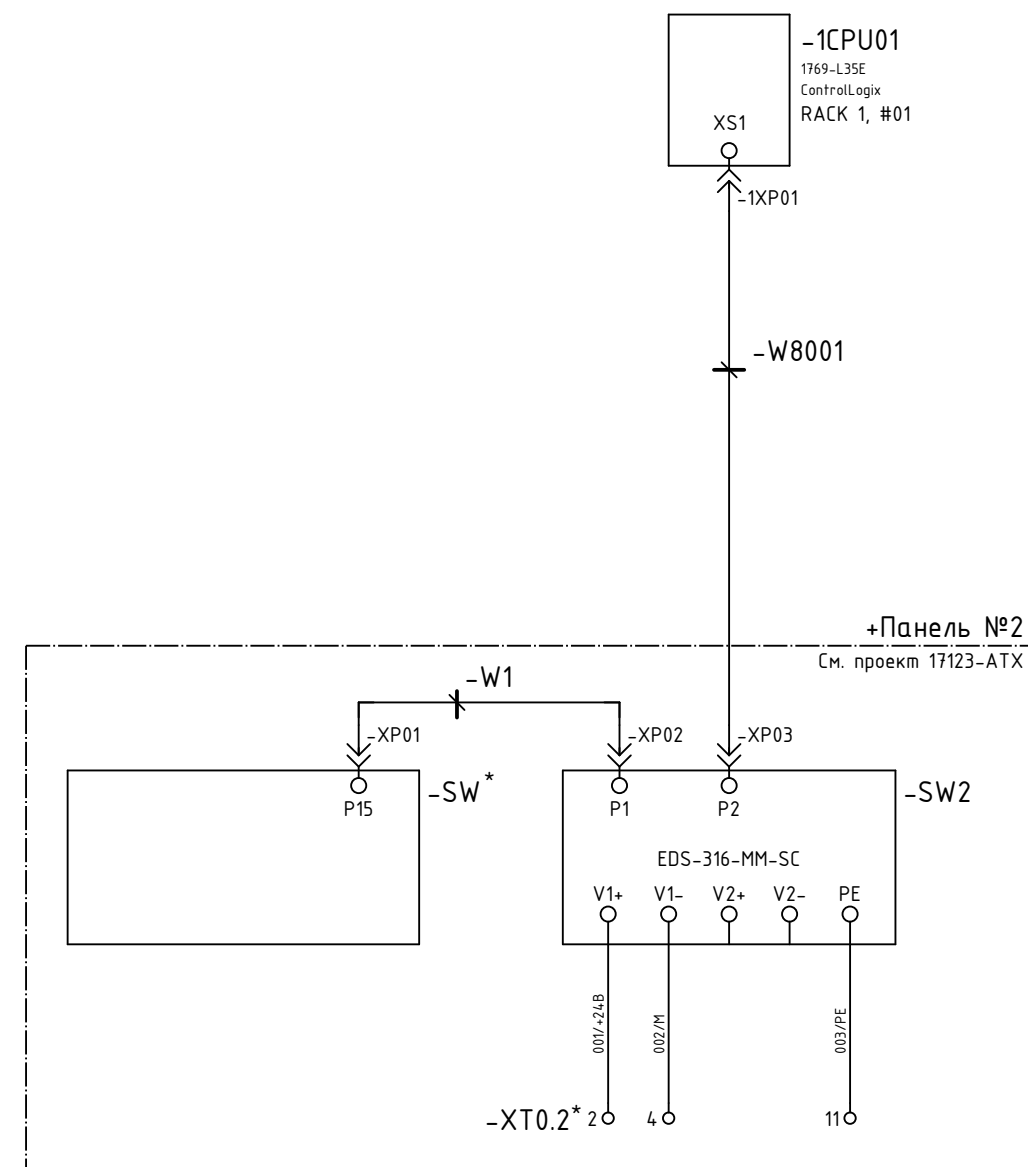
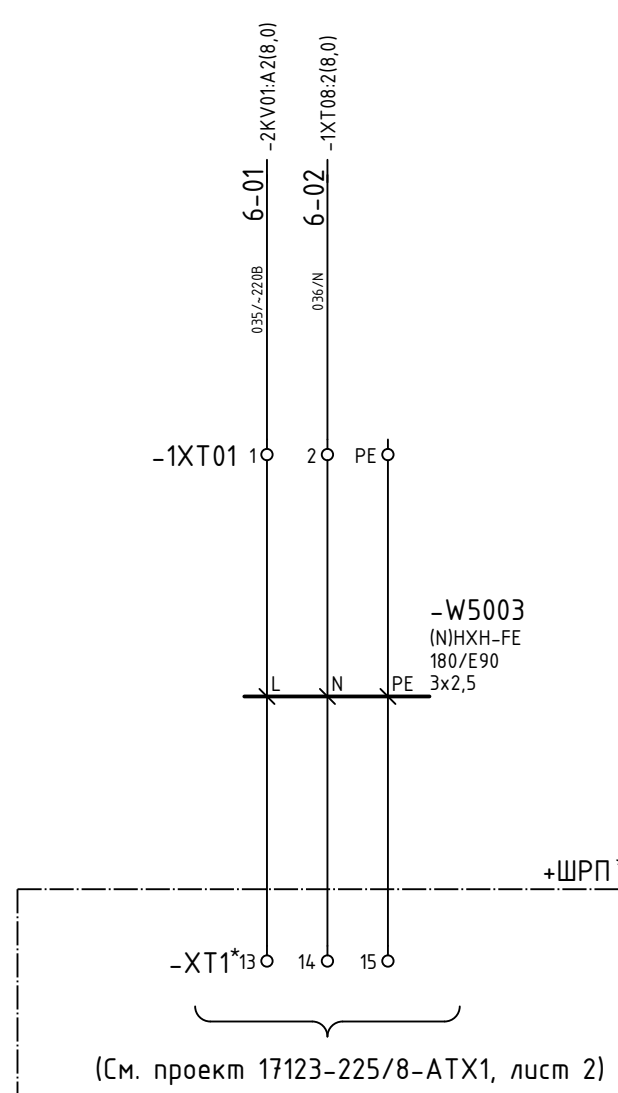
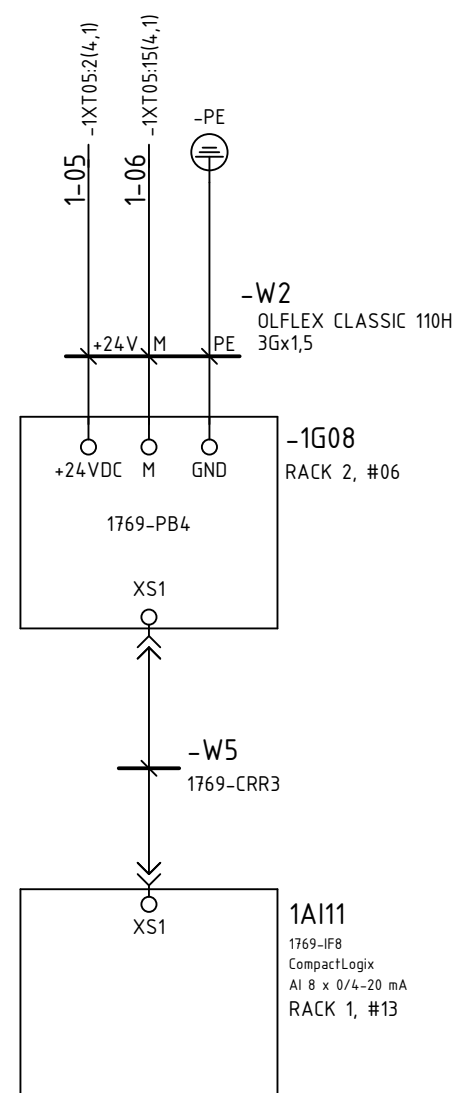
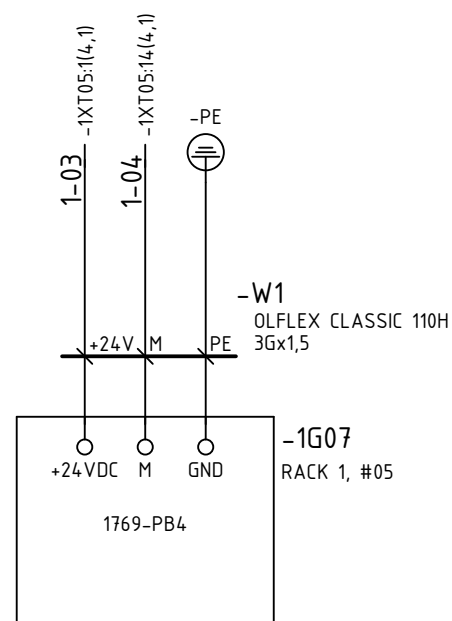




