

# Switchgears Multi line Diagram

Project Name : FOOD INDUSTRIES

Project Description : ALBORZ POWDRE ATLAS

Client Name : \*\*\*  
Client Phone Number : \*\*\*  
Client Location : \*\*\*  
Client Fax : \*\*\*

Panel Name : O3NLP01  
Document Number : \*\*\*  
Document Title : MLD & WD  
Cheked by & Approval by : MR.FEYZI  
Drawing By : AMIR.M.ABEDI



Autocad 2024

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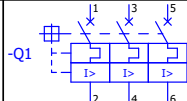
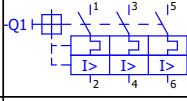
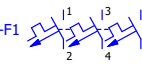
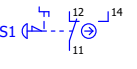
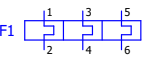
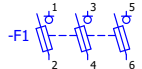
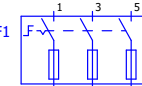
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|-----------------------|---------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------|----------|-------------------|------------------|-----|--------------|--------|--------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Project name :        | FOOD INDUSTRIES     | Electrical panel input : Up <input type="checkbox"/> Down <input checked="" type="checkbox"/>             | Manufacturer :                           | Client : | Panel name :      | Document title : | 05  | ***          | ***    | ***          | This document contains information<br>belonging to fan avaran pooya sanat<br>bargh azarkhsh Company<br>copying and reproduction is illeg |
|                       |                     | Electrical panel output : Up <input type="checkbox"/> Down <input checked="" type="checkbox"/>            |                                          |          |                   |                  | 04  | ***          | ***    | ***          |                                                                                                                                          |
| Project description : | ALBORZ POWDRE ATLAS | Position of electrical panel : Standing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> |                                          |          |                   |                  | 03  | ***          | ***    | ***          |                                                                                                                                          |
|                       |                     | Drawing by : AMIR.M.ABEDI                                                                                 |                                          |          |                   |                  | 02  | ***          | ***    | ***          |                                                                                                                                          |
|                       |                     |                                                                                                           |                                          |          |                   |                  | 01  | ***          | ***    | ***          |                                                                                                                                          |
|                       |                     |                                                                                                           |                                          |          | Document number : |                  | Rev | Descriptions | Date : | Checked by : | Page : 1 / 12                                                                                                                            |
|                       |                     |                                                                                                           | fan avaran pooya sanat<br>bargh azarkhsh | ***      | O3NLP01           | MLD & WD         |     |              |        |              |                                                                                                                                          |

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|          |                                    |              |            | 00       | 01 | 02 | 03 | 04 | 05 |          |             |          |            | 00       | 01 | 02 | 03 | 04 | 05 |
| 1        | Title page / cover sheet           | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
| 2        | Table of contents                  | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
| 3        | Parts symbol                       | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
| 4        | Parts symbol                       | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
| 5        | Parts symbol                       | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
| 6        | Technical information of the panel | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
| 7        | Wiring                             | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
| 8        | Wiring                             | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
| 9        | Wiring                             | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
| 10       | Wiring                             | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
| 11       | Wiring                             | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
| 12       | Wiring                             | AMIR.M.ABEDI | 1404/08/07 |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
|          |                                    |              |            |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
|          |                                    |              |            |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |
|          |                                    |              |            |          |    |    |    |    |    |          |             |          |            |          |    |    |    |    |    |

|                       |                     |                                                                                                           |                                         |          |                   |                  |     |              |        |              |                                                                                                                                         |
|-----------------------|---------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------|----------|-------------------|------------------|-----|--------------|--------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Project name :        | FOOD INDUSTRIES     | Electrical panel input : Up <input type="checkbox"/> Down <input checked="" type="checkbox"/>             | Manufacturer :                          | Client : | Panel name :      | Document title : | 05  | ***          | ***    | ***          | This document contains information<br>belonging to fan avaran pooya sanat<br>bargh azarksh Company<br>copying and reproduction is illeg |
| Project description : | ALBORZ POWDRE ATLAS | Electrical panel output : Up <input type="checkbox"/> Down <input checked="" type="checkbox"/>            | fan avaran pooya sanat<br>bargh azarksh | ***      | O3NLP01           | MLD & WD         | 04  | ***          | ***    | ***          |                                                                                                                                         |
|                       |                     | Position of electrical panel : Standing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> |                                         |          | Document number : |                  | 03  | ***          | ***    | ***          |                                                                                                                                         |
|                       |                     | Drawing by : AMIR.M.ABEDI                                                                                 |                                         |          | ***               |                  | 02  | ***          | ***    | ***          |                                                                                                                                         |
|                       |                     |                                                                                                           |                                         |          |                   |                  | 01  | ***          | ***    | ***          |                                                                                                                                         |
|                       |                     |                                                                                                           |                                         |          |                   |                  | Rev | Descriptions | Date : | Checked by : | Page : 2 / 12                                                                                                                           |

