

# ALMARLS 150

## Diesel Generating Sets



### GENERATORIAUS TECHNINIS PASAS



SERIJOS NR.: 74320/24

#### Prime galia

Generatorius gali dirbti kaip pagrindinis maitinimo šaltinis, dirbant ne didesne kaip 70% vidutinei apkrovai. Leidžiama 10% perkrova.

#### Stand-by galia

Generatorius skirtas dirbti kaip atsarginis maitinimo šaltinis, tiekiantis maitinimą ribotą laiką. Neleidžiama perkrova.

#### Generatorius

|             |     | Stand-by |
|-------------|-----|----------|
| Galia (kVA) | kVA | 150      |
| Galia kW    | kW  | 120      |

|                       |                   |
|-----------------------|-------------------|
| Generaoriaus modelis: | ALMAR 150         |
| Variklio modelis:     | ALMAR / AYD4TS48E |
| Degalų tipas:         | Dieselinai        |
| Dažnis:               | 50 Hz             |
| Galios faktorius:     | $\cos \Phi = 0.8$ |
| Įtampa:               | 400/231 V         |

| Matmenys          |    | Generatorius su<br>gaubtu |
|-------------------|----|---------------------------|
| Ilgis             | mm | 3200                      |
| Aukštis           | mm | 2068                      |
| Plotis            | mm | 1100                      |
| Svoris            | kg | 1650                      |
| Degalų bako talpa | lt | 270                       |

## ALMARLS 150



### Diesel Generating Sets

#### Variklis

|                                         |                     |                                 |
|-----------------------------------------|---------------------|---------------------------------|
| Variklio gamintoja:                     |                     | ALIMAR                          |
| Variklio                                |                     | AYD4TS48E                       |
| Variklio tipas:                         |                     | 4 Stroke Diesel Engine          |
| Variklio Stand-by galia:                | kWm                 | 132                             |
| Variklio Prime galia:                   | kWm                 | 120                             |
| Cilindrų išdėstymas:                    |                     | 4L                              |
| Poslinkis:                              | L                   | 4.84                            |
| Aušinimo tipas:                         |                     | Antifryzas                      |
| Skersmuo x Eiga:                        | mm                  | 108x132                         |
| Suspaudimo laipsnis:                    |                     | 17.5:1                          |
| Oro padavimo sistema:                   |                     | Turbo kompresorius, Intercooler |
| Alternatoriaus tipas:                   |                     | Elektroninis                    |
| Elektros sistema:                       | VDC                 | 12                              |
| Variklio tepalo kiekis:                 | L                   | 17                              |
| Aušinimo skysčio kiekis:                | L                   | 19                              |
| Dažnis - Greitis:                       | Hz - rpm            | 50 - 1500                       |
| Aušinimo skysčio šildytuvas             | Kiekis x W          | 1 x 1000                        |
| Akumuliatoriai:                         | Kiekis x AH         | 1 x 90                          |
| Akumuliatorių krovimo srovė             | A                   | 55                              |
| Išpurškimo sistema:                     |                     | Tiesioginė                      |
| Išmetamų dujų kiekis                    | m <sup>3</sup> /min |                                 |
| Išmetamų dujų temperatūra               | °C                  |                                 |
|                                         |                     |                                 |
| Kuro sunaudojimas dirbant 100% apkrova: | l/h                 | 29.9                            |
| Kuro sunaudojimas dirbant 75% apkrova:  | l/h                 | 21.6                            |
| Kuro sunaudojimas dirbant 50% apkrova:  | l/h                 | 14.5                            |

#### Alternatorius

|                               |     |                                  |
|-------------------------------|-----|----------------------------------|
| Fazių / Polių skaičius:       |     | 3/4+                             |
| Sužadinimo sistema:           |     | Save sužadinantis, bešepetėlinis |
| Įtampos reguliatorius:        |     | A.V.R. (Automatinis)             |
| Įtampos reguliavimo paklaida: |     | ±%1                              |
| Elektros izoliacijos klasė:   |     | H                                |
| Apsaugos klasė:               |     | IP23                             |
| Jungimo tipas:                |     | Žvaigždė                         |
| Dažnis:                       | Hz  | 50                               |
| Galios faktorius:             |     | Cos Φ = 0,8                      |
| Harmonikų iškaipymas:         |     | < % 3.5                          |
| Išėjimo įtampa:               | VAC | 231/400                          |

STOP

# alimar®

## JENERATÖR

**ALİMAR MAKİNA SAN. VE TİC. A.Ş.**

Org. San. Böl. 1. Cadde No:18 Altıeylül - Balıkesir - TÜRKİYE

Tel: +90 (266) 290 80 10 Fax: +90 (266) 246 54 68

[www.alimar.com.tr](http://www.alimar.com.tr)

Manufacturer

ALİMAR MAKİNA  
SAN. ve TİC. A.Ş.

Gen-Set No

74320/24

Gen-Set Model

ALMARLS 150

Rated Power (ESP)

150

kVA

Rated Power Factor ( $\cos \phi$ )

0.80

Maximum Site Altitude  
of Installation

1500

m

Maximum Ambient Temperature

50

°C

Rated Frequency

50

Hz

Rated Voltage

400

V

Rated Current

216

A

Mass

1650

kg

Fuel Tank Capacity

270

L

Performance Class

G3

Speed

1500

rpm

Phase - Connection

3 -  $\lambda$

CE EAC

TSE  
ISO 9001

IAS  
3150  
kW

# alimar® GENERATOR

"Enerjide Çözüm Ortağınız"  
"Your Solution Partner In Energy"

Alimar Makina San. ve Tic. A.Ş.  
Web: [www.alimar.com.tr](http://www.alimar.com.tr)  
E-mail: [info@alimar.com.tr](mailto:info@alimar.com.tr)  
Tel: 444 54 59