Питание полевых  
сигналов DI СК ~220В



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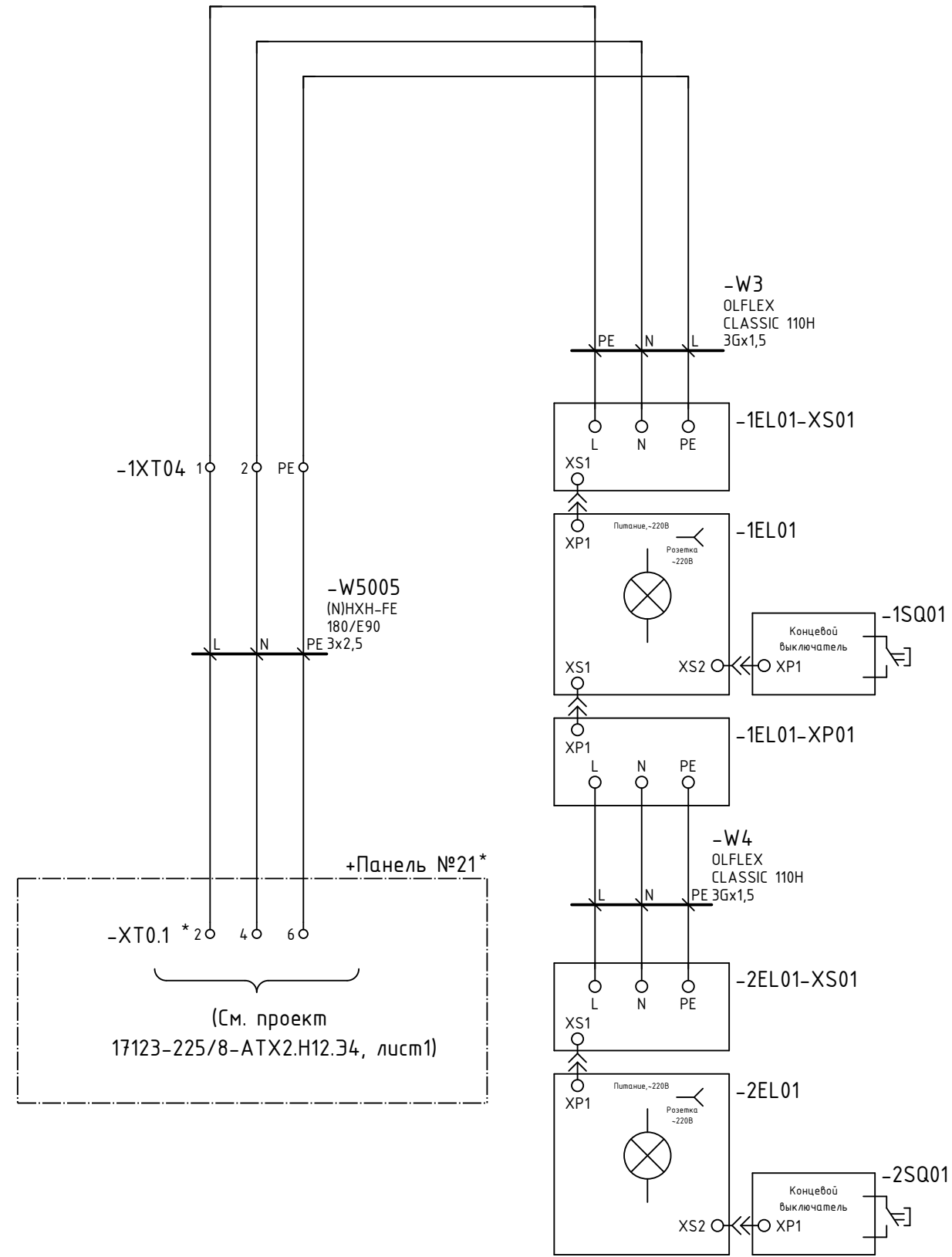
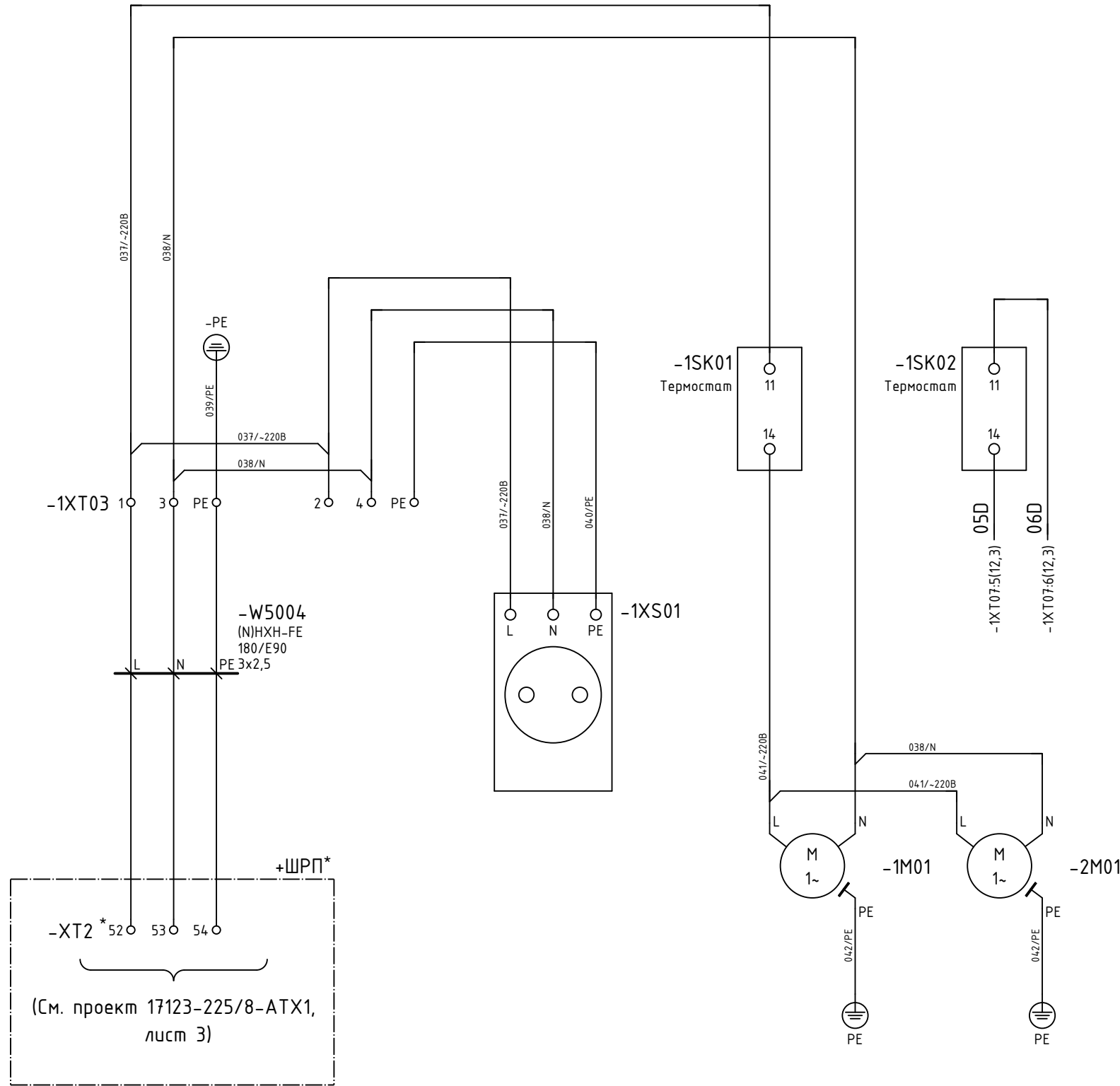
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Подп. и дата	
Взам. инв. №	