# Parts symbol

| Item | Device                                                                              | Symbol                                                                              | Description                                                                          | Item | Device                                                                                | Symbol                                                                                | Description                                |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------|
| 1    |    |    | Thermal magnetic protection circuit breaker                                          | 9    |    |    | Push button start                          |
| 2    |    |    | Power circuit breaker / motor overload switch with switch mechanism and without line | 10   |    |    | Push button stop                           |
| 3    |    |    | Miniature circuit breaker / 3p                                                       | 11   |    |    | EMERGENCY STOP                             |
| 4    |    |    | Miniature circuit breaker / 1p                                                       | 12   |    |    | Rotary switch 2 POSITION                   |
| 5    |    |    | OVER LOAD RELAY (BIMETAL)                                                            | 13   |    |    | Rotary switch 3 POSITION                   |
| 6    |   |   | CARRIER FUSE / 1p                                                                    | 14   |   |   | LIMIT SWITCH / FOR PANEL DOOR LIMIT SWITCH |
| 7    |  |  | CARRIER FUSE / 3p                                                                    | 15   |  |  | Current transformer                        |
| 8    |  |  | FUSE LOAD BREAKER SWITCH                                                             | 16   |  |  | TERMINAL                                   |

Project name :

FOOD INDUSTRIES

Electrical panel input :

Up ☐ Down ☒

Electrical panel output :

Up ☐ Down ☒

Project description :

ALBORZ POWDER ATLAS

Position of electrical panel : Standing ☐ Wall ☒

Drawing by : AMIR.M.ABEDI

Manufacturer :

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Client :

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Panel name :

O3NLP01

Document number :

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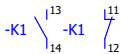
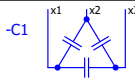
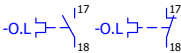
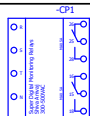
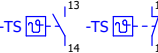
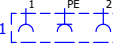
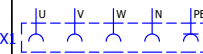
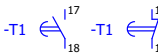
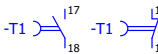
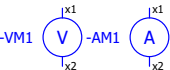
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# Parts symbol

| Item | Device                                                                              | Symbol                                                                              | Description                         | Item | Device                                                                                | Symbol                                                                                | Description                                                        |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 1    |    |    | NO & NC CONTACT                     | 9    |    |    | CAPACITOR CONECTION                                                |
| 2    |    |    | NO & NC CONTACT FOR OVER LOAD RELAY | 10   |    |    | PHASE CONTROL<br>Multifunction control relay<br>For 3-phase supply |
| 3    |    |    | NC & NO CONTACT FOR THERMOSTAT      | 11   |    |    | Single-phase socket with a PE                                      |
| 4    |    |    | TIMER COIL ON DELAY                 | 12   |    |    | 3-phase socket with a L1+L2+L3+N+PE                                |
| 5    |    |    | TIMER COIL OFF DELAY                | 13   |    |    | Moonlight Lighting Panel                                           |
| 6    |   |   | NO & NC CONTACT FOR TImER ON DELAY  | 14   |   |   | SIGNAL LAMP                                                        |
| 7    |  |  | NO & NC CONTACT FOR TImER OFF DELAY | 15   |  |  | FAN                                                                |
| 8    |  |  | Contactor Coil Relay Coil 230V AC   | 16   |  |  | Analog voltmeter and analog ammeter                                |

Project name :

FOOD INDUSTRIES

Project description :

ALBORZ POWDER ATLAS

Electrical panel input :

Up ☐ Down ☒

Electrical panel output :

Up ☐ Down ☒

Position of electrical panel : Standing ☐ Wall ☒

Drawing by : AMIR.M.ABEDI

Manufacturer :

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Client :

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Panel name :

O3NLP01

Document number :