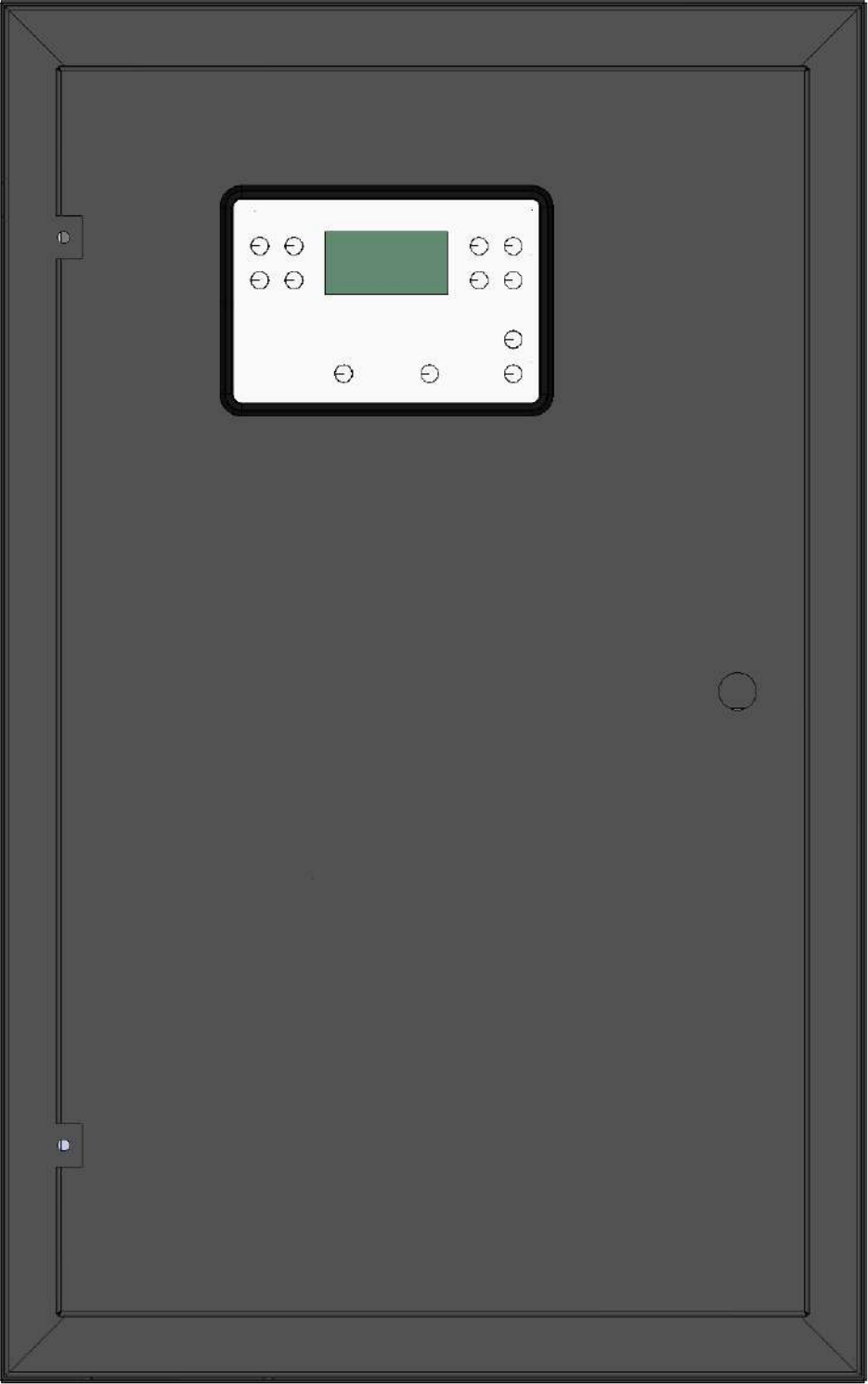
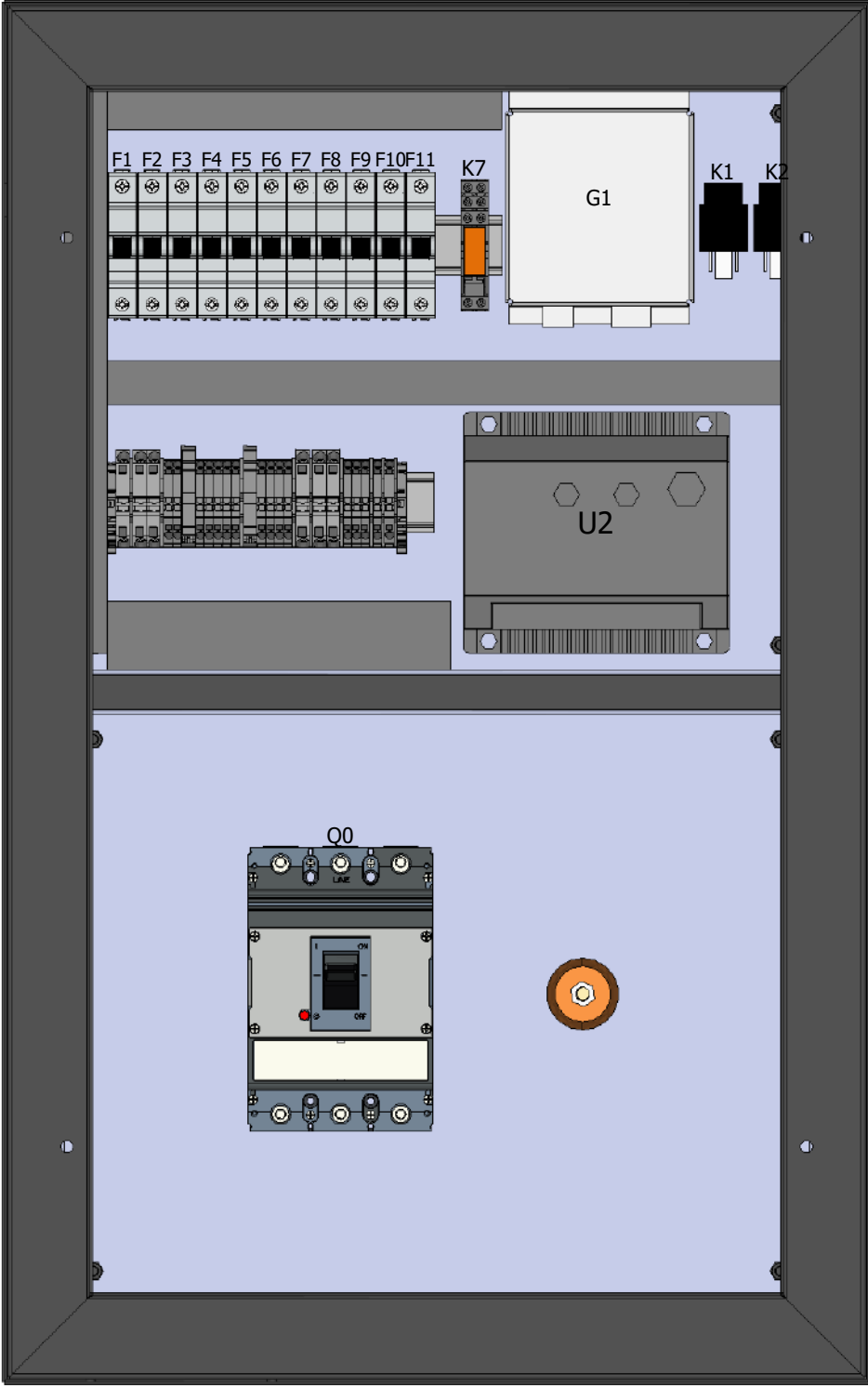
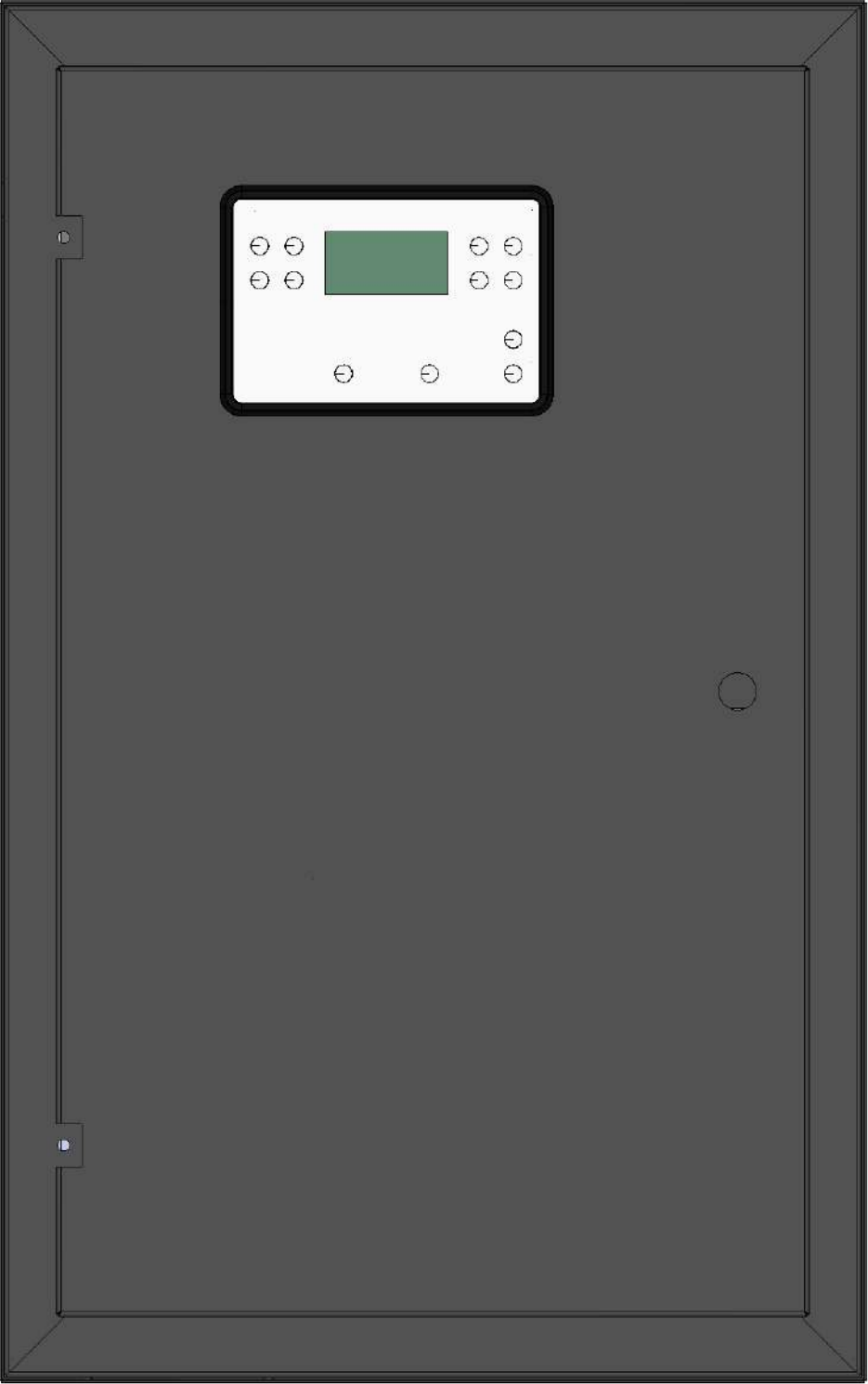
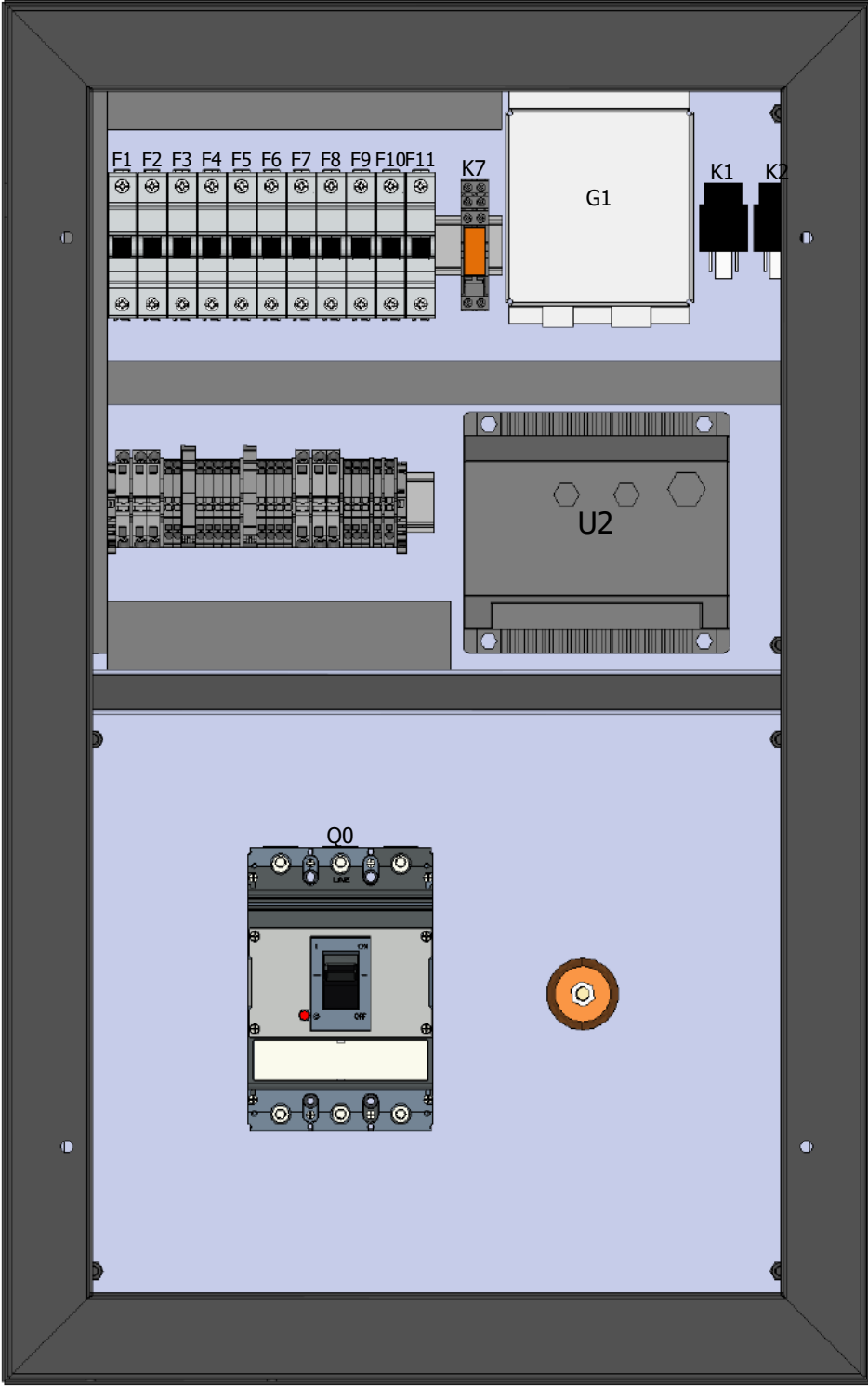
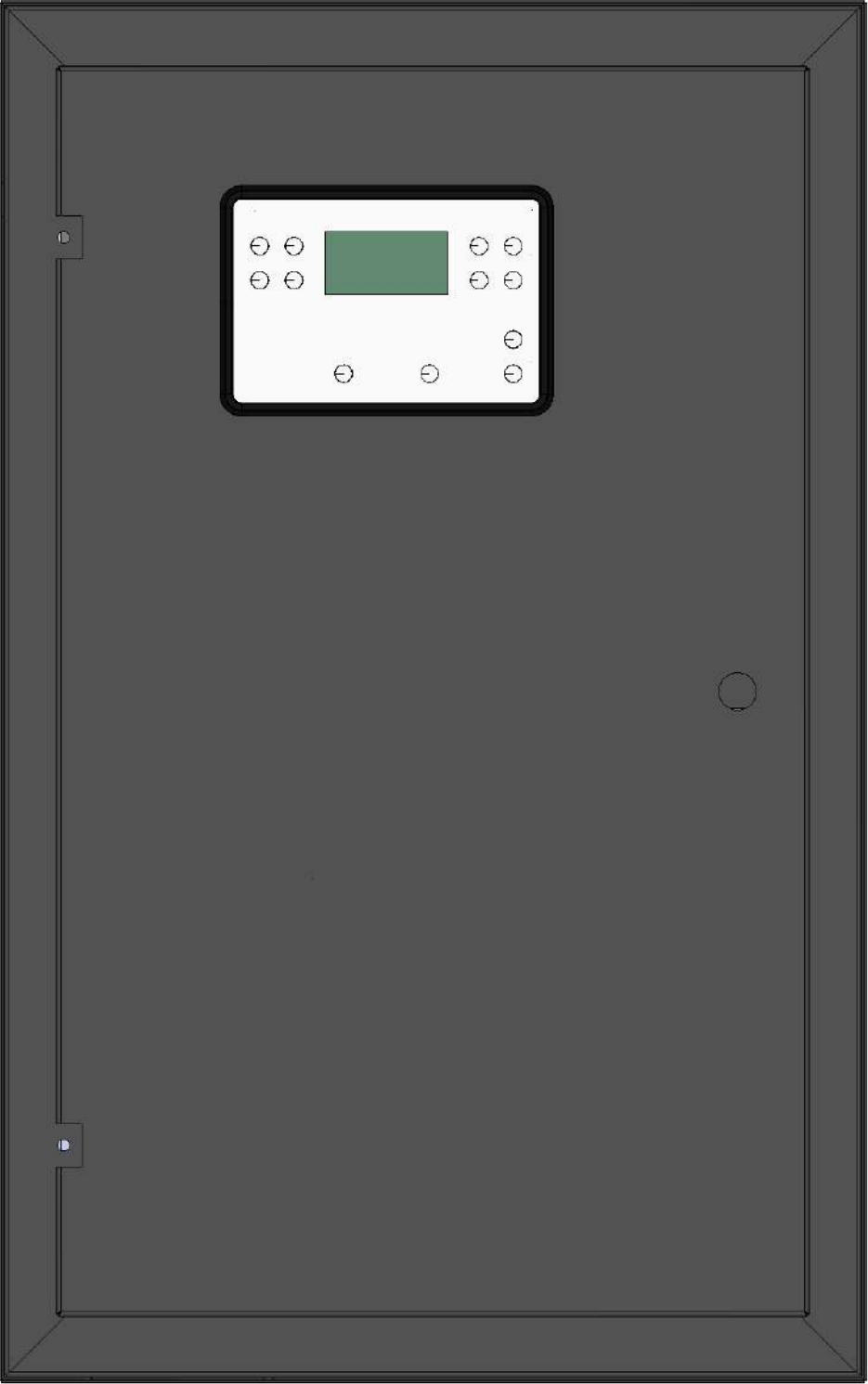
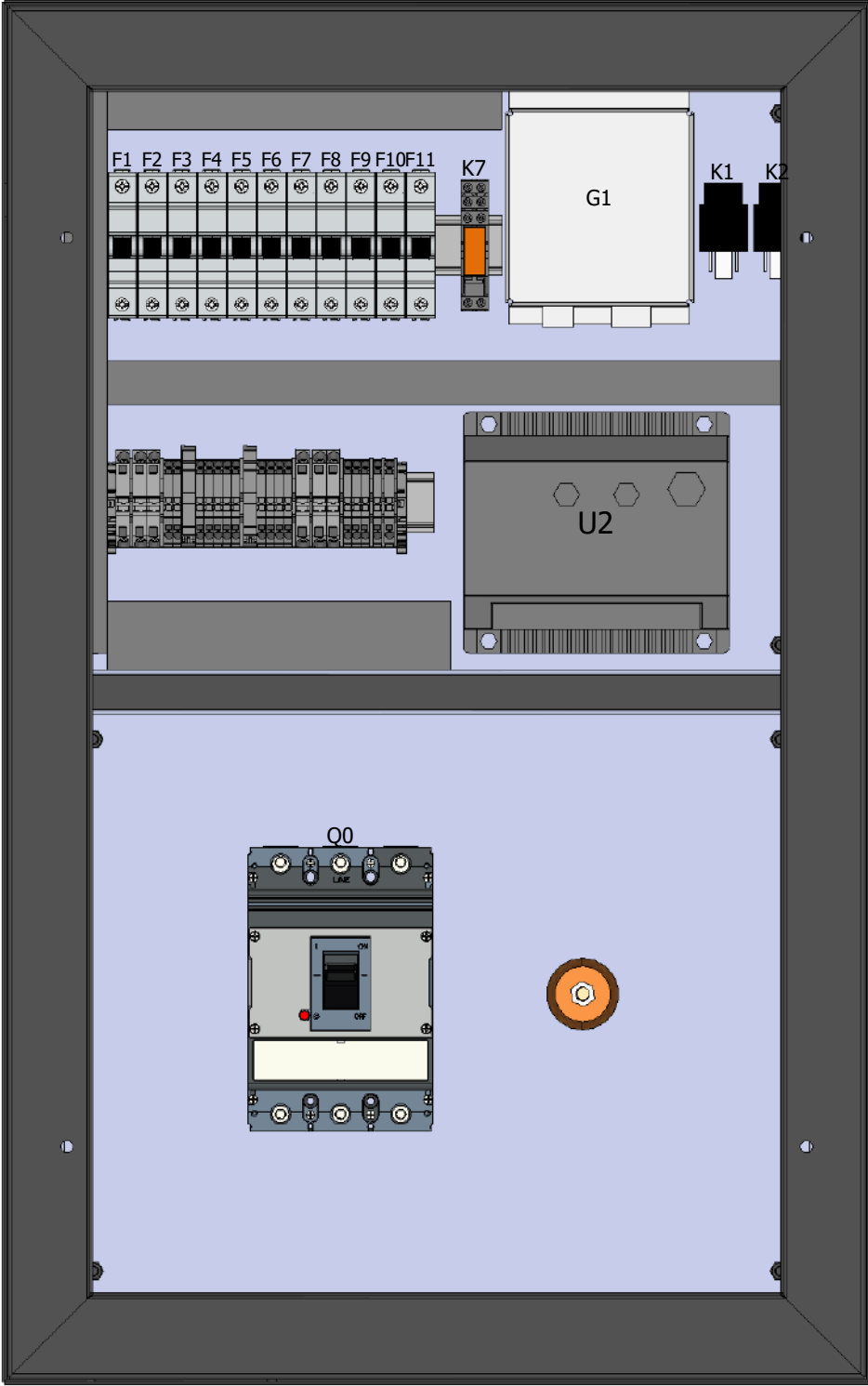
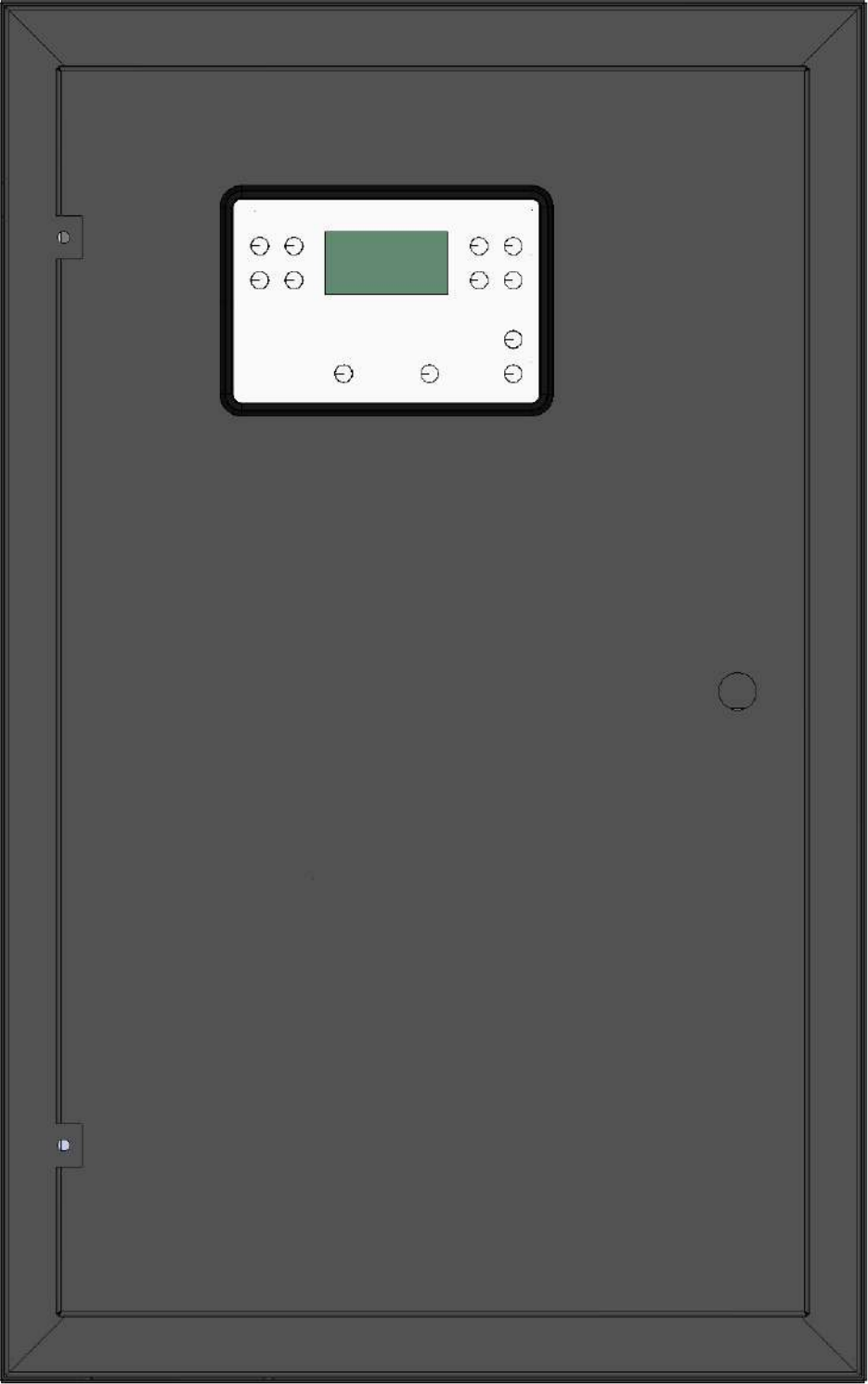
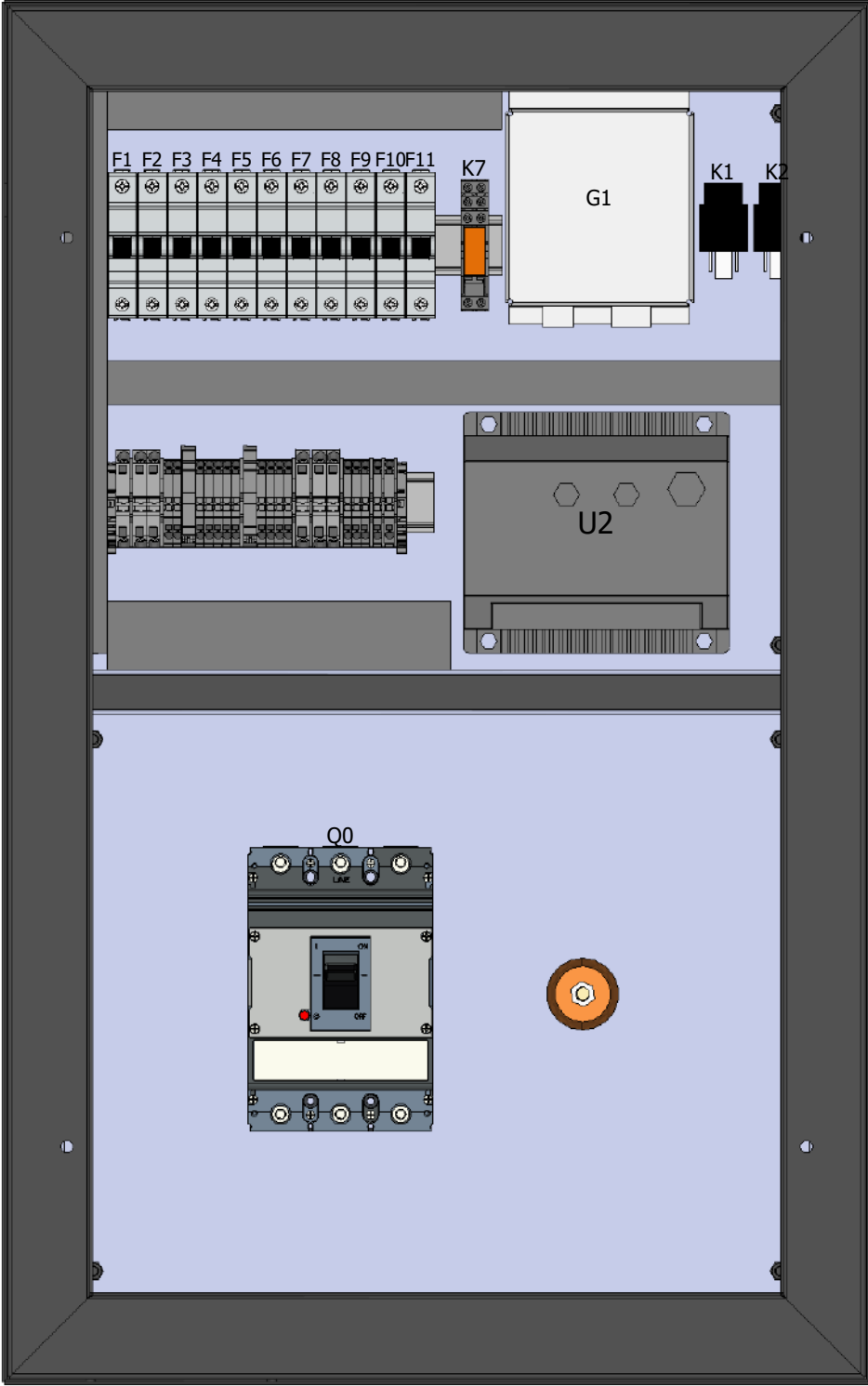
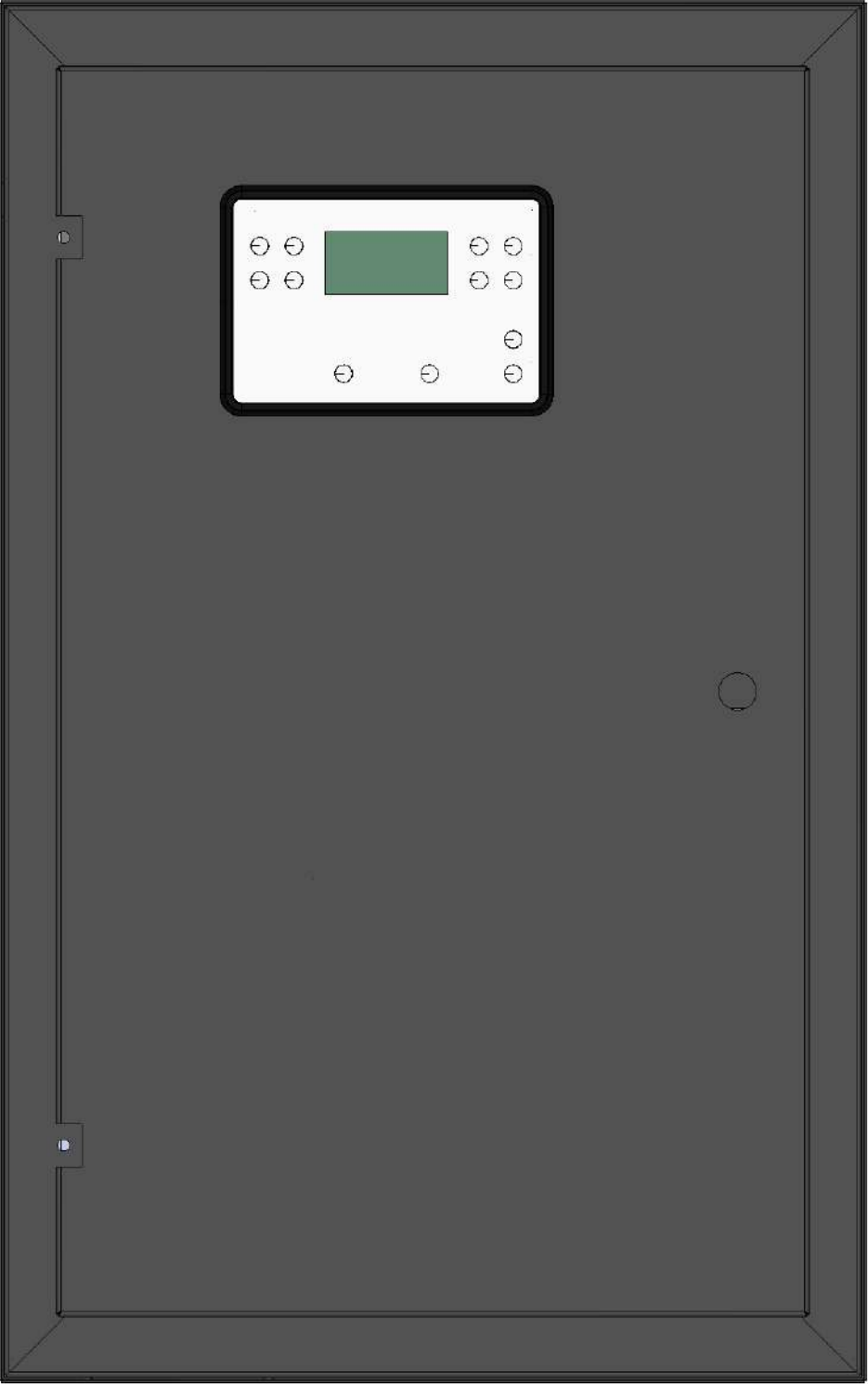
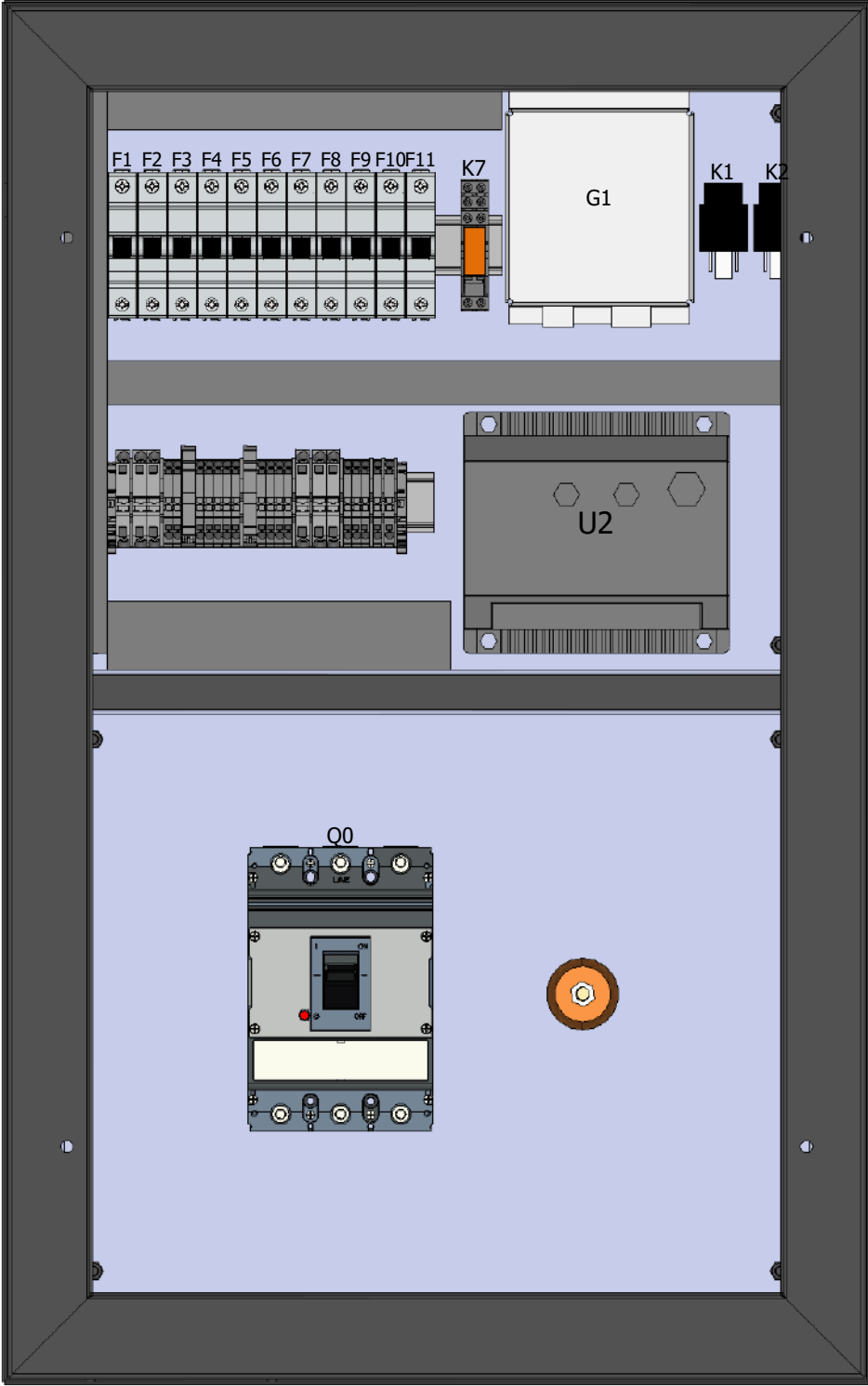
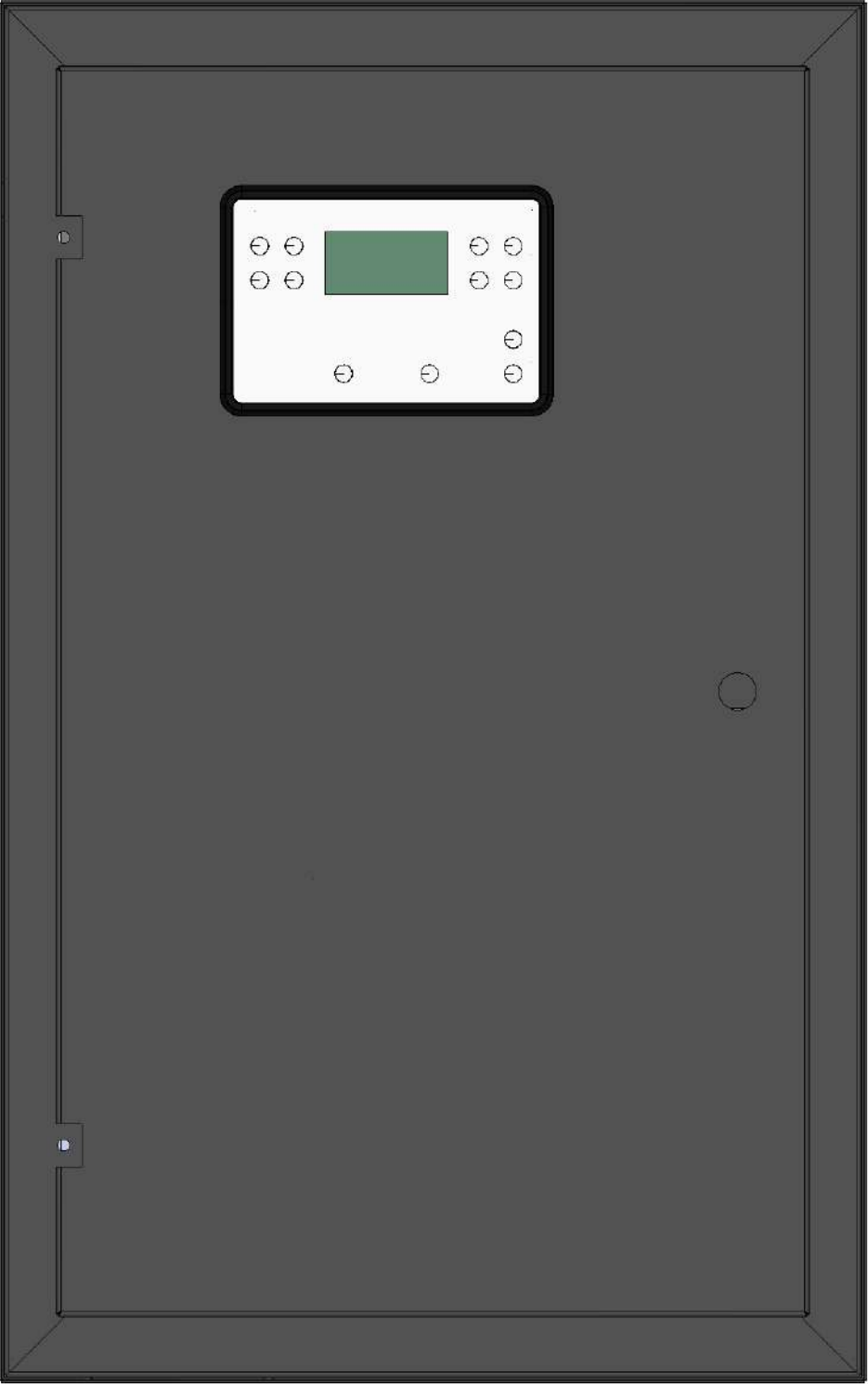