ПРЕДВАРИТЕЛЬНО

Изм.	Кол.уч.	Лист	№ док.	Подпись	Дата

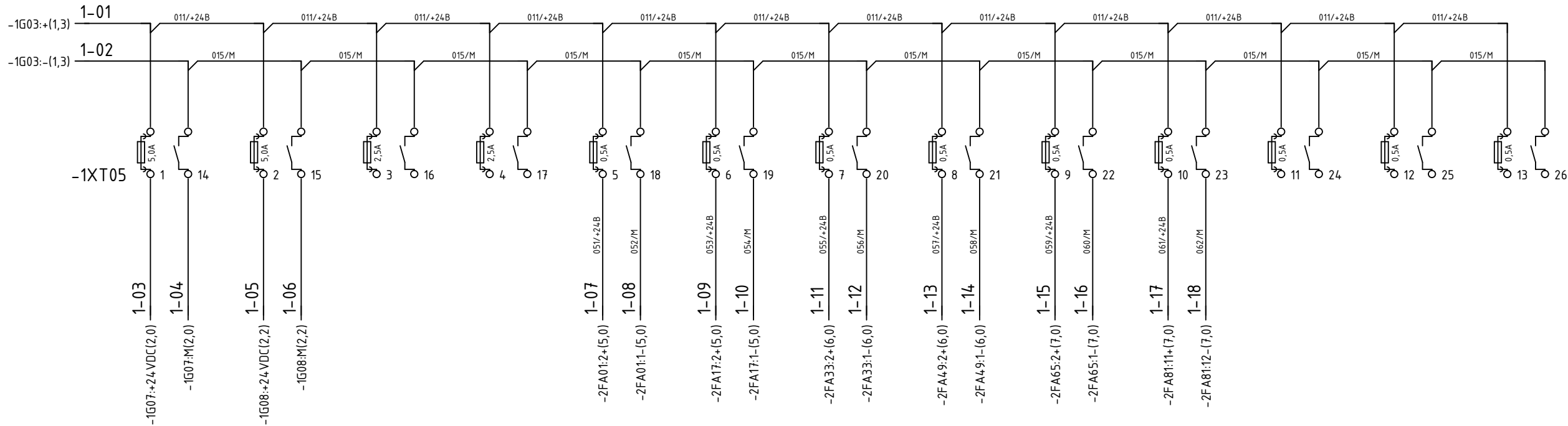
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Лист  
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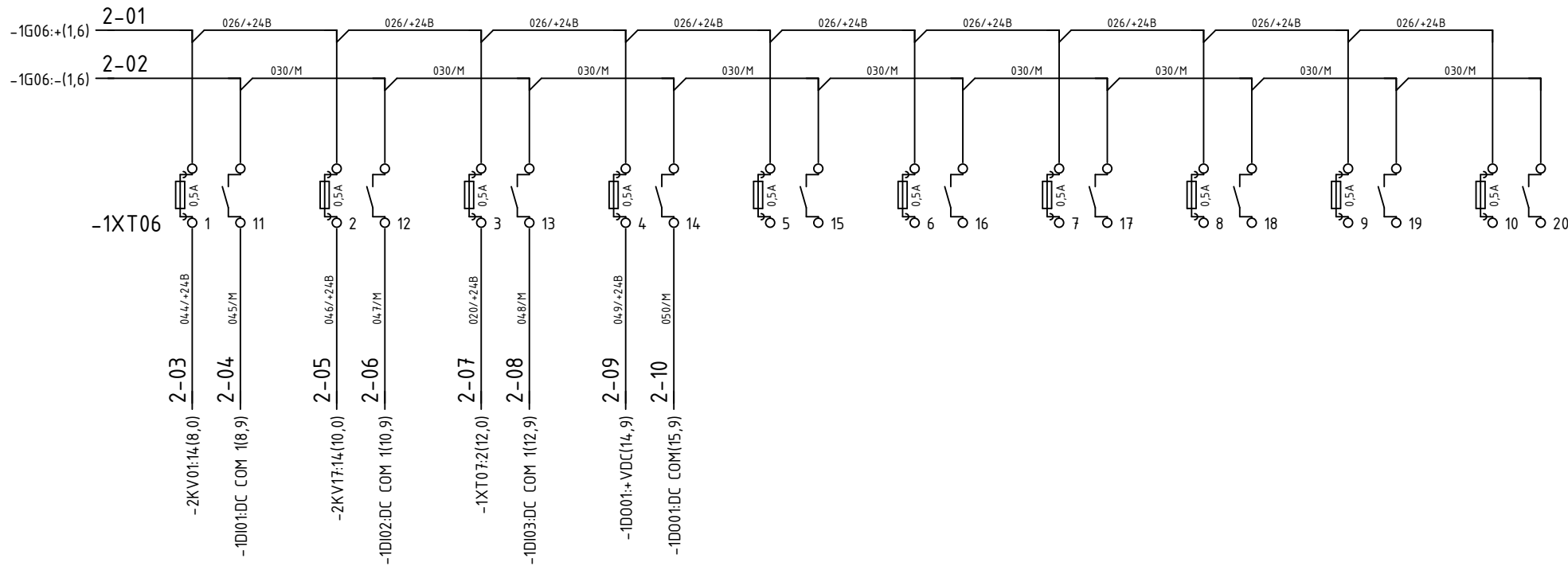
Формат А3

Инв. № подл.	Подп. и дата	Взам. инв. №

Питание контроллера, модулей и токовых преобразователей.