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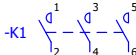
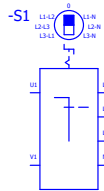
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| 05  | ***          | ***    | ***          |
| 04  | ***          | ***    | ***          |
| 03  | ***          | ***    | ***          |
| 02  | ***          | ***    | ***          |
| 01  | ***          | ***    | ***          |
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# Parts symbol

| Item | Device                                                                            | Symbol                                                                             | Description         | Item | Device | Symbol | Description |
|------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------|------|--------|--------|-------------|
| 1    |  |   | Contactor           | 8    | ***    | ***    | ***         |
| 2    |  |   | Impulse relay       | 9    | ***    | ***    | ***         |
| 3    |  |   | UNDER VOLTAGE RELAY | 10   | ***    | ***    | ***         |
| 4    |  |   | SHUNT TRIP RELAY    | 11   | ***    | ***    | ***         |
| 5    |  |  | Volt switch         | 12   | ***    | ***    | ***         |
|      |                                                                                   |                                                                                    |                     | 13   | ***    | ***    | ***         |
| 6    | ***                                                                               | ***                                                                                | ***                 | 14   | ***    | ***    | ***         |
| 7    | ***                                                                               | ***                                                                                | ***                 | 15   | ***    | ***    | ***         |

Project name :

FOOD INDUSTRIES

Project description :

ALBORZ POWDER ATLAS

Electrical panel input :

Up ☐ Down ☒

Electrical panel output :

Up ☐ Down ☒

Position of electrical panel : Standing ☐ Wall ☒

Drawing by : AMIR.M.ABEDI

Manufacturer :

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# Technical information of the panel

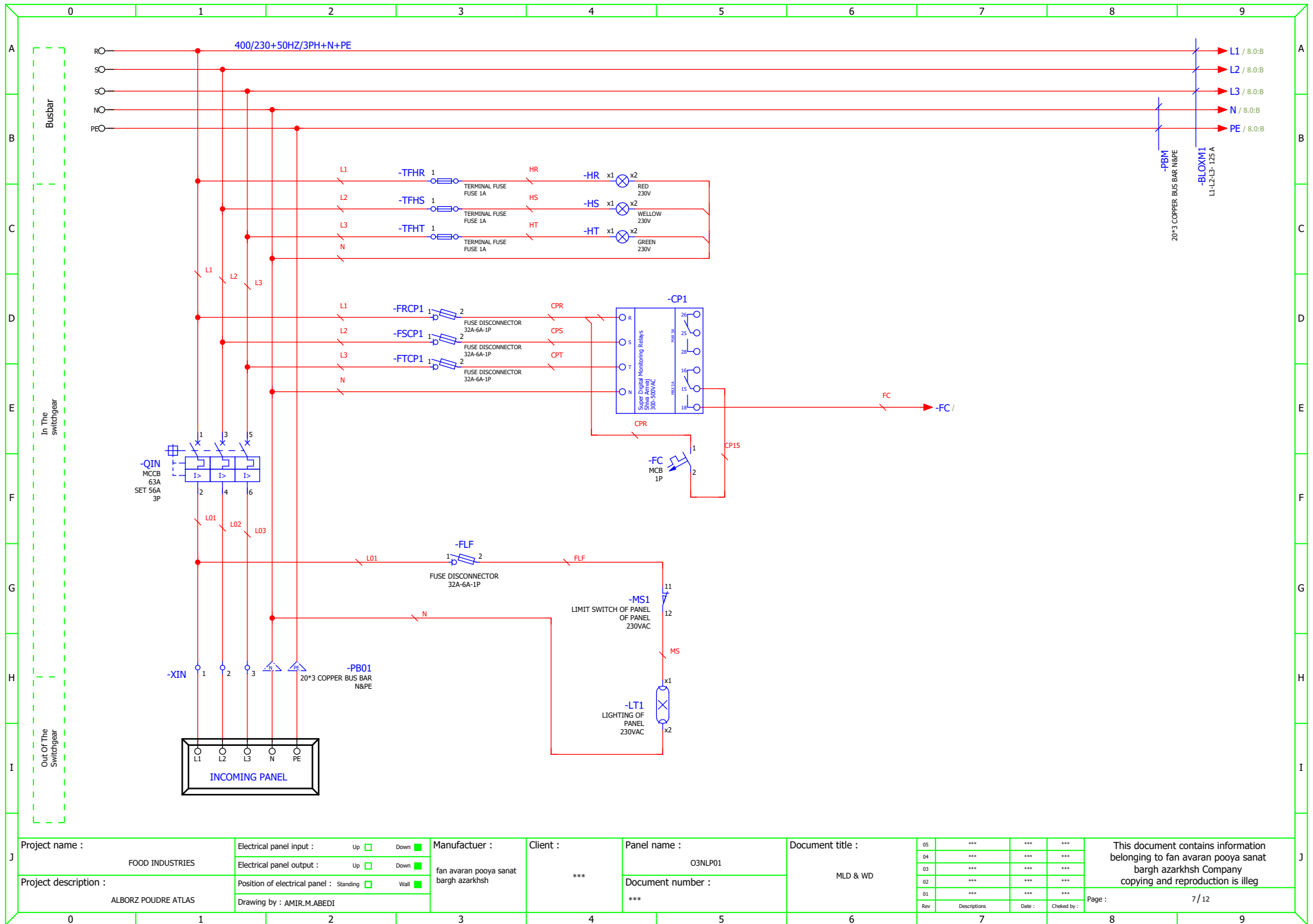
| Power Wire Color |                                                                                   |              | Control Wire Color |                                                                                     |       |
|------------------|-----------------------------------------------------------------------------------|--------------|--------------------|-------------------------------------------------------------------------------------|-------|
| PH               | Wire                                                                              | Color        | PH                 | Wire                                                                                | Color |
| L1               |  | Red          | 230VAC             |  | Red   |
| L2               |  | Yellow       | N                  |  | Blue  |
| L3               |  | Black        | ***                | ***                                                                                 | ***   |
| N                |  | Blue         | ***                | ***                                                                                 | ***   |
| PE               |  | Yellow-Green | ***                | ***                                                                                 | ***   |