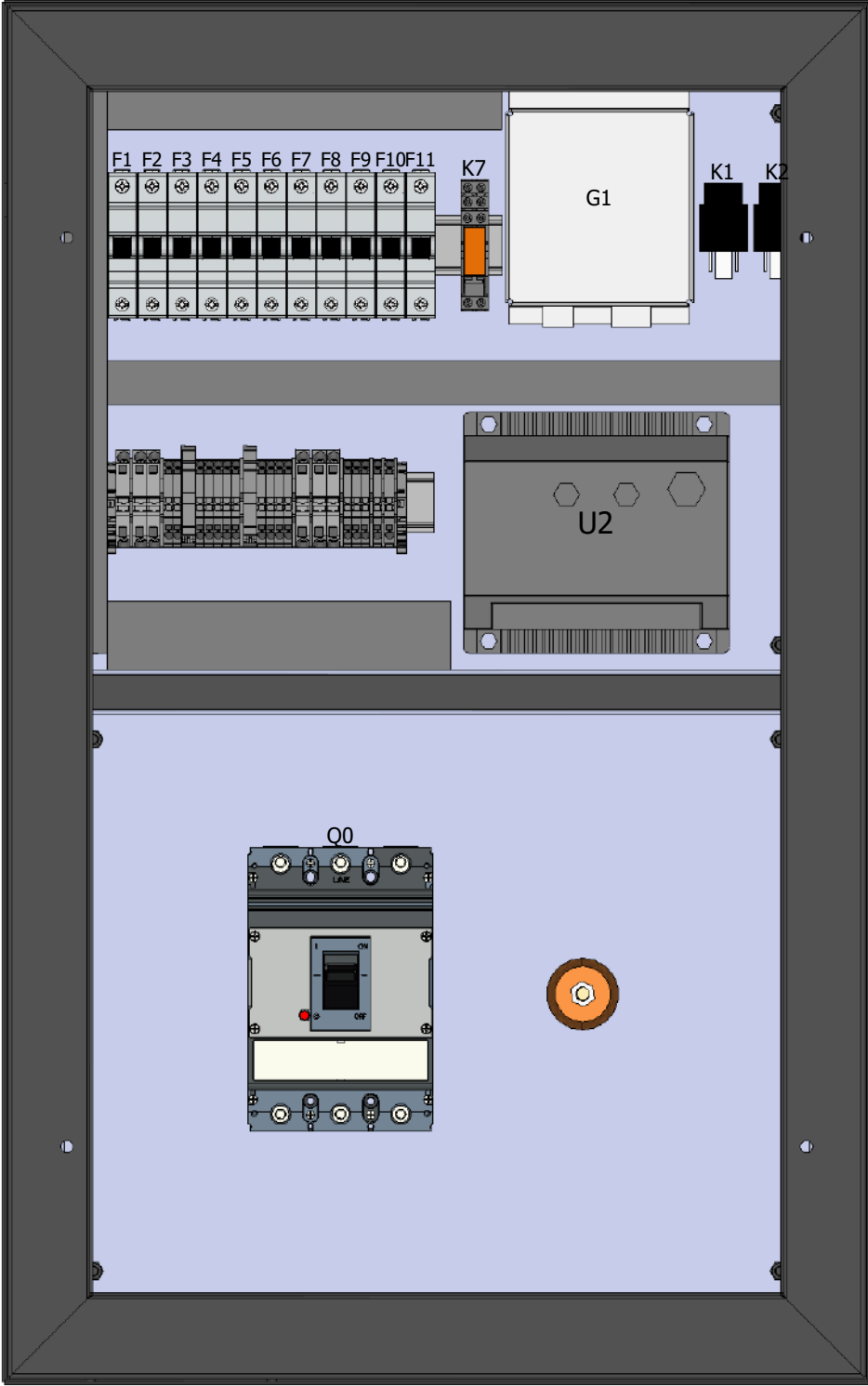
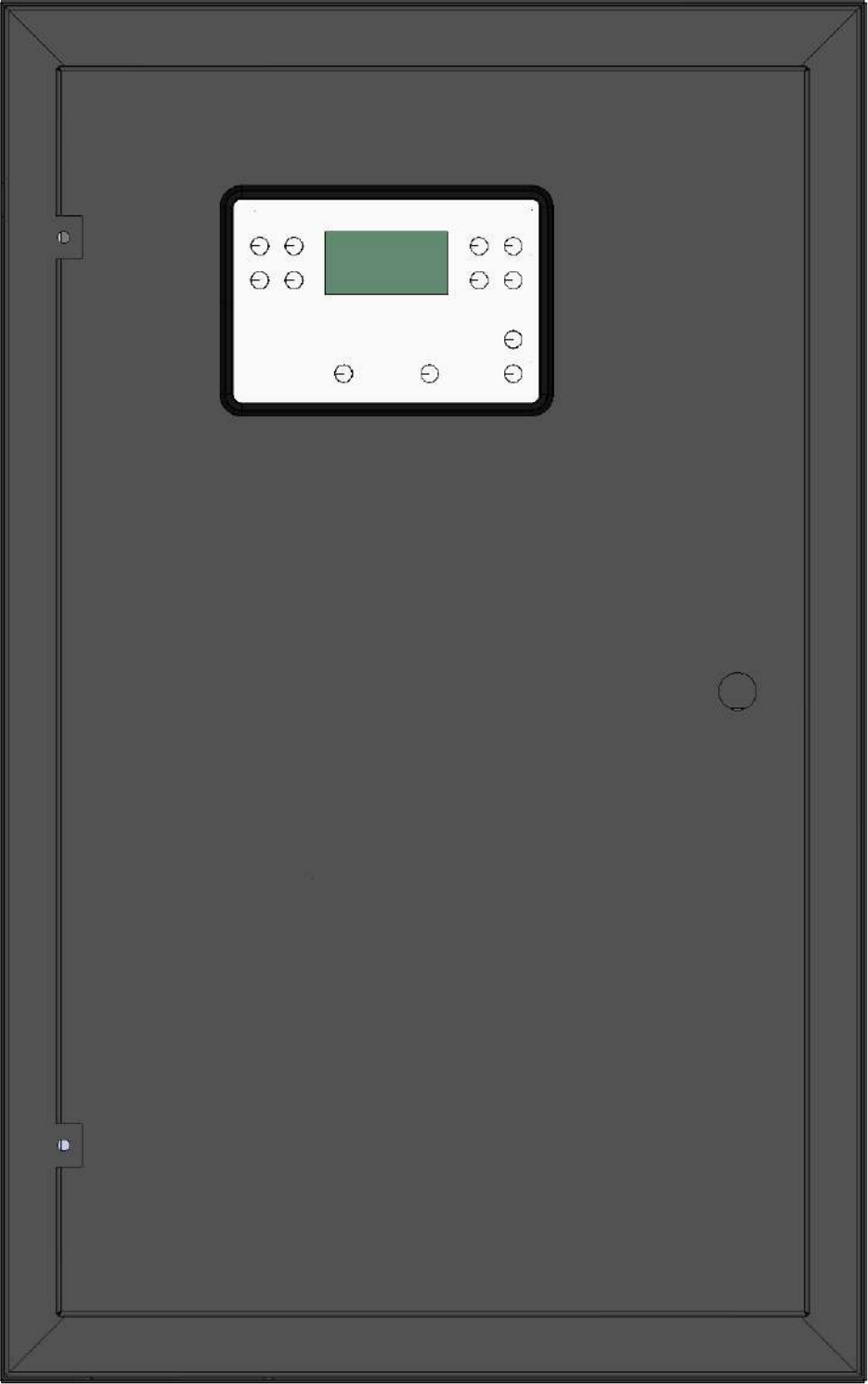
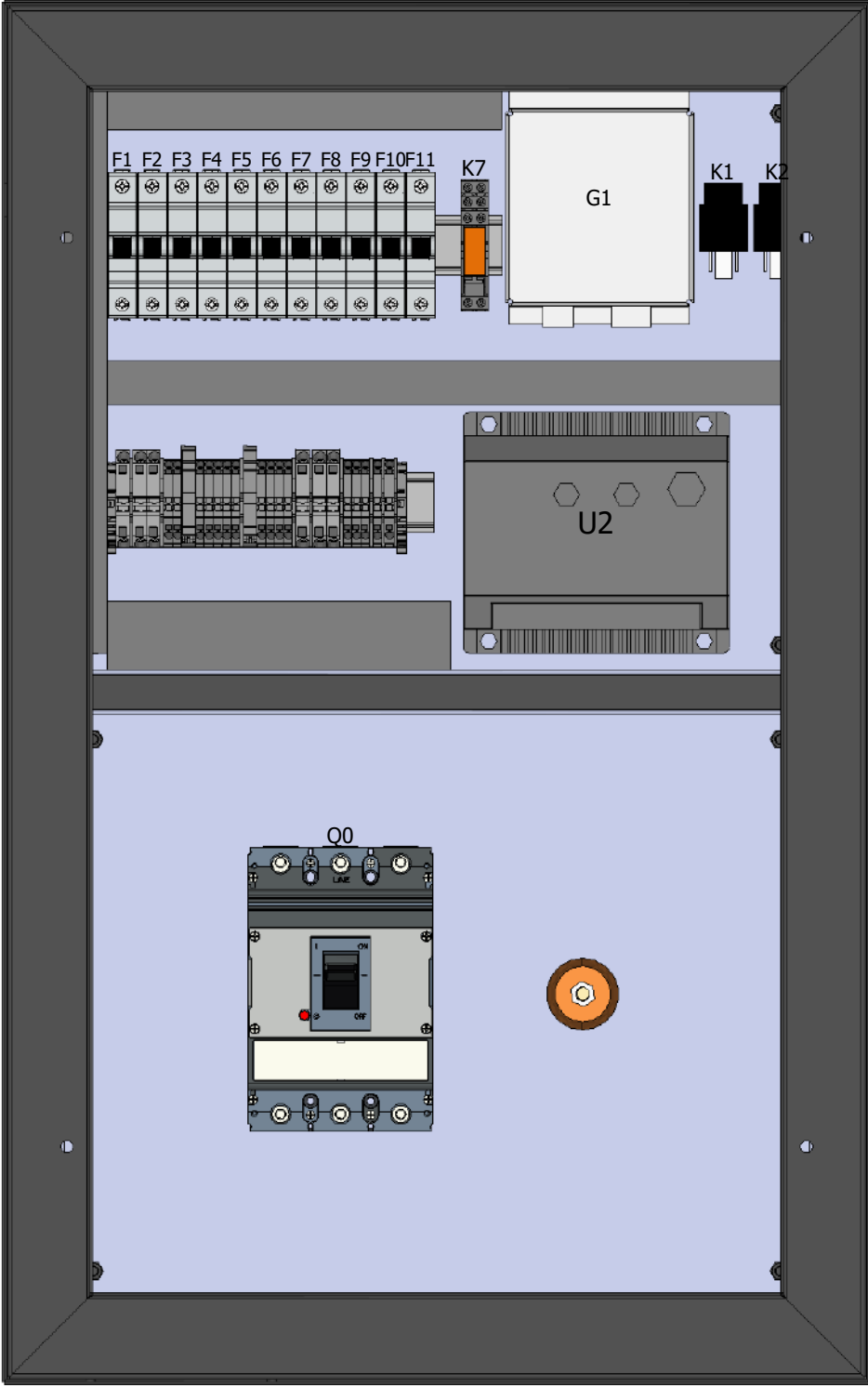
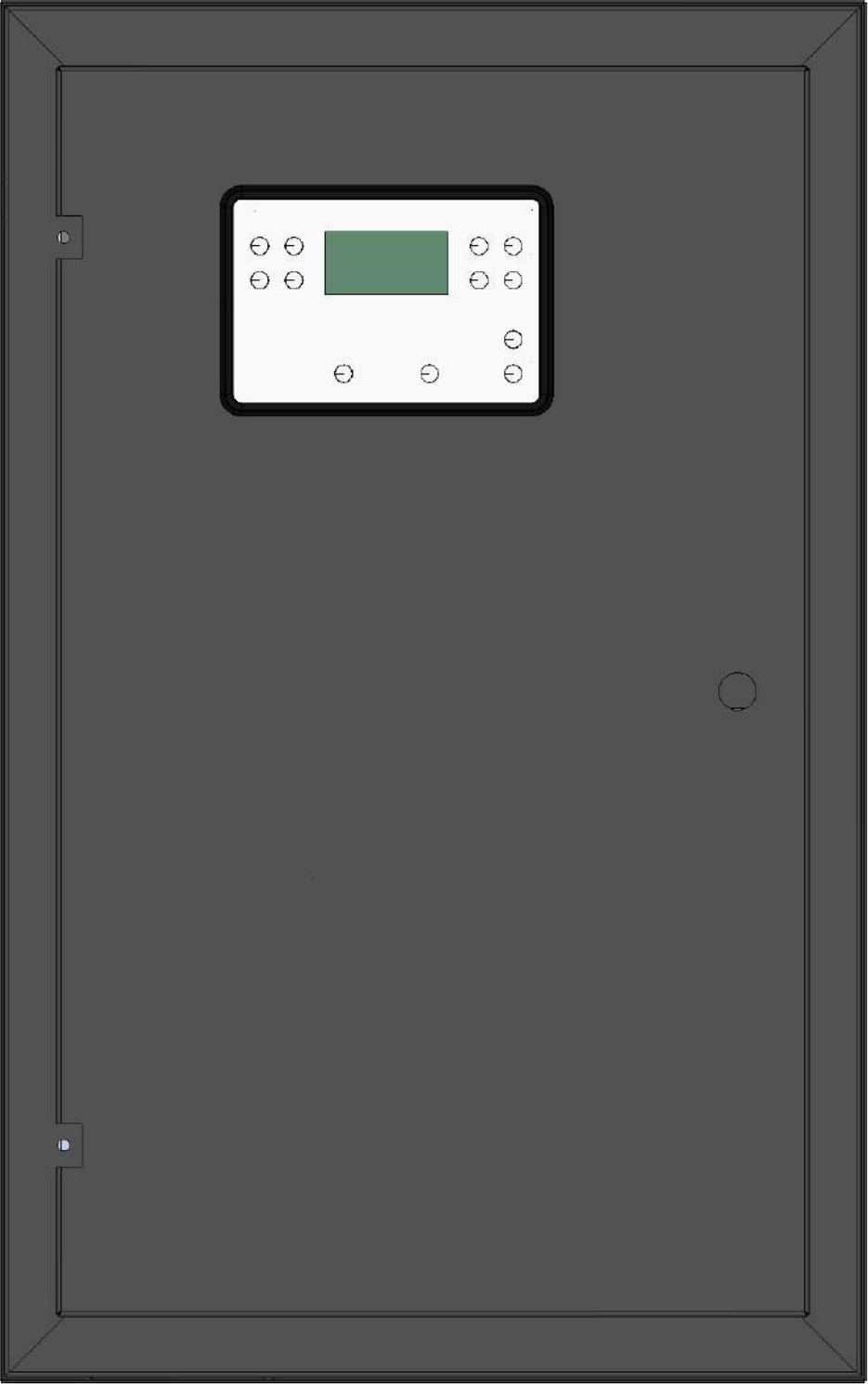
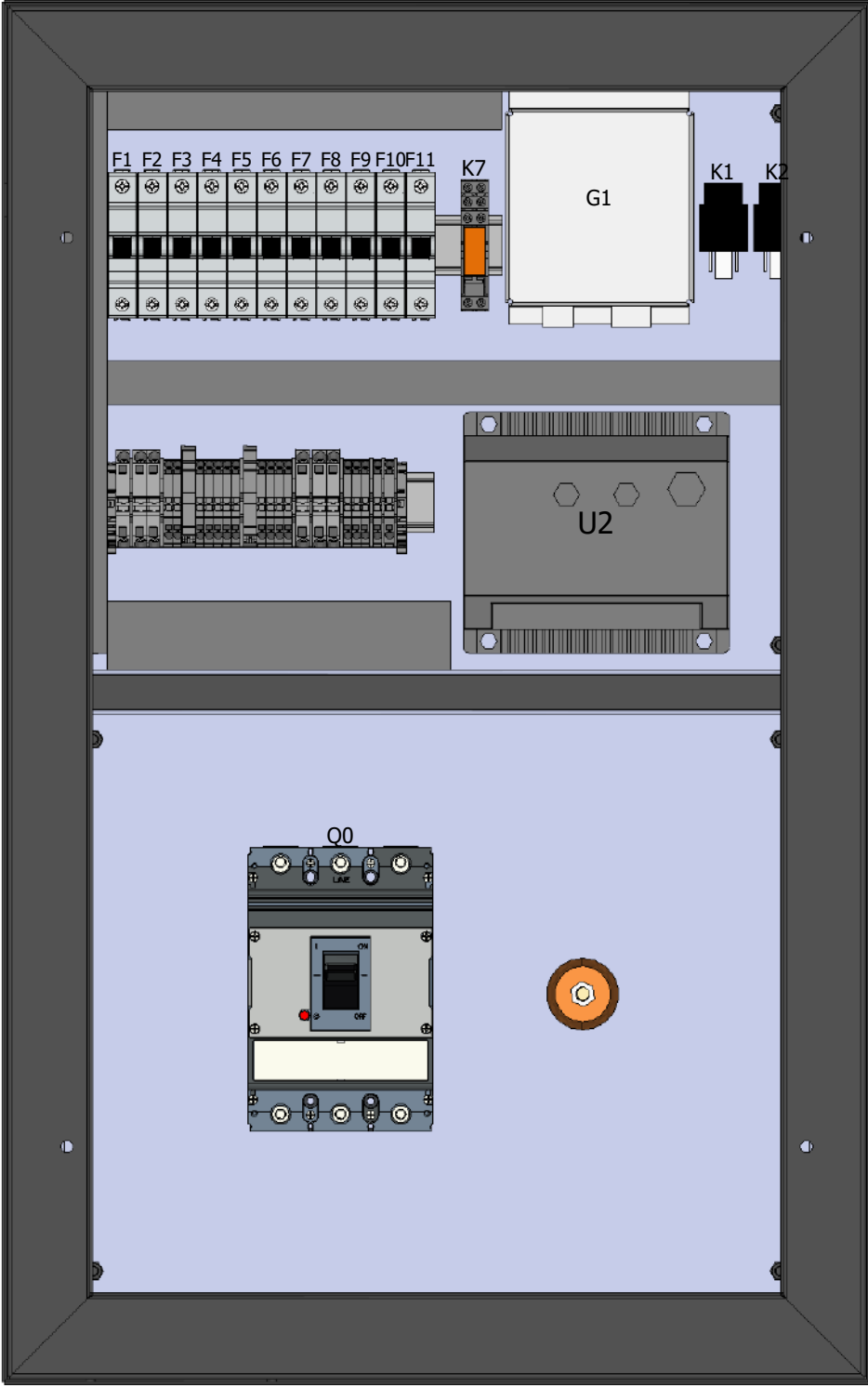
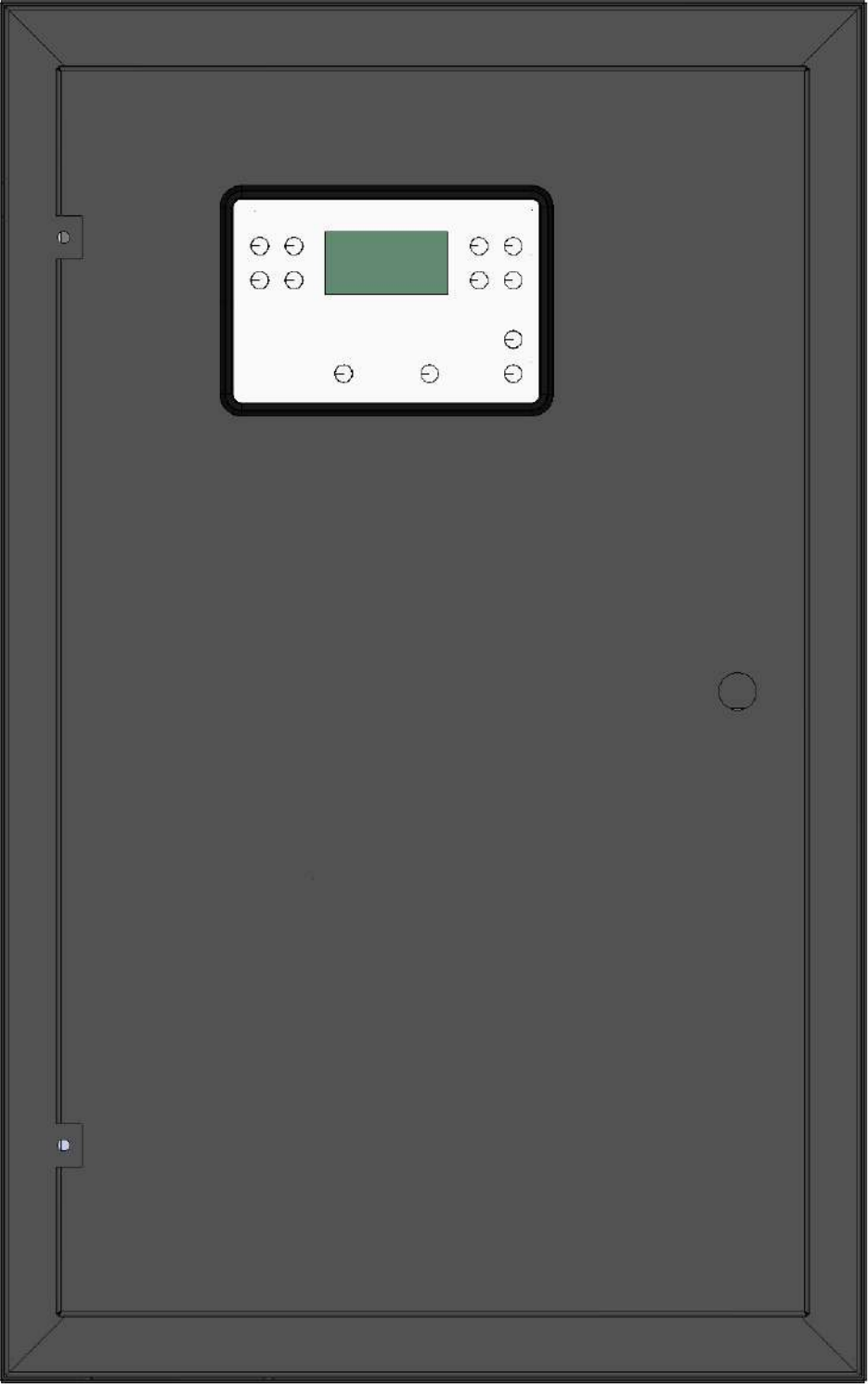
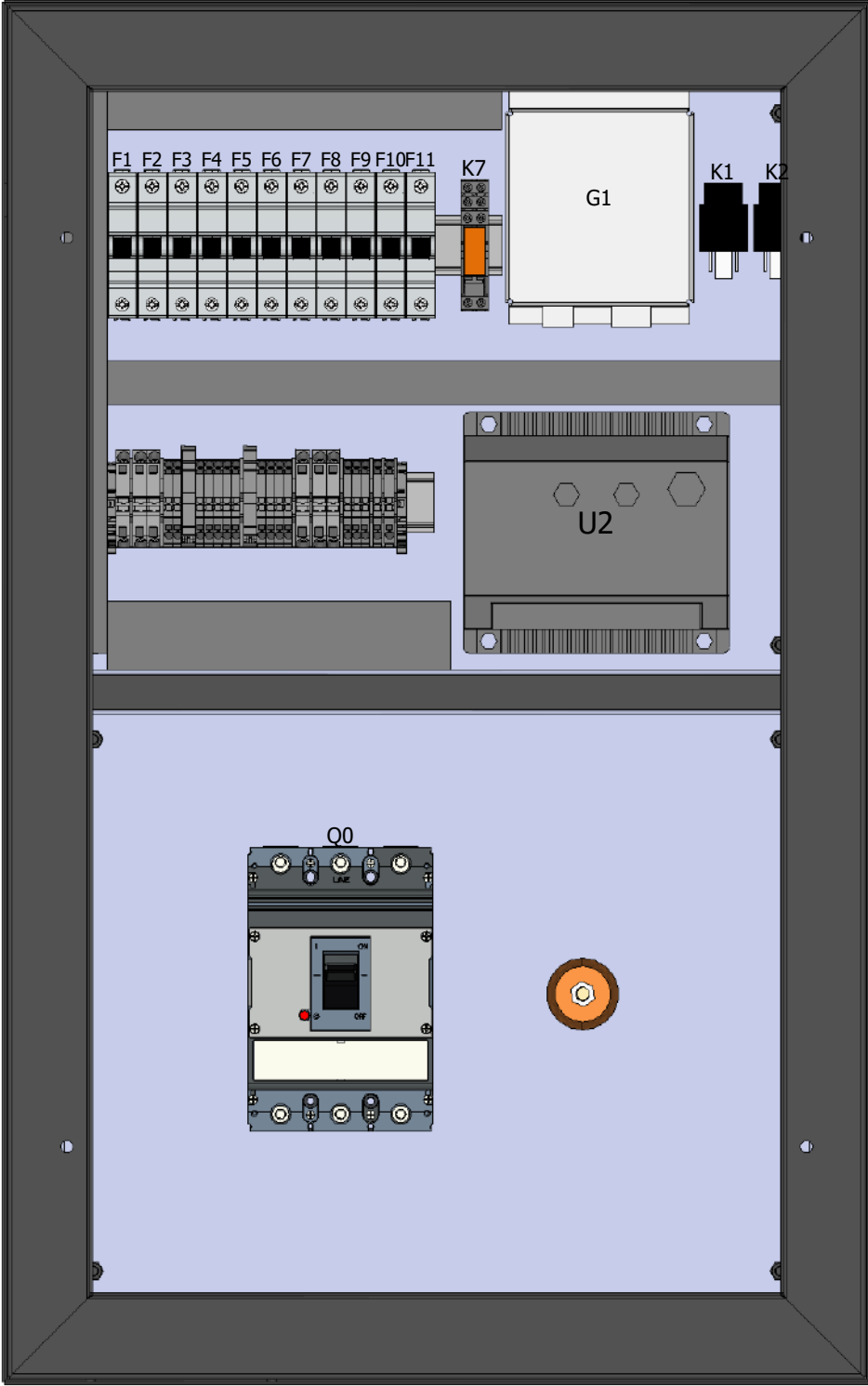
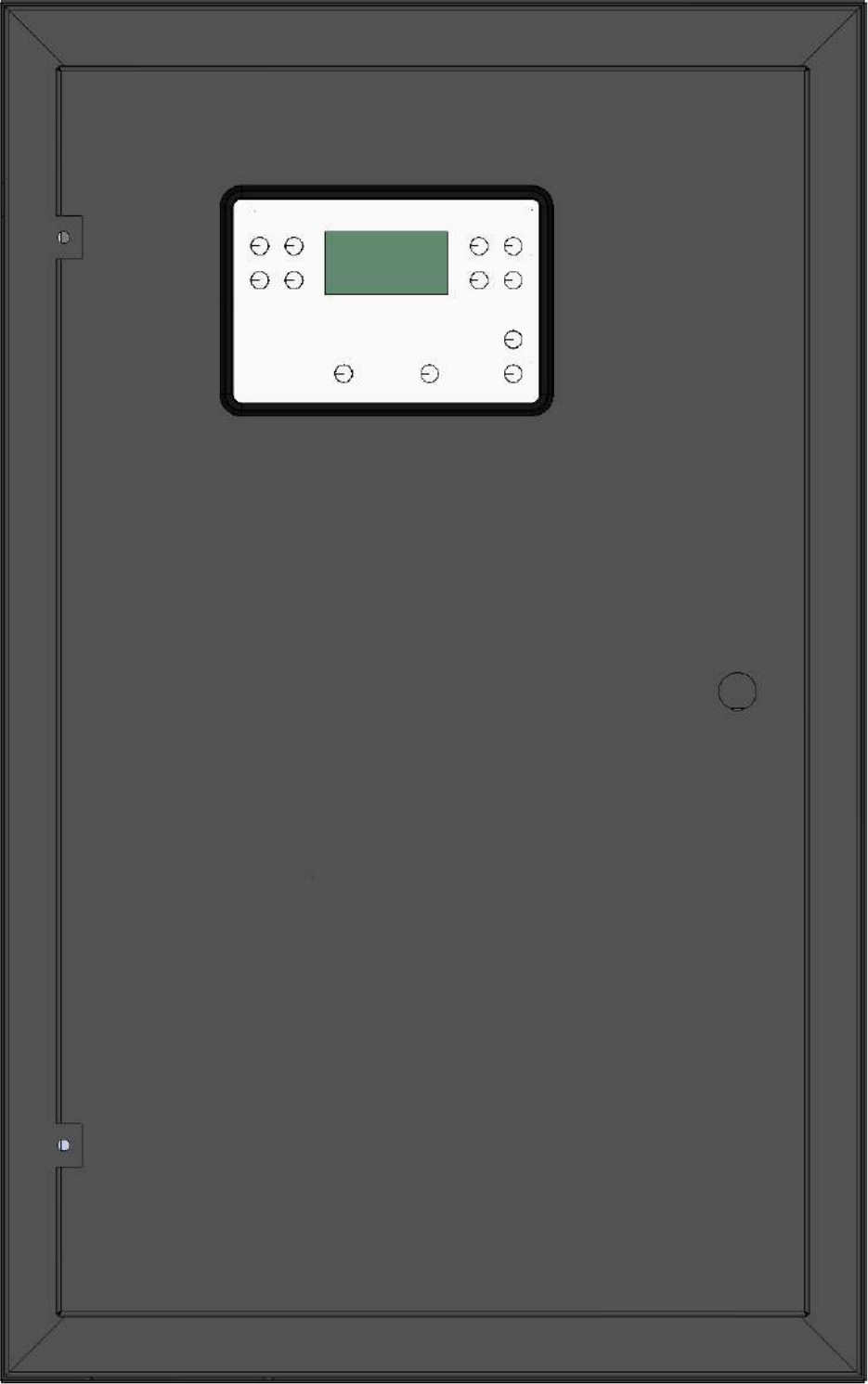
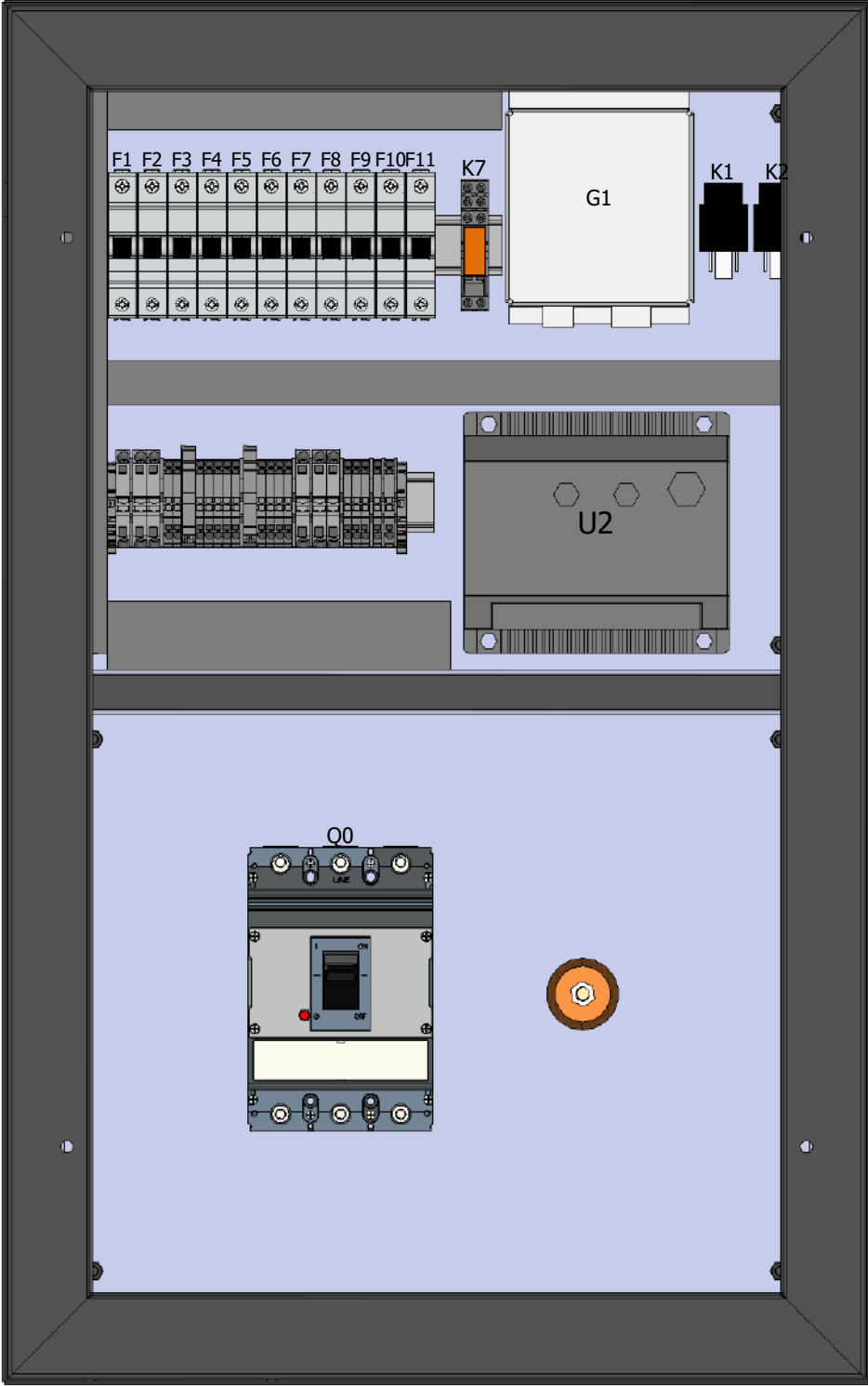
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1.Cad. No:18 Altıeylül / Balıkesir / TÜRKİYE