Питание сигнальных цепей

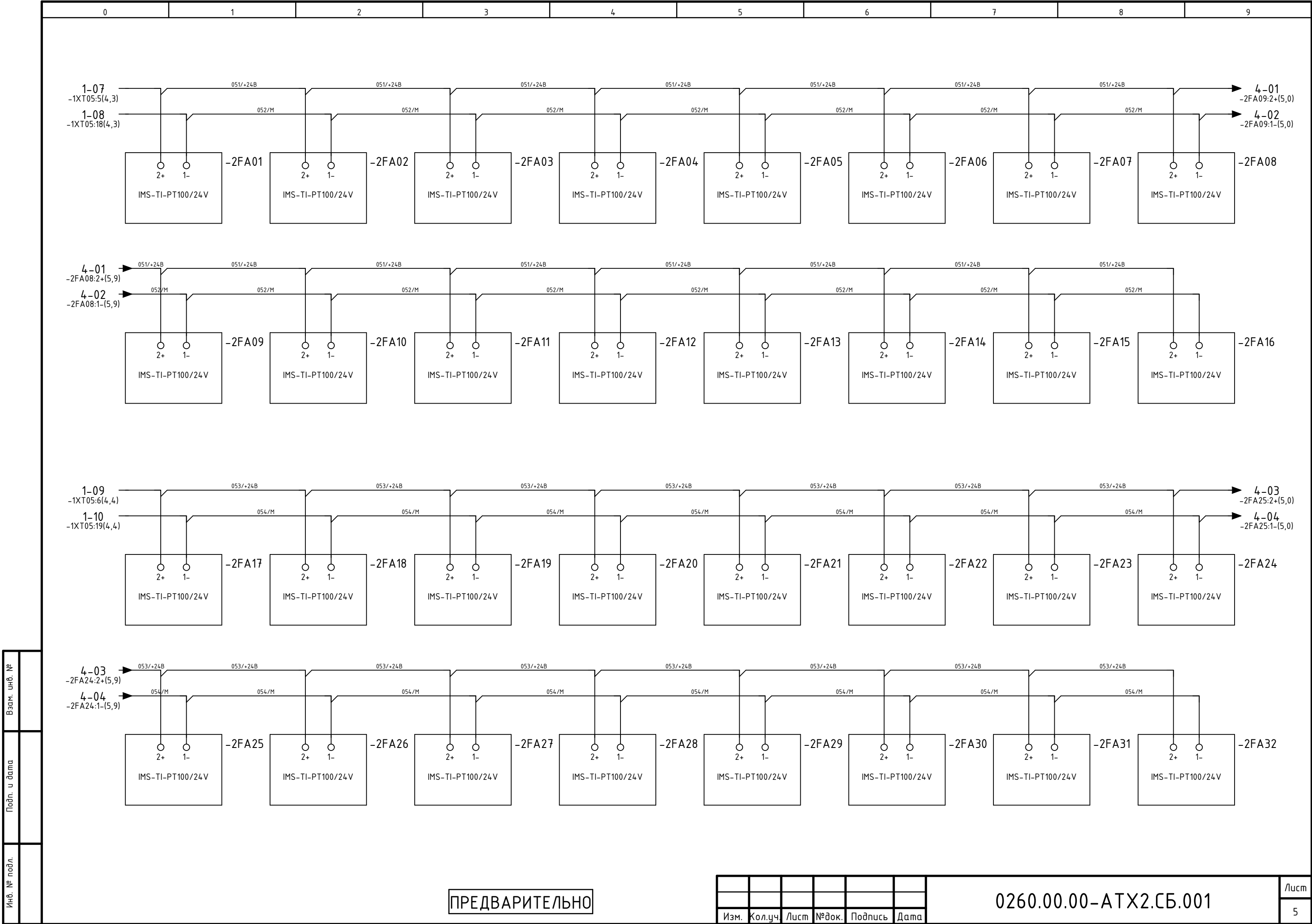


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4



Взм. инб. №

Подп. и дата

Инб. № подл.

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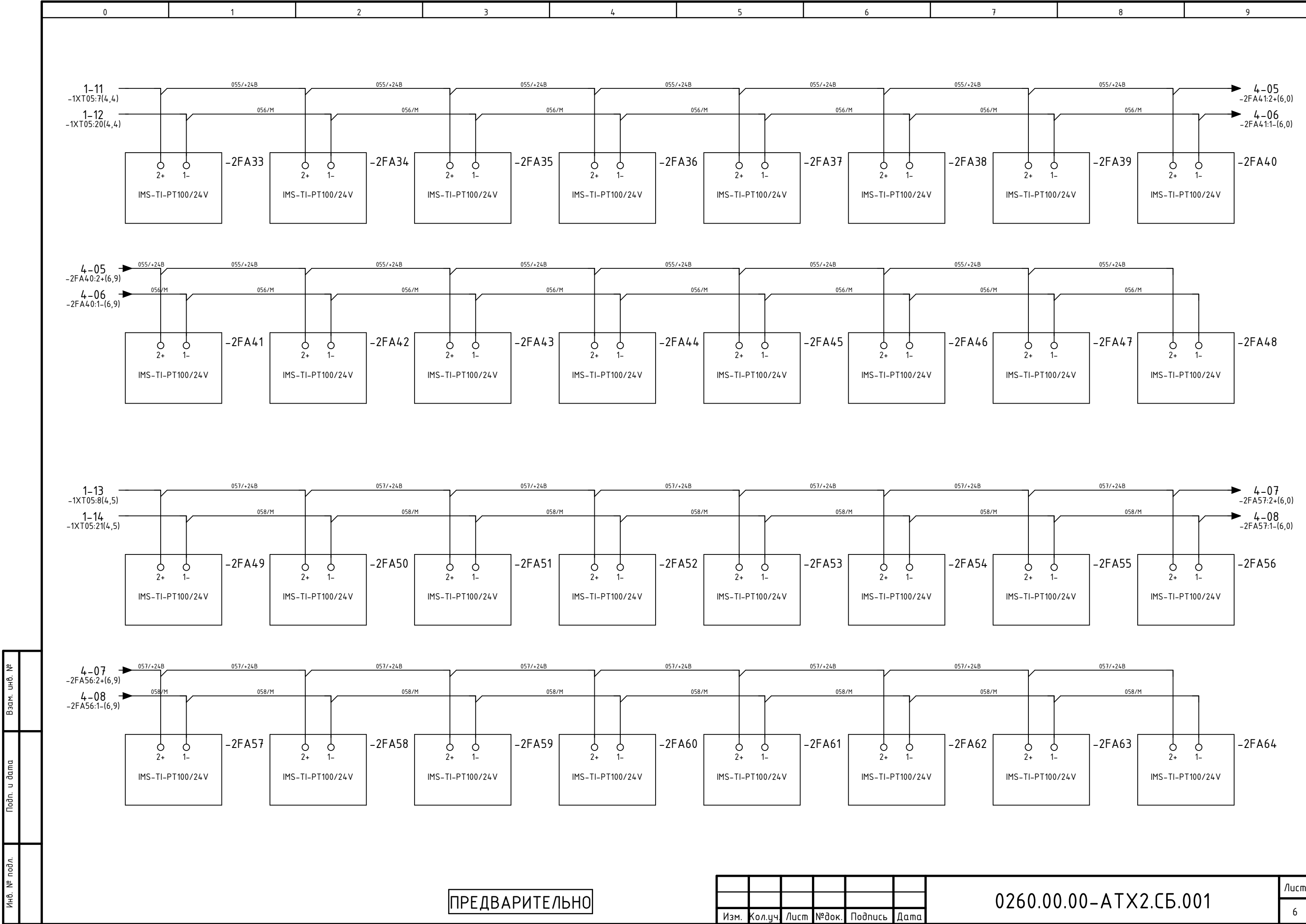
Изм.	Кол.уч.	Лист	№ док.	Подпись	Дата