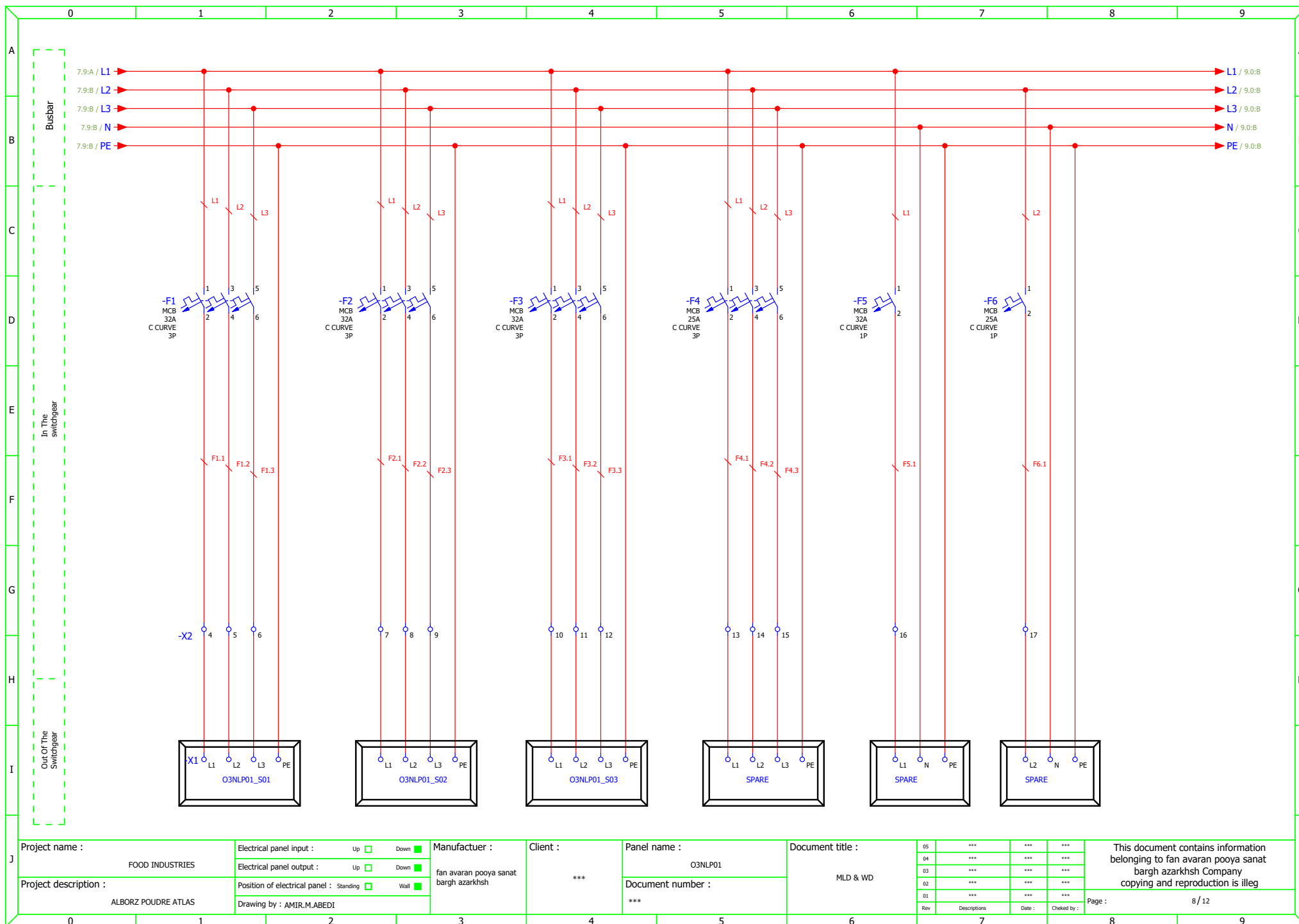
| Electrical characteristics  |             |
|-----------------------------|-------------|
| DP-01                       |             |
| Rated operation voltage (V) | 380-400V/AC |
| Ferquency (HZ)              | 50HZ        |
| Number of phases            | 3PH+PE+N    |