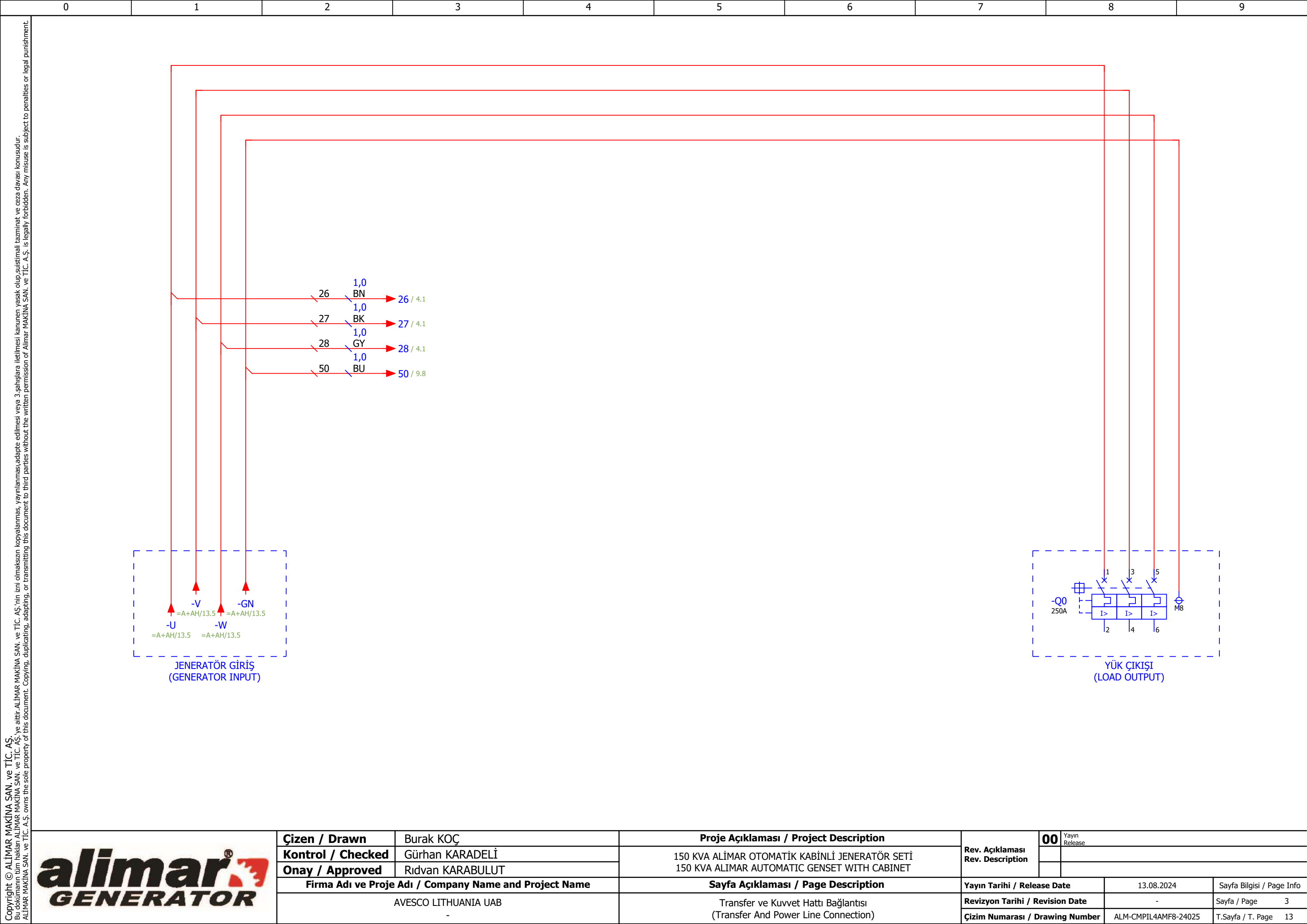
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| Firma Adı<br>Company Name               | AVESCO LITHUANIA UAB                                                                           |
| Proje Adı<br>Project Name               | -                                                                                              |
| Proje Açıklaması<br>Project Description | 150 KVA ALİMAR OTOMATİK KABİNLİ JENERATÖR SETİ<br>150 KVA ALIMAR AUTOMATIC GENSET WITH CABINET |
| Çizim Numarası<br>Drawing Number        | ALM-CMPIL4AMF8-24025                                                                           |