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Формат А3



Взм. инб. №

Подп. и дата

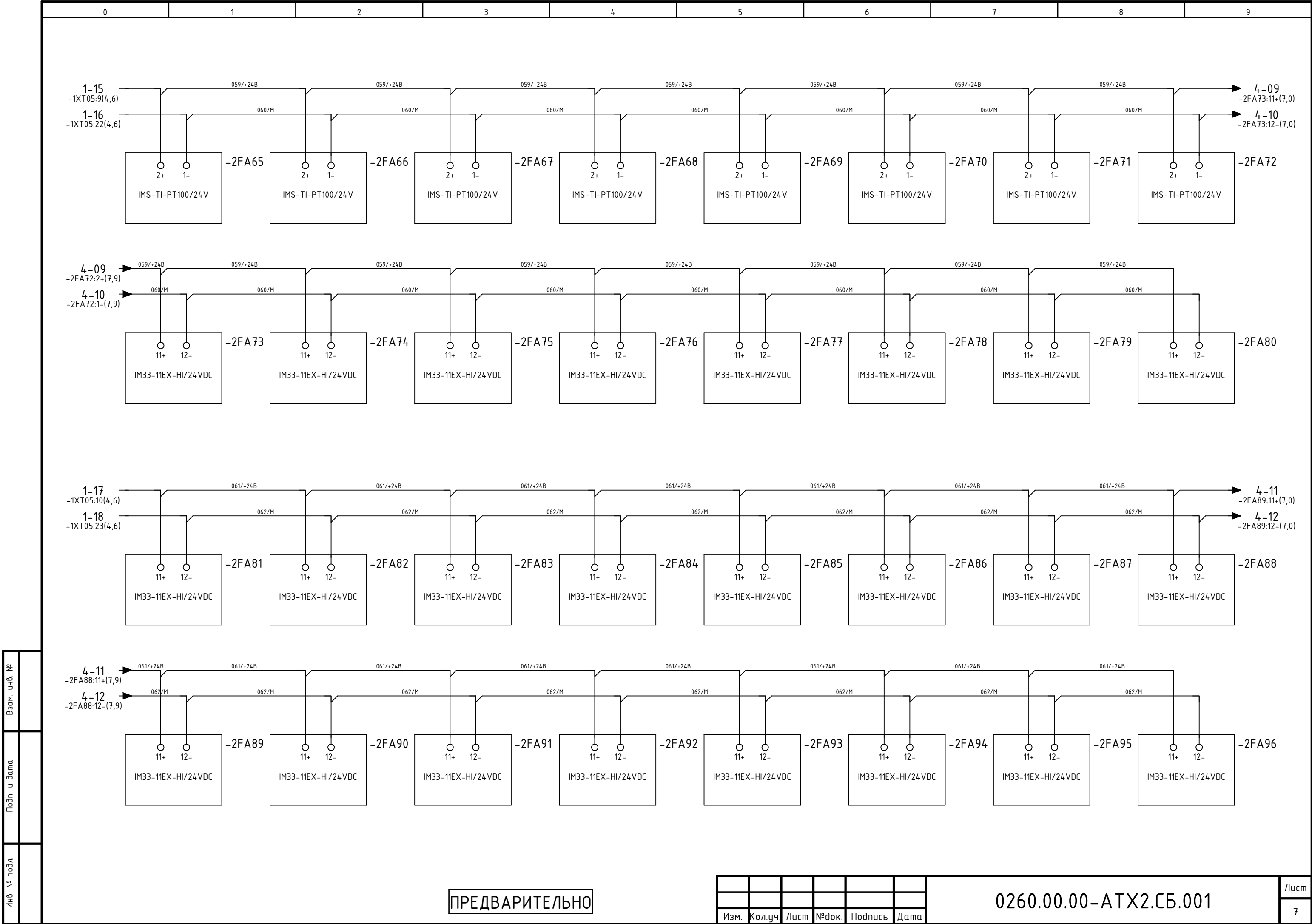
Инб. № подл.

