Boosterpump 1 DRIVE - 3 Pump		
Manufacturer : Elecmarketing company		Power supply 3Phase 400 Vac/50HZ
CREATION DATE : 1403/09/20	Checked by : ENG.MOUSA VI	
Mounting panel :MCP panel		



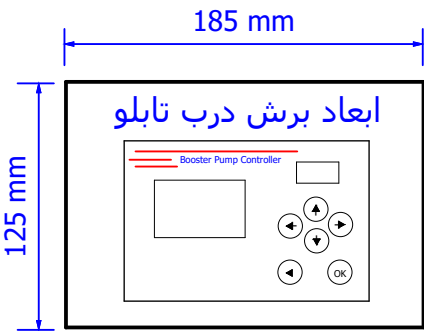
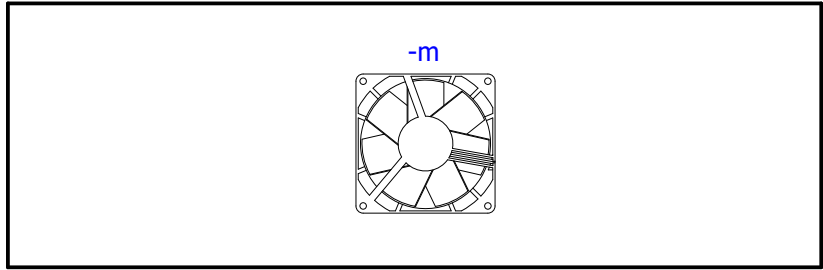
Booster pump overview

CONSUMER	Incoming	pump 1	pump 2	pump 3	Floater	Pressure Transmitter	Pressure Switch 1	Pressure Switch 2	Pressure Switch 3
TAG	-X1	-X2	-X3	-X4	-X5	-X6	-X7	-X8	-X9
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