|                                    |                                    |                                             |                    |
|------------------------------------|------------------------------------|---------------------------------------------|--------------------|
| Transfer Sistemi<br>Tranfer System | 3P/4P OTOMATİK-UYUMLU<br>3P/4P AMF | Kontrol Panel Modeli<br>Control Panel Model | INTELILITE 4 AMF 8 |
| Nominal Gerilim<br>Rated Voltage   | 400 VAC                            | Yayın Tarihi<br>Release Date                | 13.08.2024         |
| Nominal Frekans<br>Rated Frequency | 50 Hz                              | Revizyon Tarihi<br>Revision Date            | -                  |
| Faz Sayısı<br>Phase Number         | 3 FAZ (3 PHASE)                    | Revizyon Numarası<br>Revision Number        | 00                 |



|                                                        |                      |                                                                                                |                                     |                      |                           |
|--------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------|-------------------------------------|----------------------|---------------------------|
| Çizen / Drawn                                          | Burak KOÇ            | Proje Açıklaması / Project Description                                                         | Rev. Açıklaması<br>Rev. Description | 00                   | Yayın<br>Release          |
| Kontrol / Checked                                      | Gürhan KARADELİ      | 150 KVA ALİMAR OTOMATİK KABİNLİ JENERATÖR SETİ<br>150 KVA ALIMAR AUTOMATIC GENSET WITH CABINET |                                     |                      |                           |
| Onay / Approved                                        | Rıdvan KARABULUT     |                                                                                                |                                     |                      |                           |
| Firma Adı ve Proje Adı / Company Name and Project Name |                      | Sayfa Açıklaması / Page Description                                                            | Yayın Tarihi / Release Date         | 13.08.2024           | Sayfa Bilgisi / Page Info |
|                                                        | AVESCO LITHUANIA UAB | Kapak Sayfası<br>(Cover Page)                                                                  | Revizyon Tarihi / Revision Date     | -                    | Sayfa / Page 1            |
|                                                        |                      |                                                                                                | Çizim Numarası / Drawing Number     | ALM-CMPIL4AMF8-24025 | T.Sayfa / T. Page 13      |