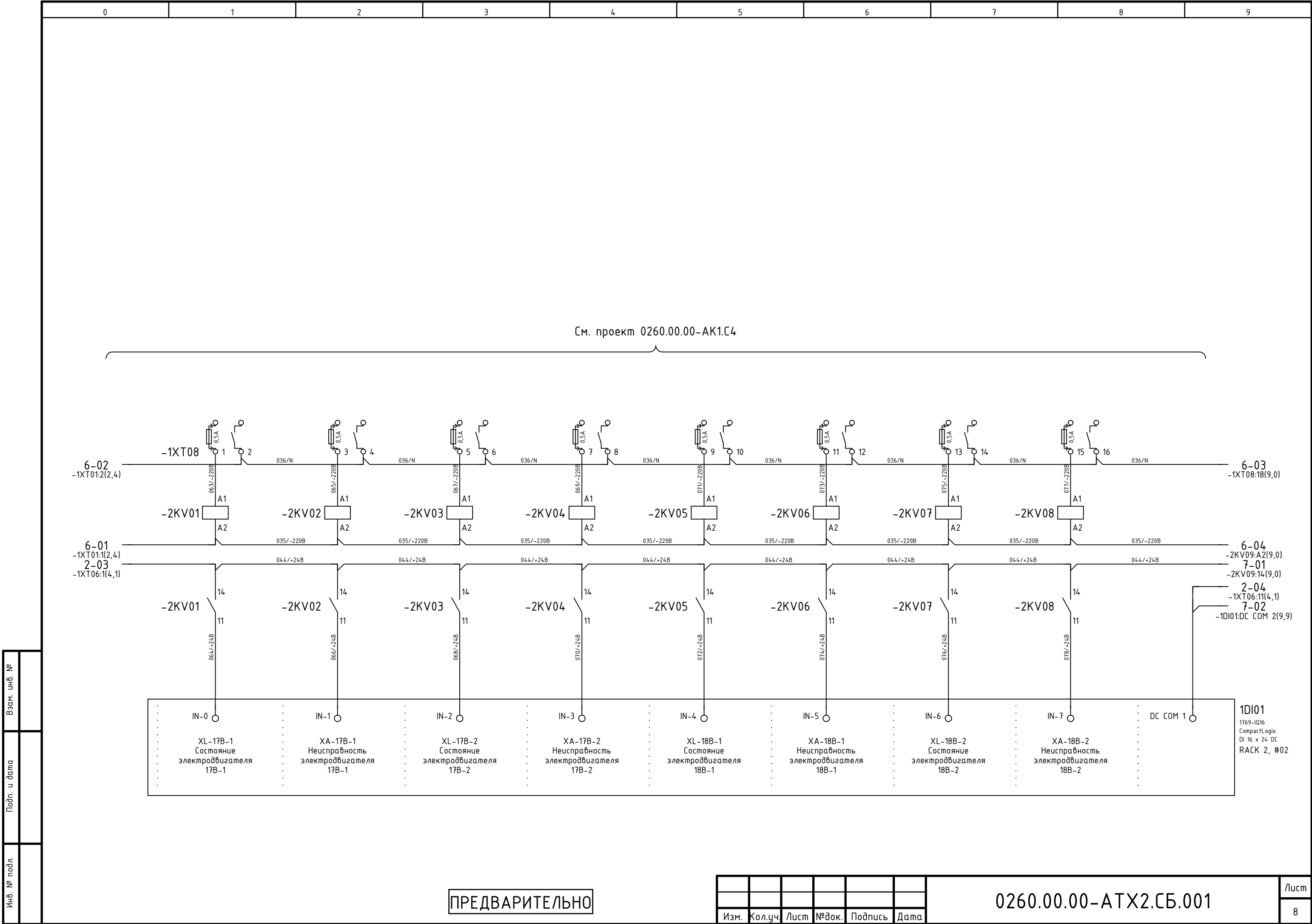
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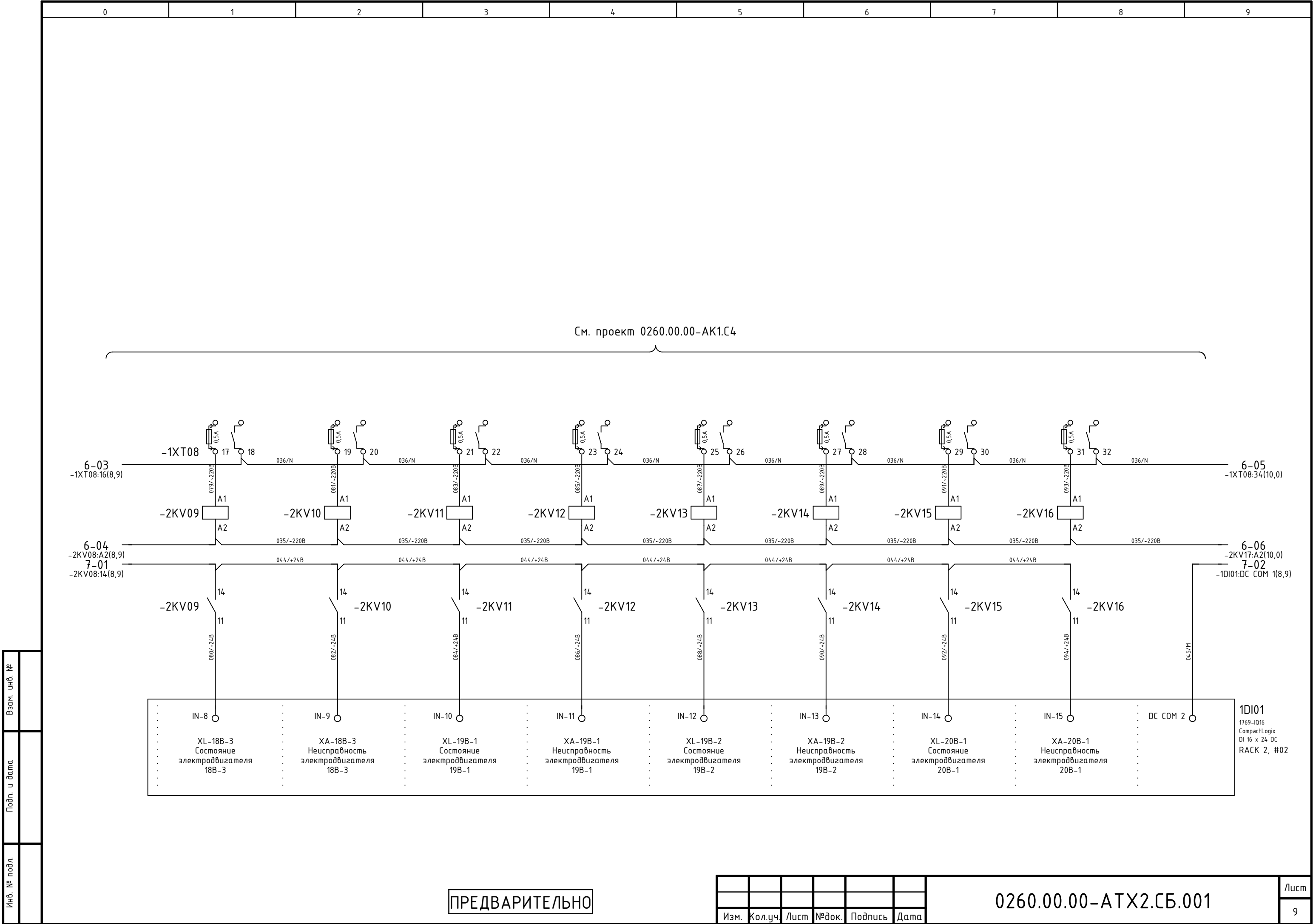
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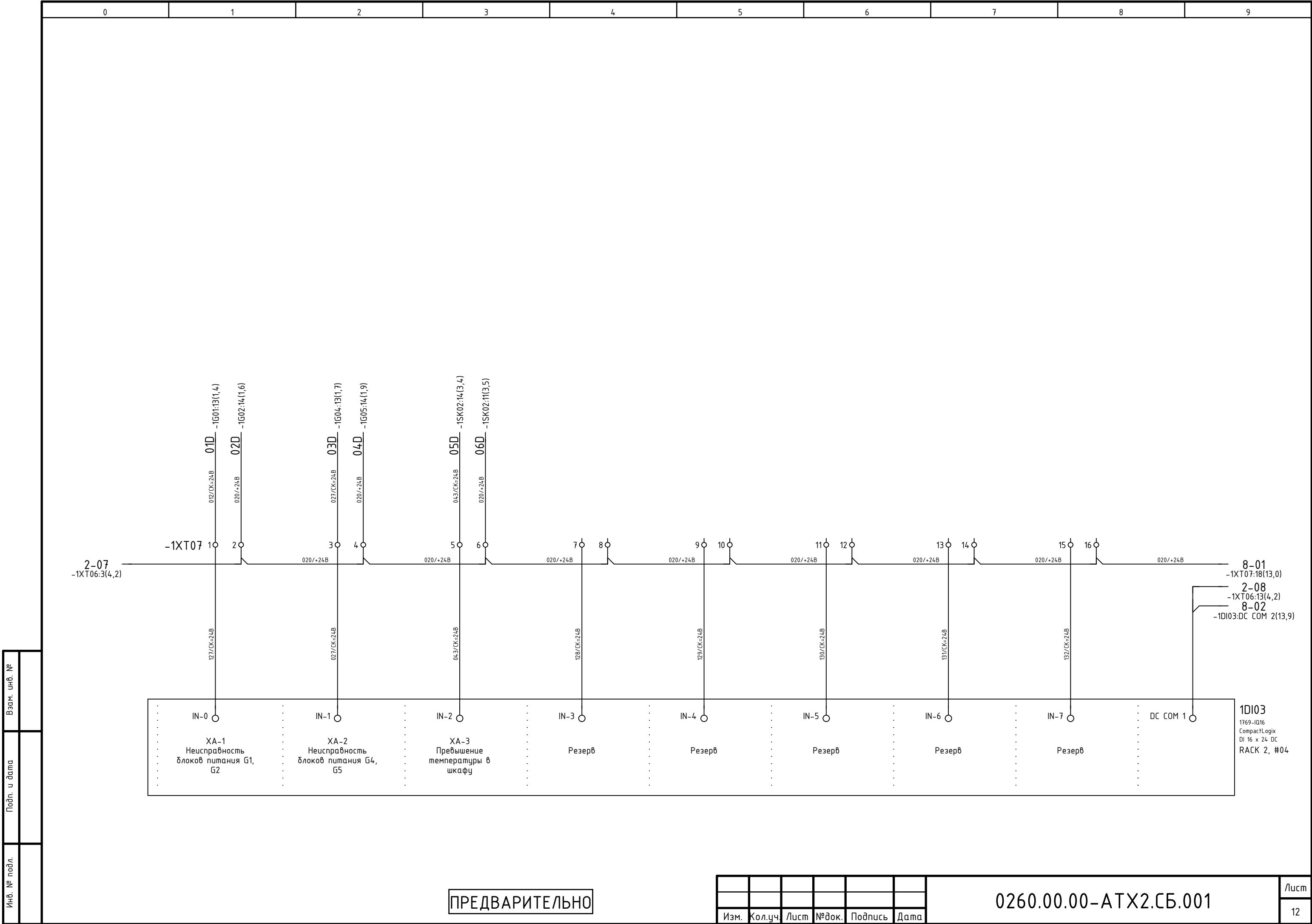