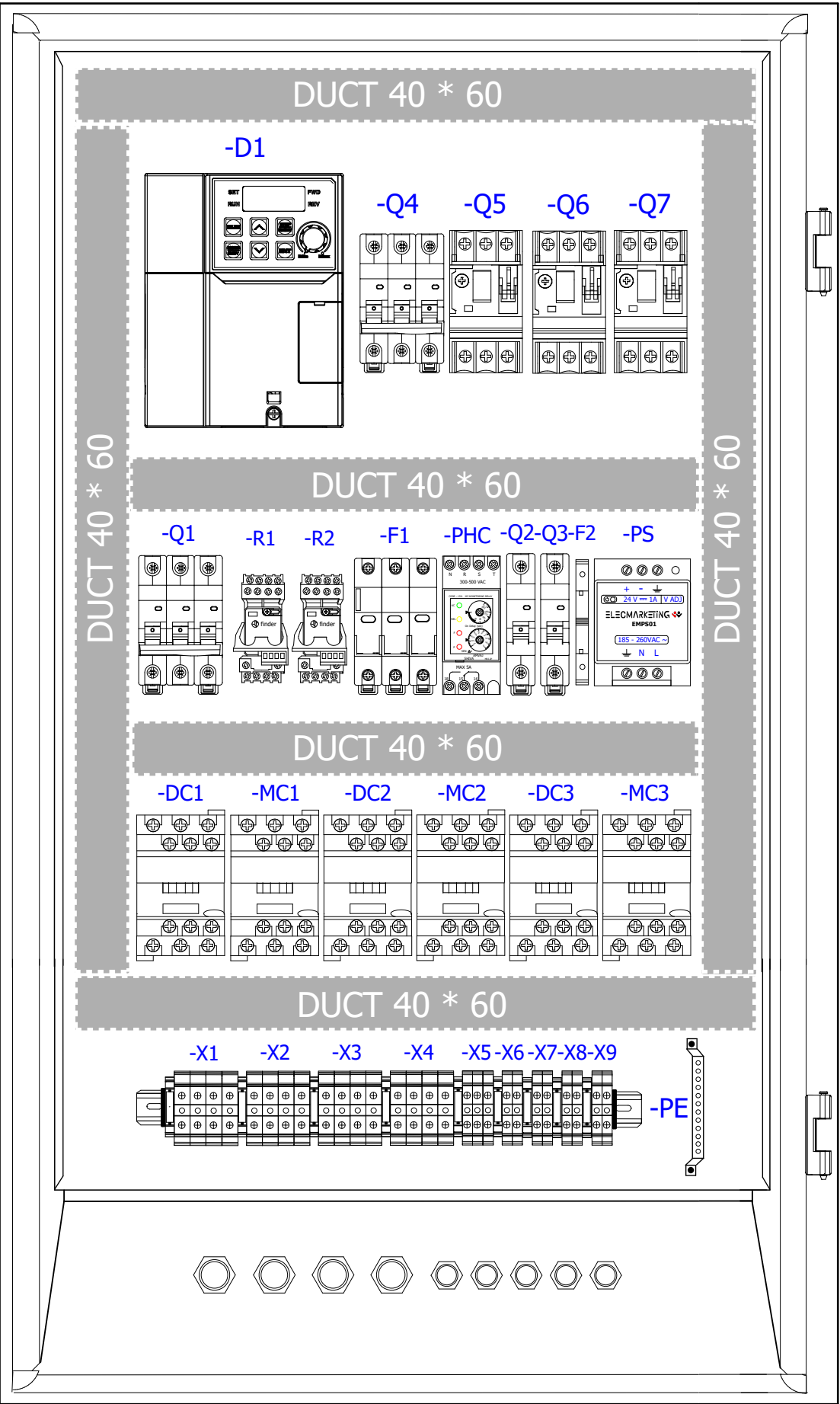
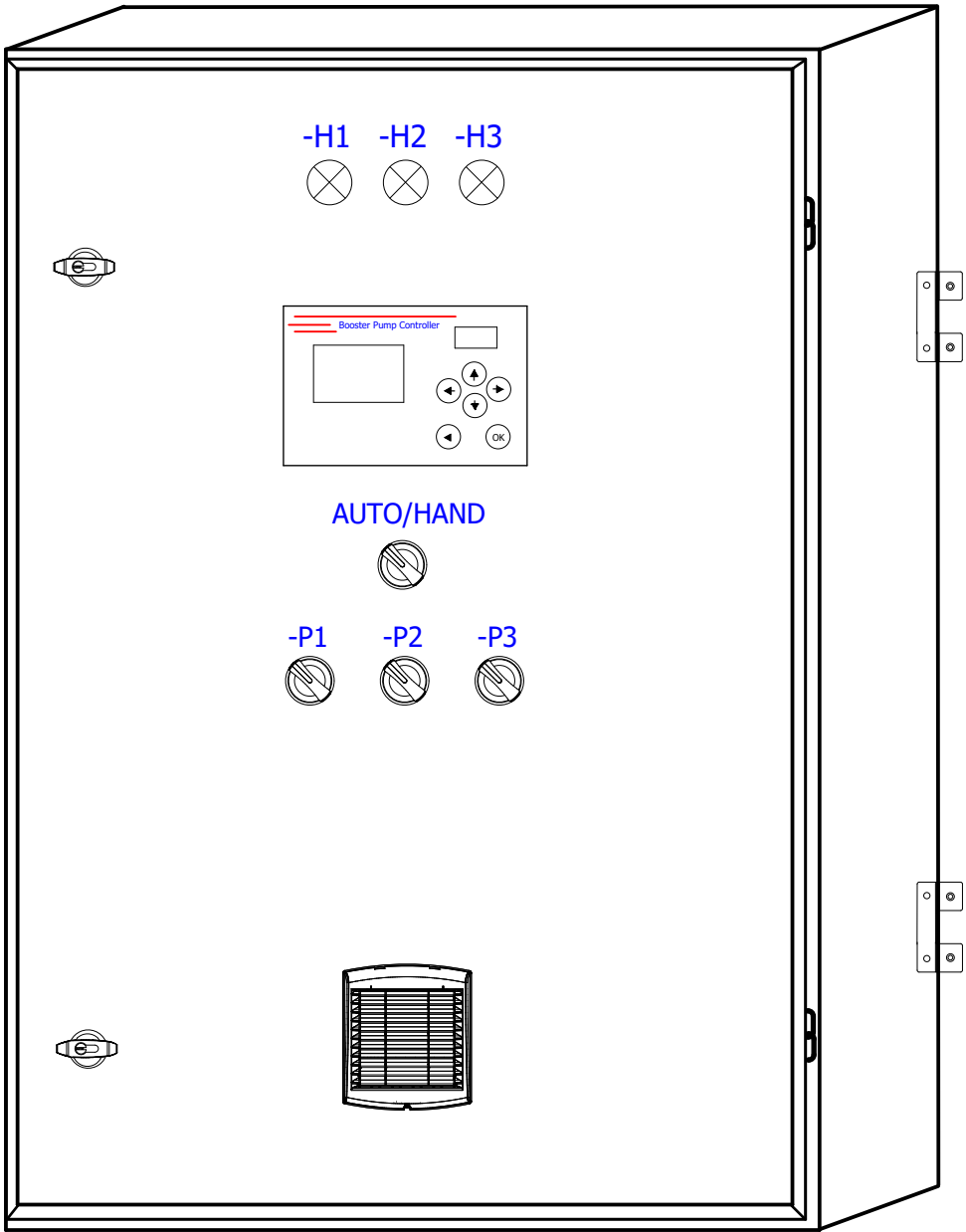


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Page number : 9	Number of pages: 10	
Page type : Graphic	Page Description : Booster pump overview	Mounting panel :MCP panel
Project description: Mode 2 & 3 Boosterpump 1 DRIVE - 3 Pump	Manufacturer : Elecmarketing company	
CREATION DATE : 1403/09/20	Checked by : ENG.MOUSAVI	Power supply 3phase 400 Vac/50HZ

TOP VIEW



EXTERNAL VIEW



Panel layout

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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 2 & 3 Boosterpump 1 DRIVE - 3 Pump	Manufacturer : Elecmarketing company	
CREATION DATE : 1403/09/20	Checked by : ENG.MOUSAVI	Power supply 3Phase 400 Vac/50HZ