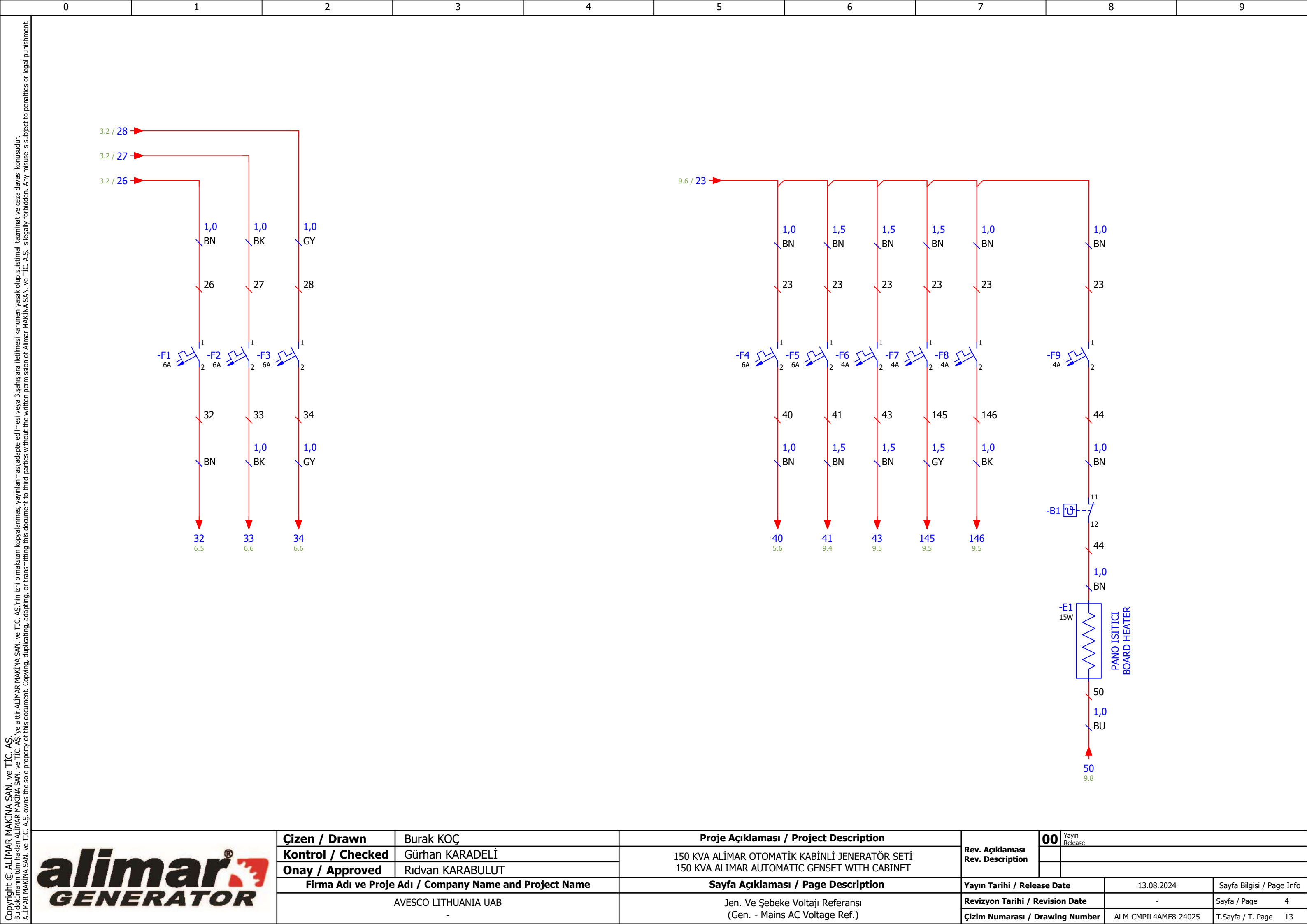
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|                                                                                                                                                                                                                                                |                                                  |                                                                      |                                                                 |                                                                                                                                                      |   |                                                     |                                                                                                                  |                                                        |                                                                               |                    |
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|                                                                                                                                                              |                                                                                                                                     | <p>Çizen / Drawn</p> <p>Kontrol / Checked</p> <p>Onay / Approved</p> | <p>Burak KOÇ</p> <p>Gürhan KARADELİ</p> <p>Rıdvan KARABULUT</p> | <p>Proje Açıklaması / Project Description</p> <p>150 KVA ALİMAR OTOMATİK KABİNLİ JENERATÖR SETİ<br/>150 KVA ALİMAR AUTOMATIC GENSET WITH CABINET</p> |   |                                                                                                                                         | <p>Rev. Açıklaması<br/>Rev. Description</p>                                                                      | <p>00</p> <p>Yayın<br/>Release</p>                     |                                                                               |                    |
| <p>Firma Adı ve Proje Adı / Company Name and Project Name</p> <p>AVESCO LITHUANIA UAB</p>                                                                                                                                                      |                                                                                                                                     |                                                                      |                                                                 | <p>Sayfa Açıklaması / Page Description</p> <p>Kumanda Panosu Görümü<br/>(Control Board View)</p>                                                     |   |                                                                                                                                         | <p>Yayın Tarihi / Release Date</p> <p>Revizyon Tarihi / Revision Date</p> <p>Çizim Numarası / Drawing Number</p> | <p>13.08.2024</p> <p>-</p> <p>ALM-CMPIL4AMF8-24025</p> | <p>Sayfa Bilgisi / Page Info</p> <p>Sayfa / Page</p> <p>T.Sayfa / T. Page</p> | <p>2</p> <p>13</p> |



|                                                        |                      |
|--------------------------------------------------------|----------------------|
| Çizen / Drawn                                          | Burak KOÇ            |
| Kontrol / Checked                                      | Gürhan KARADELİ      |
| Onay / Approved                                        | Rıdvan KARABULUT     |
| Firma Adı ve Proje Adı / Company Name and Project Name | AVESCO LITHUANIA UAB |
|                                                        | -                    |

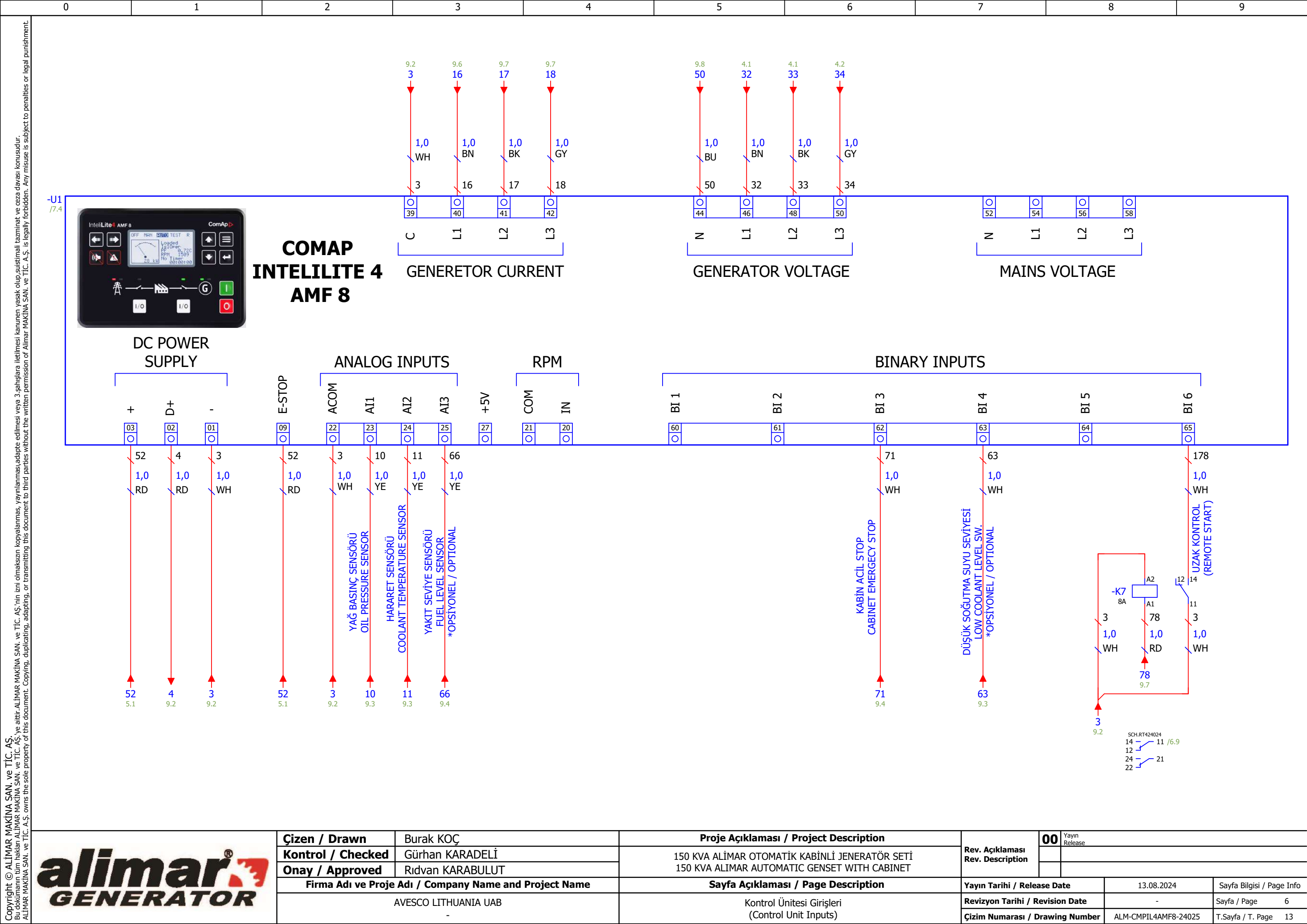
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| Proje Açıklaması / Project Description | 150 KVA ALİMAR OTOMATİK KABİNLİ JENERATÖR SETİ<br>150 KVA ALIMAR AUTOMATIC GENSET WITH CABINET |
| Sayfa Açıklaması / Page Description    | Transfer ve Kuvvet Hattı Bağlantısı<br>(Transfer And Power Line Connection)                    |

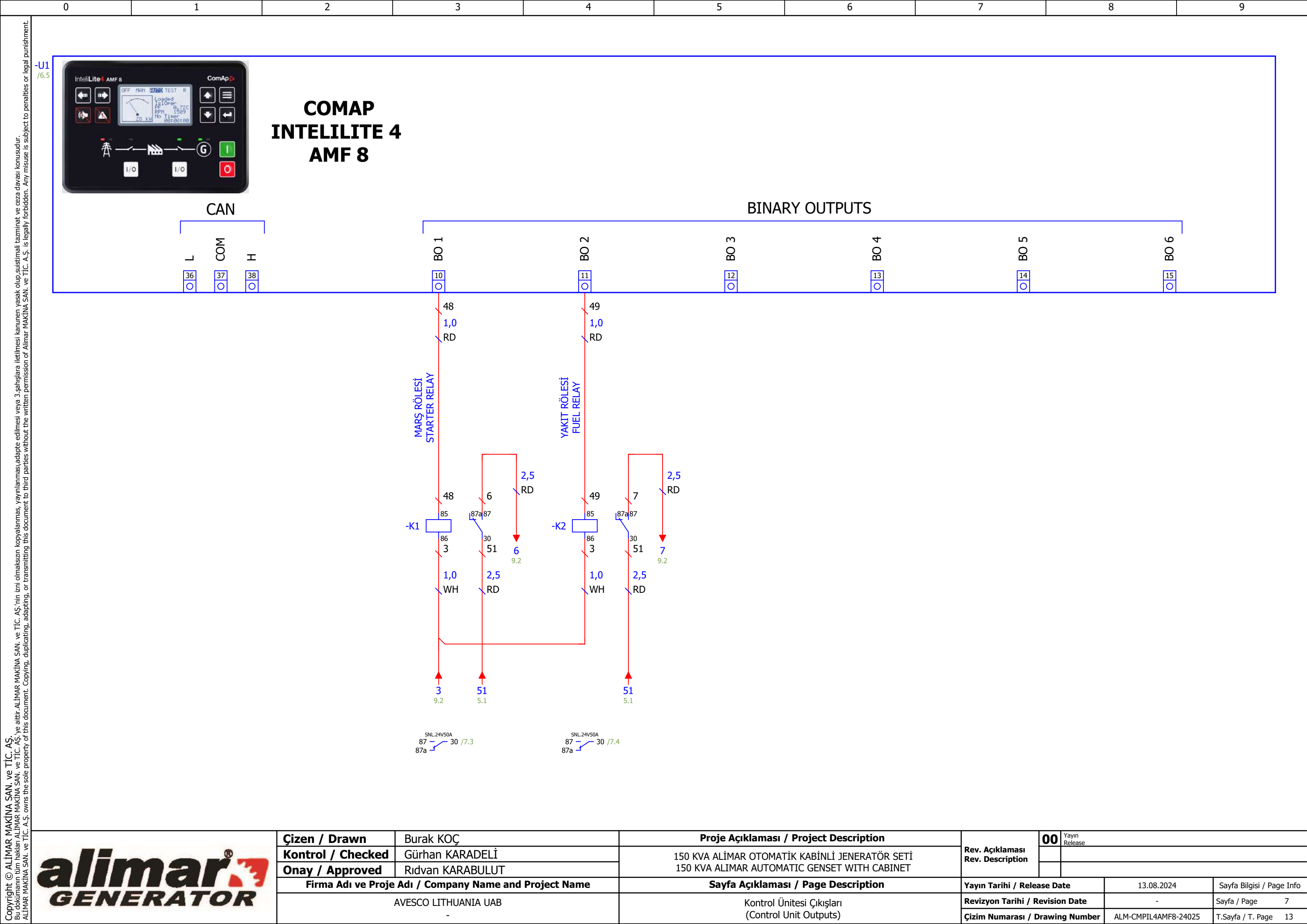
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| Rev. Açıklaması<br>Rev. Description | 00                   | Yayın<br>Release          |
| Yayın Tarihi / Release Date         | 13.08.2024           | Sayfa Bilgisi / Page Info |
| Revizyon Tarihi / Revision Date     | -                    | Sayfa / Page 3            |
| Çizim Numarası / Drawing Number     | ALM-CMPIL4AMF8-24025 | T.Sayfa / T. Page 13      |