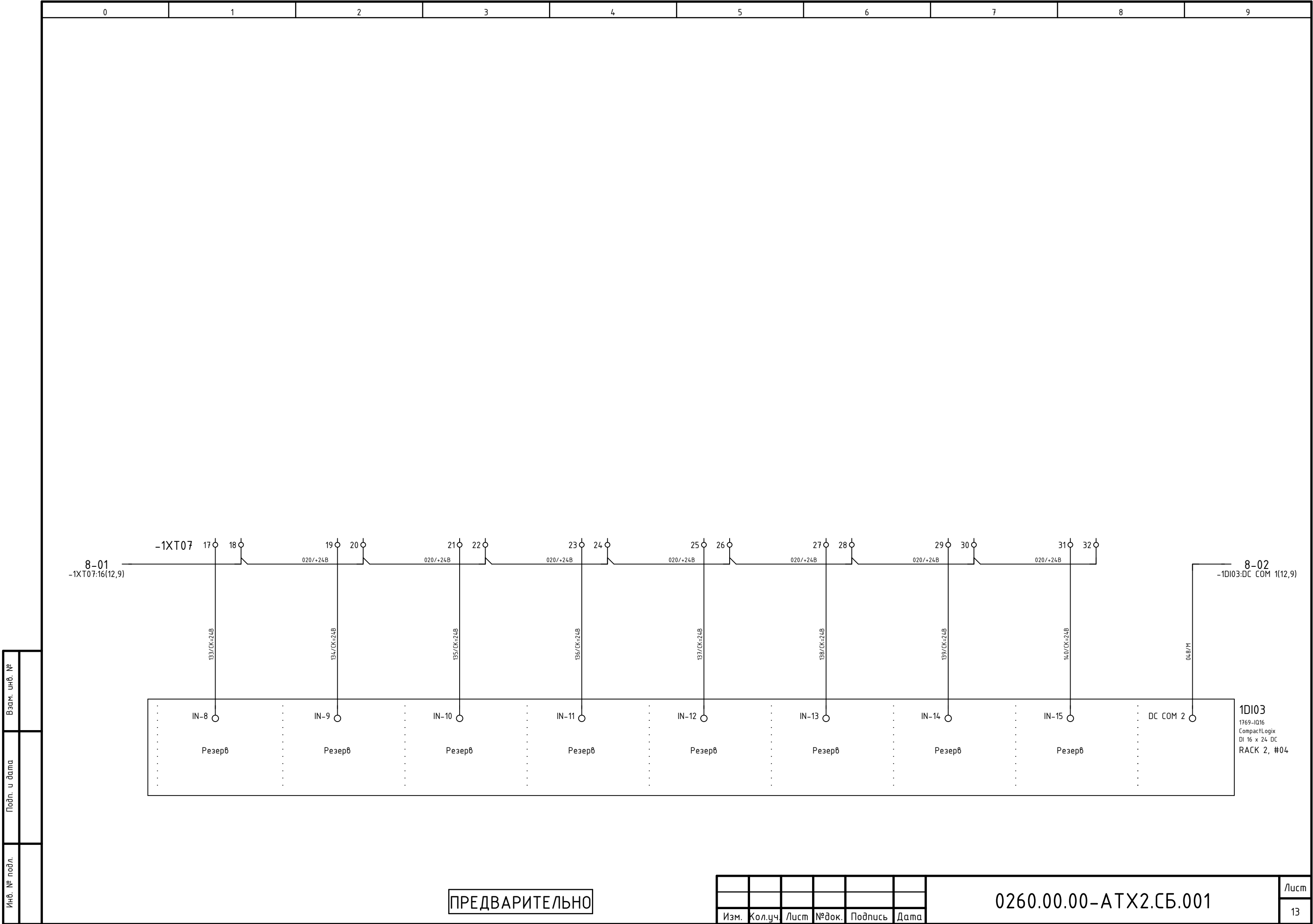












Схематическое изображение цепи управления для электродвигателей HS-17B-1, HS-17B-2, HS-18B-1, HS-18B-2, HS-18B-3, HS-19B-1, HS-19B-2 и HS-20B-1. На схеме показаны кнопки остановки (-2KV33 до -2KV40) и терминалы выхода (OUT-0 до OUT-7) модуля 1D001. Каждая кнопка связана с конкретным двигателем и выходом модуля. Вспомогательная цепь питания (+VDC) также подключена к модулю. В нижнем правом углу указаны характеристики модуля: 1769-0B16, CompactLogix, DO 16 x 24 DC, RACK 2, 05.

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The diagram illustrates the internal wiring of a 24-channel digital output module. The top section shows the power supply and ground connections. The middle section shows the internal circuitry for each channel, including relays (2KV41-2KV48) and the output driver (A1+, A2-). The bottom section shows the output terminals (OUT-8 to OUT-15) and their corresponding descriptions.

**Power Supply and Ground Connections:**

- 050/M: Power supply input for channels OUT-8 to OUT-15.
- 01: Ground connection for channels OUT-8 to OUT-15.

**Internal Circuitry:**

- Channels OUT-8 to OUT-15 are connected to relays 2KV41 through 2KV48.
- Each relay has a common terminal (A1+) and a normally open terminal (A2-).
- The output driver (A1+, A2-) is connected to the common terminal (A1+) of each relay.

**Output Terminals and Descriptions:**

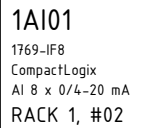
- OUT-8: HS-20B-2 Останов электродвигателя 20B-2 из АСУТП
- OUT-9: HS-20B-3 Останов электродвигателя 20B-3 из АСУТП
- OUT-10: Резерв
- OUT-11: Резерв
- OUT-12: Резерв
- OUT-13: Резерв
- OUT-14: Резерв
- OUT-15: Резерв
- DC COM: Common terminal for the DC output

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Diagram illustrating the wiring connections for the control cabinet, showing eight terminal blocks labeled -2FA09 through -2FA16, each connected to a specific motor winding. The terminal blocks are arranged in two rows of four. The top row contains -2FA09, -2FA10, -2FA11, and -2FA12. The bottom row contains -2FA13, -2FA14, -2FA15, and -2FA16. Each terminal block has four terminals on top, labeled with motor winding numbers (e.g., 33, 34, 35, 36 for -2FA09). Each terminal block also has two terminals on the bottom, labeled with winding specifications (e.g., 239/L...20 mA and 241/L...20 mA for -2FA09). The terminal blocks are connected to a common busbar at the bottom, which is labeled with winding numbers (e.g., I in 0+, V/I in 0- for -2FA09). The busbar is connected to the motor windings through a series of switches and relays. The diagram also shows the connection of the motor windings to the motor terminals (e.g., 33, 34, 35, 36 for -2FA09).

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Формат А3

The diagram illustrates the electrical connections for the 18B-1 to 18B-2 series of electrodrives. It shows eight identical units, each with a terminal block at the top for phase voltages (285V to 332V), a central control box labeled -2FA17 to -2FA24 (IMS-TI-PT100/24V), and a bottom terminal block for current sensing (I in 0+ to I in 7+ and V/I in 0- to V/I in 7-). Each unit also has a temperature sensor (TRSA-18B-1E to TRSA-18B-2F) connected to the bottom terminal block. The units are labeled -2XT02, -2FA17, -2FA18, -2FA19, -2FA20, -2FA21, -2FA22, -2FA23, and -2FA24.

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Формат А3

The diagram illustrates the wiring for the TRSA-19B series of speed controllers, specifically models -2FA33 through -2FA40. Each model is represented by a block with its own set of terminals and internal wiring.

**Common Connections:**

- Power Input:** A 24V DC supply is connected to the "V/I in" terminal (labeled "V/I in 0-" to "V/I in 7-").
- Motor Output:** The motor is connected to the "I in" terminal (labeled "I in 0+" to "I in 7+").
- Temperature Measurement:** The temperature sensor is connected to the "I in" terminal (labeled "I in 0+" to "I in 7+").