| Busbar specification |     |
|----------------------|-----|
| DP-01                |     |
| ***                  | *** |
| ***                  | *** |
| ***                  | *** |
| ***                  | *** |

| Color Code Busbar |              |
|-------------------|--------------|
| L1                | Red          |
| L2                | Yellow       |
| L3                | Black        |
| N                 | Blue         |
| PE                | Yellow-Green |

|                                                  |                                                                                                              |                                                               |                     |                             |                                  |                              |              |        |        |                                                                                                                                         |     |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------|-----------------------------|----------------------------------|------------------------------|--------------|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------------|-----|
| Project name :<br><br>FOOD INDUSTRIES            | Electrical panel input :<br>Up <input type="checkbox"/> Down <input checked="" type="checkbox"/>             | Manufacturer :<br><br>fan avaran pooya sanat<br>bargh azarksh | Client :<br><br>*** | Panel name :<br><br>O3NLP01 | Document title :<br><br>MLD & WD | 05                           | ***          | ***    | ***    | This document contains information<br>belonging to fan avaran pooya sanat<br>bargh azarksh Company<br>copying and reproduction is illeg |     |
|                                                  | Electrical panel output :<br>Up <input type="checkbox"/> Down <input checked="" type="checkbox"/>            |                                                               |                     |                             |                                  |                              |              | 04     | ***    |                                                                                                                                         | *** |
| Project description :<br><br>ALBORZ POUDRE ATLAS | Position of electrical panel :<br>Standing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> |                                                               |                     | Drawing by : AMIR.M.ABEDI   |                                  | Document number :<br><br>*** | 03           | ***    | ***    |                                                                                                                                         | *** |
|                                                  |                                                                                                              |                                                               |                     |                             |                                  |                              | 02           | ***    | ***    |                                                                                                                                         | *** |
|                                                  |                                                                                                              | 01                                                            | ***                 |                             | ***                              |                              | ***          |        |        |                                                                                                                                         |     |
|                                                  |                                                                                                              |                                                               |                     | Rev                         | Descriptions                     | Date :                       | Checked by : | Page : | 6 / 12 |                                                                                                                                         |     |





|                       |                     |                                |                                                                            |
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|                       |                     | Electrical panel output :      | Up <input type="checkbox"/> Down <input checked="" type="checkbox"/>       |
| Project description : | ALBORZ POWDRE ATLAS | Position of electrical panel : | Standing <input type="checkbox"/> Wall <input checked="" type="checkbox"/> |
|                       |                     | Drawing by :                   | AMIR.M.ABEDI                                                               |

Manufacturer :  
fan avaran pooya sanat  
bargh azarkhsh

Client :  
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|                   |         |
|-------------------|---------|
| Panel name :      | O3NLP01 |
| Document number : | ***     |

Document title :  
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|-----|--------------|--------|--------------|
| 05  | ***          | ***    | ***          |
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