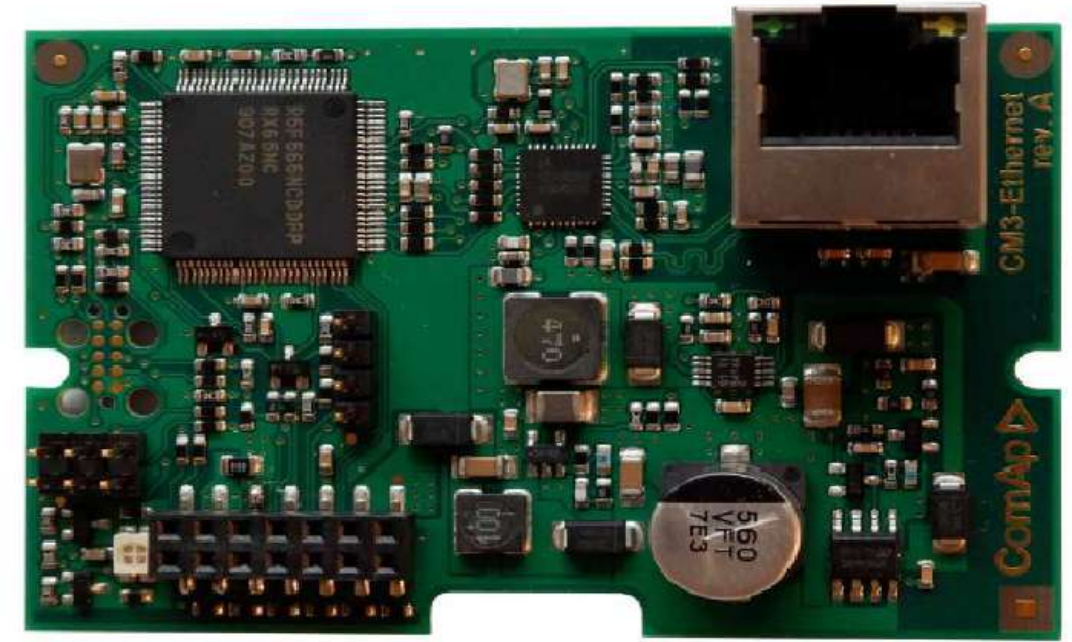
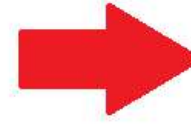
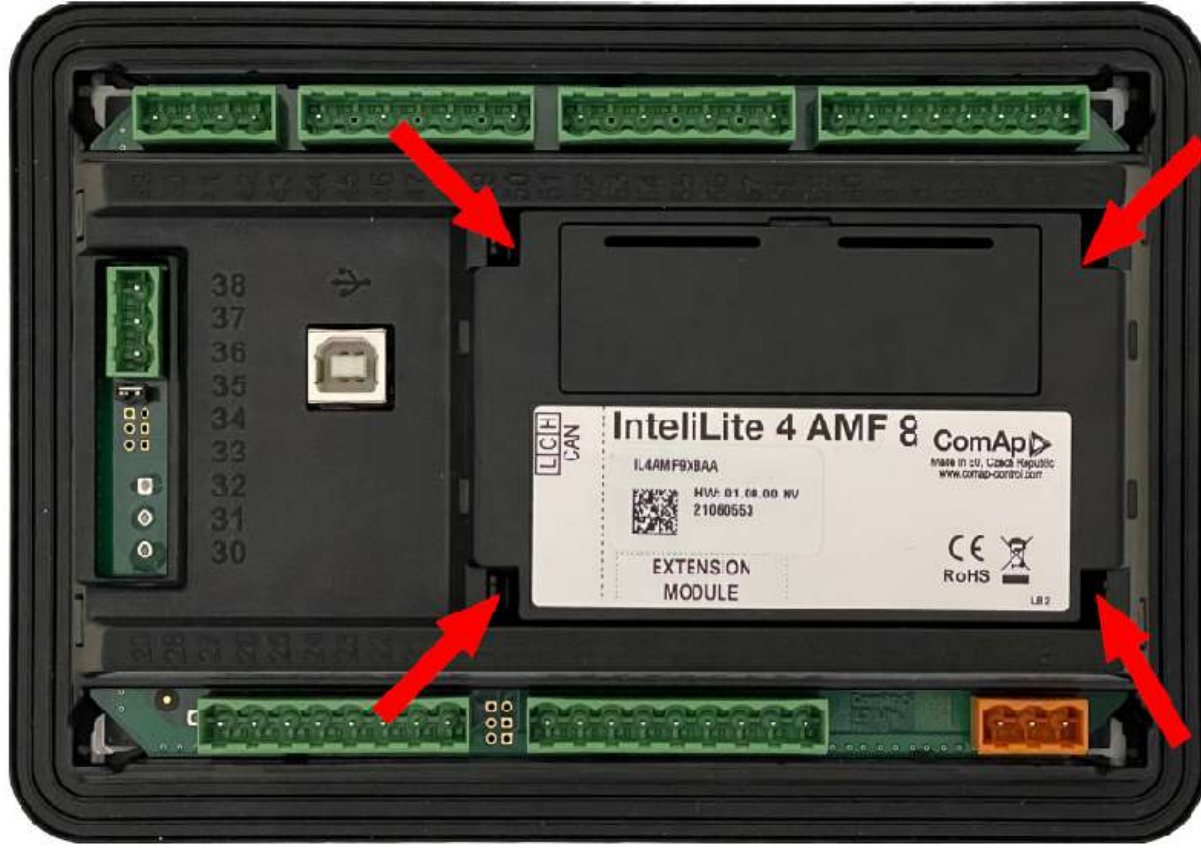


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|---------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|---------------|----------------------|---------------------------|
| <b>Çizen / Drawn</b>                                          | Burak KOÇ        | <b>Proje Açıklaması / Project Description</b><br><br>150 KVA ALİMAR OTOMATİK KABİNLİ JENERATÖR SETİ<br>150 KVA ALİMAR AUTOMATIC GENSET WITH CABINET | <b>Rev. Açıklaması / Rev. Description</b> | <b>00</b>                              | Yayın Release |                      |                           |
| <b>Kontrol / Checked</b>                                      | Gürhan KARADELİ  |                                                                                                                                                     |                                           |                                        |               |                      |                           |
| <b>Onay / Approved</b>                                        | Rıdvan KARABULUT |                                                                                                                                                     |                                           |                                        |               |                      |                           |
| <b>Firma Adı ve Proje Adı / Company Name and Project Name</b> |                  | <b>Sayfa Açıklaması / Page Description</b>                                                                                                          |                                           | <b>Yayın Tarihi / Release Date</b>     |               | 13.08.2024           | Sayfa Bilgisi / Page Info |
| AVESCO LITHUANIA UAB<br>-                                     |                  | Jen. Ve Şebeke Voltajı Referansı<br>(Gen. - Mains AC Voltage Ref.)                                                                                  |                                           | <b>Revizyon Tarihi / Revision Date</b> |               | -                    | Sayfa / Page 4            |
|                                                               |                  |                                                                                                                                                     |                                           | <b>Çizim Numarası / Drawing Number</b> |               | ALM-CMPIL4AMF8-24025 | T.Sayfa / T. Page 13      |

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| <div> <div>alimar</div> <div>GENERATOR</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <div> <div>Çizen / Drawn</div> <div>Kontrol / Checked</div> <div>Onay / Approved</div> </div> | <div>Burak KOÇ</div> <div>Gürhan KARADELİ</div> <div>Rıdvan KARABULUT</div> <div>Firma Adı ve Proje Adı / Company Name and Project Name</div> <div>AVESCO LITHUANIA UAB</div> <div>-</div> | <div>Proje Açıklaması / Project Description</div> <div>150 KVA ALİMAR OTOMATİK KABİNLİ JENERATÖR SETİ</div> <div>150 KVA ALİMAR AUTOMATIC GENSET WITH CABINET</div> <div>Sayfa Açıklaması / Page Description</div> <div>DC Voltaj Dağıtım - Şarj Redresörü</div> <div>(DC Voltage Distribution - Charging Rectifier)</div> | <div>Rev. Açıklaması</div> <div>Rev. Description</div> | <div>00</div> | <div>Yayın</div> <div>Release</div> | <div>13.08.2024</div> | <div>Sayfa Bilgisi / Page Info</div> | <div>Sayfa / Page</div> <div>5</div> | <div>T.Sayfa / T. Page</div> <div>13</div> |







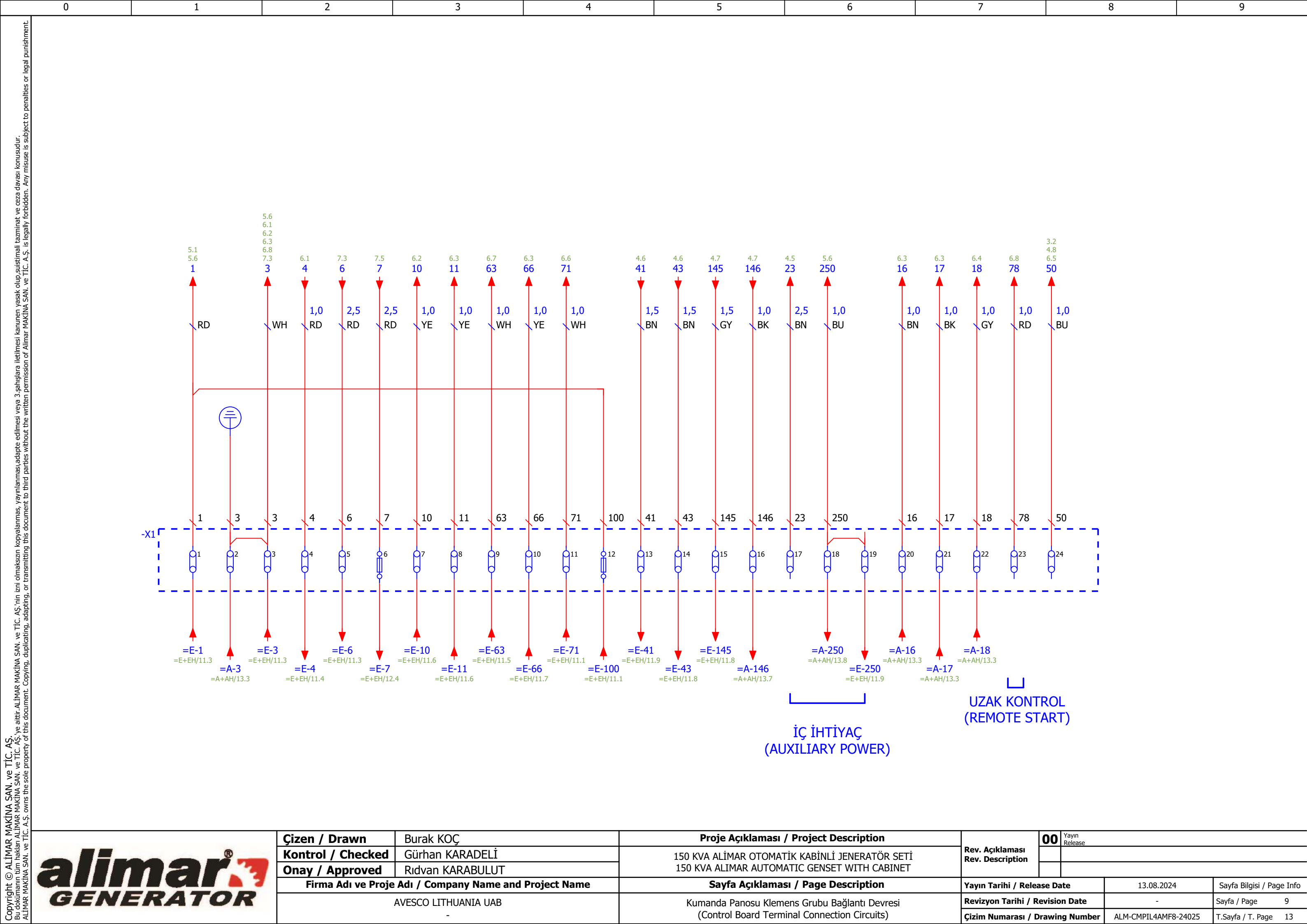
NOT: COMAP INTELLITE 4 AMF 8 PANEL ÜZERİNDE CM3 ETHERNET KARTINI TAKINIZ.  
(NOTE: SET CM3 ETHERNET CARD ON COMAP INTELLILITE 4 AMF 8 PANEL.)

**alimar**  
GENERATOR

|                                                        |                  |
|--------------------------------------------------------|------------------|
| Çizen / Drawn                                          | Burak KOÇ        |
| Kontrol / Checked                                      | Gürhan KARADELİ  |
| Onay / Approved                                        | Rıdvan KARABULUT |
| Firma Adı ve Proje Adı / Company Name and Project Name |                  |
| AVESCO LITHUANIA UAB                                   |                  |
| -                                                      |                  |

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| Proje Açıklaması / Project Description                                                         |
| 150 KVA ALİMAR OTOMATİK KABİNLİ JENERATÖR SETİ<br>150 KVA ALİMAR AUTOMATIC GENSET WITH CABINET |
| Sayfa Açıklaması / Page Description                                                            |
| Kontrol Ünitesi Modül Bağlantılar<br>(Control Unite Module Connection)                         |

|                                     |                      |                           |
|-------------------------------------|----------------------|---------------------------|
| Rev. Açıklaması<br>Rev. Description | 00                   | Yayın<br>Release          |
| Yayın Tarihi / Release Date         | 13.08.2024           | Sayfa Bilgisi / Page Info |
| Revizyon Tarihi / Revision Date     | -                    | Sayfa / Page 8            |
| Çizim Numarası / Drawing Number     | ALM-CMPIL4AMF8-24025 | T.Sayfa / T. Page 13      |

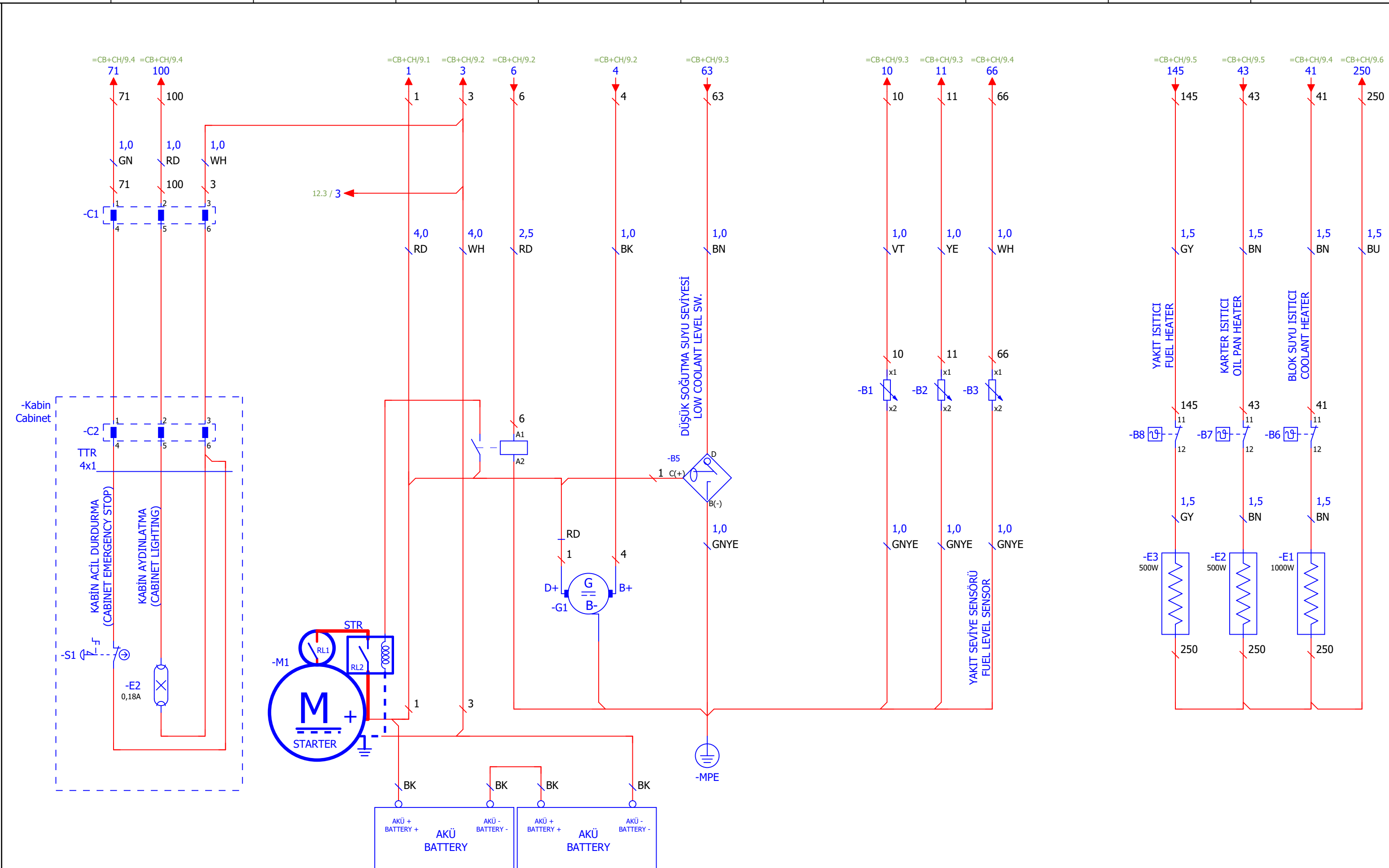


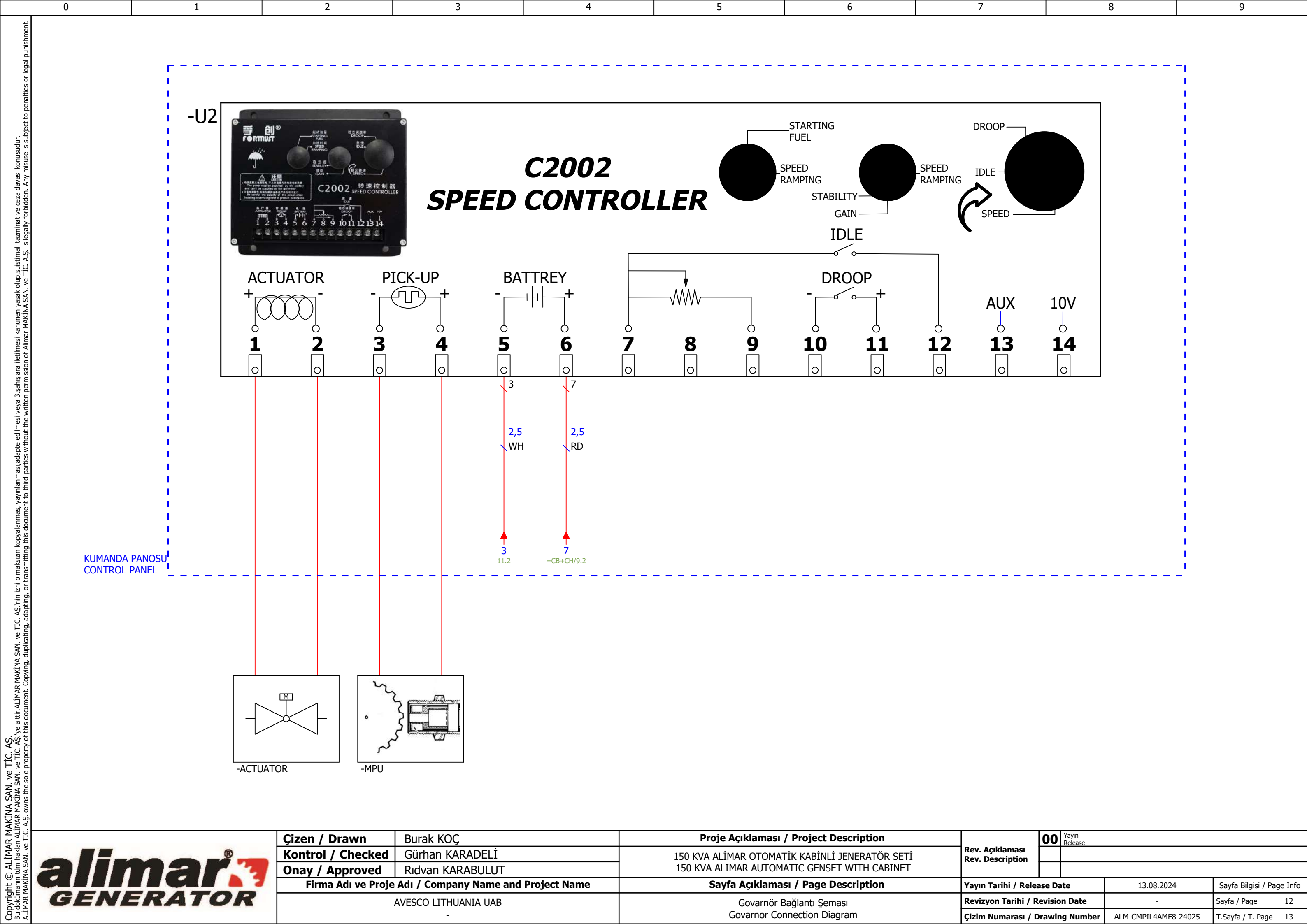
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| Çizen / Drawn                                          | Burak KOÇ        |
| Kontrol / Checked                                      | Gürhan KARADELİ  |
| Onay / Approved                                        | Rıdvan KARABULUT |
| Firma Adı ve Proje Adı / Company Name and Project Name |                  |
| AVESCO LITHUANIA UAB                                   |                  |
| -                                                      |                  |

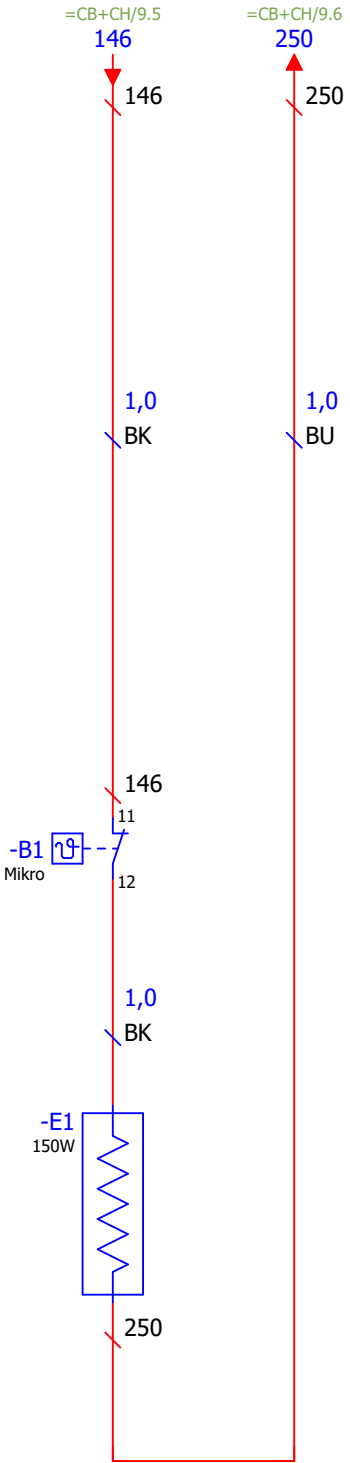
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| Proje Açıklaması / Project Description                                                         |
| 150 KVA ALİMAR OTOMATİK KABİNLİ JENERATÖR SETİ<br>150 KVA ALIMAR AUTOMATIC GENSET WITH CABINET |
| Sayfa Açıklaması / Page Description                                                            |
| Kumanda Panosu Klemens Grubu Bağlantı Devresi<br>(Control Board Terminal Connection Circuits)  |

|                                     |                      |                           |
|-------------------------------------|----------------------|---------------------------|
| Rev. Açıklaması<br>Rev. Description | 00                   | Yayın<br>Release          |
| Yayın Tarihi / Release Date         | 13.08.2024           | Sayfa Bilgisi / Page Info |
| Revizyon Tarihi / Revision Date     | -                    | Sayfa / Page 9            |
| Çizim Numarası / Drawing Number     | ALM-CMPIL4AMF8-24025 | T.Sayfa / T. Page 13      |

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CODES</div><table><tr><td></td><td>RD</td><td>KIRMIZI</td><td>RED</td></tr><tr><td></td><td>BU</td><td>MAVİ</td><td>BLUE</td></tr><tr><td></td><td>GY</td><td>GRİ</td><td>GREY</td></tr><tr><td></td><td>YE</td><td>SARI</td><td>YELLOW</td></tr><tr><td></td><td>BN</td><td>KAHVERENGİ</td><td>BROWN</td></tr><tr><td></td><td>BK</td><td>SİYAH</td><td>BLACK</td></tr><tr><td></td><td>GN</td><td>YEŞİL</td><td>GREEN</td></tr><tr><td></td><td>GNYE</td><td>YEŞİL-SARI</td><td>GREEN-YELLOW</td></tr><tr><td></td><td>WH</td><td>BEYAZ</td><td>WHITE</td></tr><tr><td></td><td>VT</td><td>MOR</td><td>VIOLET</td></tr><tr><td></td><td>OG</td><td>TURUNCU</td><td>ORANGE</td></tr><tr><td></td><td>TQ</td><td>TURKUAZ</td><td>TURQUOISE</td></tr><tr><td></td><td>PK</td><td>PEMBE</td><td>PINK</td></tr></table></div> |         |            |              |   |   |   |   |   |   |  | RD | KIRMIZI | RED |  | BU | MAVİ | BLUE |  | GY | GRİ | GREY |  | YE | SARI | YELLOW |  | BN | KAHVERENGİ | BROWN |  | BK | SİYAH | BLACK 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   |  |    |            |       |  |    |       |       |  |    |       |       |  |      |            |              |  |    |       |       |  |    |     |        |  |    |         |        |  |    |         |           |  |    |       |      |







| NO | INFORMATION                     | TYPE               | MANUFACTURER  | MARKING IN SCHEME                                | LOCATION |
|----|---------------------------------|--------------------|---------------|--------------------------------------------------|----------|
| 1  | Automatic Control Panel         | Intelilite 4 AMF 8 | Comap         | U1                                               | BOARD    |
| 2  | Automatic Control Panel Module  | CM3 Ethernet       | Comap         | U1/1                                             |          |
| 3  | Emergency Button                | B200EE             | Emas          | S1                                               |          |
| 4  | Relay                           | RT424730           | Schrack       | K7                                               |          |
| 5  | Relay                           | SR1256             | Sanel         | K1, K2                                           |          |
| 6  | MCCB 25A                        | CSE1N125FMU3 P25A  | C&S           | Q0                                               |          |
| 7  | Automatic Circuits Breaker 4A   | S201-C4            | ABB           | F5, F6, F7, F8, F9                               |          |
| 8  | Automatic Circuits Breaker 6A   | BMS311C06          | ABB           | F1, F2, F3, F4, F10                              |          |
| 9  | Automatic Circuits Breaker 16A  | BMS311C16          | ABB           | F11                                              |          |
| 10 | Battery Charge Rectifier 12V 5A | EBC1205            | Enko          | G1                                               |          |
| 11 | Terminal Block                  | ZK2.5              | TE / ENTRELEC | X1:4,5,6,7,8,9,10,11,13,14,15,16,20, 21,22,23,24 |          |
| 12 | Terminal Block                  | ZK6                | TE / ENTRELEC | X1:1,2,3,17,18,19                                |          |
| 13 | Terminal Block                  | ZS4-SF1            | TE / ENTRELEC | X1:12                                            |          |
| 14 | Diesel Heater                   | D2L                | Eberspacher   | P1                                               |          |
| 15 | Board Heater                    | MPHT15             | Plastim       | E1                                               |          |
| 16 | Board Heater Thermostad         | KTO-011            | Gwest         | B1                                               |          |
| 17 | Diesel Heater Fuse              | 5A                 | Eberspacher   | F30                                              |          |
| 18 | Diesel Heater Fuse              | 25A                | Eberspacher   | F31                                              |          |
| 19 | Cabinet Lighting                | MLB30              | Elektronad    | E1                                               | CABINET  |
| 20 | Coolant Heater                  | 220V-500w          | Inowarm       | E1                                               | DIESEL   |
| 21 | Oil Pan Heater                  | 220V-500w-PL       | Inowarm       | E2                                               |          |
| 22 | Fuel Heater                     | 220V-500w          | Inowarm       | E3                                               |          |
| 23 | Coolant Heater Thermostad       | TSD00705           | Cotherm       | B6                                               |          |
| 24 | Oil Pan Heater Thermostad       | KSD301             | CQC           | B7                                               |          |
| 25 | Fuel Heater Thermostad          | TSD00705           | Cotherm       | B8                                               |          |
| 26 | Engine Oil Pressure Sensor      | 0-10bar            | Original      | B1                                               |          |
| 27 | Engine Temperature Sensor       | 40-120C            | Original      | B2                                               |          |
| 28 | Fuel Level Sensor               | 0-180ohm           | Ölçüsan       | B3                                               |          |
| 29 | Coolant Level Sensor            | EcasE              | Ensim         | B5                                               |          |
| 30 | Fuel Valve                      | Fuel Type          | Original      | Y                                                |          |
| 31 | Engine Battery                  | Lead Acid          | İnci          | BATTERY                                          |          |

## Alimar Makina Sanayi ve Ticaret A.Ş.

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**F.** +90 266 246 54 68

|    |                              |       |                         |    |            |
|----|------------------------------|-------|-------------------------|----|------------|
| 32 | Engine Starter               | -     | Original                | M1 |            |
| 33 | 1. Phase Current Transformer | A20MN | Entes                   | T1 | ALTERNATOR |
| 34 | 2. Phase Current Transformer | A20MN | Entes                   | T2 |            |
| 35 | 3. Phase Current Transformer | A20MN | Entes                   | T3 |            |
| 36 | Winding Heater Thermostad    | -     | Leroy Somer<br>Original | B1 |            |
| 37 | Winding Heater               | -     | Leroy Somer<br>Original | E1 |            |

### Alimar Makina Sanayi ve Ticaret A.Ş.

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## List of All Alarm and Trip Set Points

| Number | Description                     | Set Value |                 |
|--------|---------------------------------|-----------|-----------------|
|        |                                 | Alarm     | Trip / Shutdown |
| 1      | Generator Under Frequency       |           | 42,5 Hz         |
| 2      | Generator Over Frequency        |           | 55 Hz           |
| 3      | Generator Under Voltage         |           | 280 V           |
| 4      | Generator Over Voltage          |           | 440 V           |
| 5      | Generator Over Current          |           | 216 A           |
| 6      | Generator Over Load             |           | 132 KW          |
| 7      | Mains Under Frequency           |           | 49 Hz           |
| 8      | Mains Over Frequency            |           | 49 Hz           |
| 9      | Mains Under Voltage             |           | 240 V           |
| 10     | Mains Over Voltage              |           | 440 V           |
| 11     | Generator Under Speed           |           | 1275 RPM        |
| 12     | Generator Over Speed            |           | 1650 RPM        |
| 13     | Generator Battery Under Voltage |           | 8 VDC           |
| 14     | Generator Battery Over Voltage  |           | 16 VDC          |
| 15     | Generator Maintenance           |           | 250 HRS         |
| 16     | Oil Pressure                    | 1.5 Bar   | 1 Bar           |
| 17     | Engine Temperature              | 100 °C    | 105 °C          |

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