**Internal Wiring and Labels:**

- Model -2FA33:** Internal wiring includes 381/P100 [Exi], 382/P100 [Exi], 384/P100 [Exi], 386/P100 [Exi], 387/P100 [Exi], 388/P100 [Exi], 390/P100 [Exi], 392/P100 [Exi], 393/P100 [Exi], 394/P100 [Exi], 396/P100 [Exi], 398/P100 [Exi], 399/P100 [Exi], 400/P100 [Exi], 402/P100 [Exi], 404/P100 [Exi], 405/P100 [Exi], 406/P100 [Exi], 408/P100 [Exi], 410/P100 [Exi], 411/P100 [Exi], 412/P100 [Exi], 414/P100 [Exi], 416/P100 [Exi], 417/P100 [Exi], 418/P100 [Exi], 420/P100 [Exi], 422/P100 [Exi], 423/P100 [Exi], 424/P100 [Exi], 426/P100 [Exi], 428/P100 [Exi].
- Model -2FA34:** Internal wiring includes 387/P100 [Exi], 388/P100 [Exi], 390/P100 [Exi], 392/P100 [Exi], 393/P100 [Exi], 394/P100 [Exi], 396/P100 [Exi], 398/P100 [Exi], 399/P100 [Exi], 400/P100 [Exi], 402/P100 [Exi], 404/P100 [Exi], 405/P100 [Exi], 406/P100 [Exi], 408/P100 [Exi], 410/P100 [Exi], 411/P100 [Exi], 412/P100 [Exi], 414/P100 [Exi], 416/P100 [Exi], 417/P100 [Exi], 418/P100 [Exi], 420/P100 [Exi], 422/P100 [Exi], 423/P100 [Exi], 424/P100 [Exi], 426/P100 [Exi], 428/P100 [Exi].
- Model -2FA35:** Internal wiring includes 387/P100 [Exi], 388/P100 [Exi], 390/P100 [Exi], 392/P100 [Exi], 393/P100 [Exi], 394/P100 [Exi], 396/P100 [Exi], 398/P100 [Exi], 399/P100 [Exi], 400/P100 [Exi], 402/P100 [Exi], 404/P100 [Exi], 405/P100 [Exi], 406/P100 [Exi], 408/P100 [Exi], 410/P100 [Exi], 411/P100 [Exi], 412/P100 [Exi], 414/P100 [Exi], 416/P100 [Exi], 417/P100 [Exi], 418/P100 [Exi], 420/P100 [Exi], 422/P100 [Exi], 423/P100 [Exi], 424/P100 [Exi], 426/P100 [Exi], 428/P100 [Exi].
- Model -2FA36:** Internal wiring includes 387/P100 [Exi], 388/P100 [Exi], 390/P100 [Exi], 392/P100 [Exi], 393/P100 [Exi], 394/P100 [Exi], 396/P100 [Exi], 398/P100 [Exi], 399/P100 [Exi], 400/P100 [Exi], 402/P100 [Exi], 404/P100 [Exi], 405/P100 [Exi], 406/P100 [Exi], 408/P100 [Exi], 410/P100 [Exi], 411/P100 [Exi], 412/P100 [Exi], 414/P100 [Exi], 416/P100 [Exi], 417/P100 [Exi], 418/P100 [Exi], 420/P100 [Exi], 422/P100 [Exi], 423/P100 [Exi], 424/P100 [Exi], 426/P100 [Exi], 428/P100 [Exi].
- Model -2FA37:** Internal wiring includes 387/P100 [Exi], 388/P100 [Exi], 390/P100 [Exi], 392/P100 [Exi], 393/P100 [Exi], 394/P100 [Exi], 396/P100 [Exi], 398/P100 [Exi], 399/P100 [Exi], 400/P100 [Exi], 402/P100 [Exi], 404/P100 [Exi], 405/P100 [Exi], 406/P100 [Exi], 408/P100 [Exi], 410/P100 [Exi], 411/P100 [Exi], 412/P100 [Exi], 414/P100 [Exi], 416/P100 [Exi], 417/P100 [Exi], 418/P100 [Exi], 420/P100 [Exi], 422/P100 [Exi], 423/P100 [Exi], 424/P100 [Exi], 426/P100 [Exi], 428/P100 [Exi].
- Model -2FA38:** Internal wiring includes 387/P100 [Exi], 388/P100 [Exi], 390/P100 [Exi], 392/P100 [Exi], 393/P100 [Exi], 394/P100 [Exi], 396/P100 [Exi], 398/P100 [Exi], 399/P100 [Exi], 400/P100 [Exi], 402/P100 [Exi], 404/P100 [Exi], 405/P100 [Exi], 406/P100 [Exi], 408/P100 [Exi], 410/P100 [Exi], 411/P100 [Exi], 412/P100 [Exi], 414/P100 [Exi], 416/P100 [Exi], 417/P100 [Exi], 418/P100 [Exi], 420/P100 [Exi], 422/P100 [Exi], 423/P100 [Exi], 424/P100 [Exi], 426/P100 [Exi], 428/P100 [Exi].
- Model -2FA39:** Internal wiring includes 387/P100 [Exi], 388/P100 [Exi], 390/P100 [Exi], 392/P100 [Exi], 393/P100 [Exi], 394/P100 [Exi], 396/P100 [Exi], 398/P100 [Exi], 399/P100 [Exi], 400/P100 [Exi], 402/P100 [Exi], 404/P100 [Exi], 405/P100 [Exi], 406/P100 [Exi], 408/P100 [Exi], 410/P100 [Exi], 411/P100 [Exi], 412/P100 [Exi], 414/P100 [Exi], 416/P100 [Exi], 417/P100 [Exi], 418/P100 [Exi], 420/P100 [Exi], 422/P100 [Exi], 423/P100 [Exi], 424/P100 [Exi], 426/P100 [Exi], 428/P100 [Exi].
- Model -2FA40:** Internal wiring includes 387/P100 [Exi], 388/P100 [Exi], 390/P100 [Exi], 392/P100 [Exi], 393/P100 [Exi], 394/P100 [Exi], 396/P100 [Exi], 398/P100 [Exi], 399/P100 [Exi], 400/P100 [Exi], 402/P100 [Exi], 404/P100 [Exi], 405/P100 [Exi], 406/P100 [Exi], 408/P100 [Exi], 410/P100 [Exi], 411/P100 [Exi], 412/P100 [Exi], 414/P100 [Exi], 416/P100 [Exi], 417/P100 [Exi], 418/P100 [Exi], 420/P100 [Exi], 422/P100 [Exi], 423/P100 [Exi], 424/P100 [Exi], 426/P100 [Exi], 428/P100 [Exi].

**Temperature Measurement Labels:**

- TRSA-19B-1C:** Температура обмотки статора электродвигателя 19B-1
- TRSA-19B-1D:** Температура переднего подшипника электродвигателя 19B-1
- TRSA-19B-1E:** Температура заднего подшипника электродвигателя 19B-1
- TRSA-19B-1F:** Температура корпуса статора электродвигателя 19B-1
- TRSA-19B-2A:** Температура обмотки статора электродвигателя 19B-2
- TRSA-19B-2B:** Температура обмотки статора электродвигателя 19B-2
- TRSA-19B-2C:** Температура обмотки статора электродвигателя 19B-2
- TRSA-19B-2D:** Температура переднего подшипника электродвигателя 19B-2

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The diagram illustrates the wiring for eight channels of a temperature sensor module. Each channel consists of a PT100 sensor (labeled -2FA41 to -2FA48) and a temperature sensor (labeled TRSA-19B-2E to TRSA-20B-1F). The PT100 sensors are connected to the module via 4-wire connections (ExI) labeled 4.29/PT100 [ExI] to 4.76/PT100 [ExI]. The temperature sensors are connected via 2-wire connections (ExI) labeled 4.31/I...20 mA to 4.75/I...20 mA. The module is labeled -2FA41 to -2FA48, IMS-TI-PT100/24V. The temperature sensor connections are labeled I in 0+ to I in 7+ and V/I in 0- to V/I in 7-.

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Diagram illustrating the wiring connections for the TRSA-20B-2A through TRSA-20B-3B temperature sensors. The diagram shows the internal wiring of the sensors, including the connection of the 4-pin connector to the sensor's internal circuitry.

The sensors are labeled as follows:

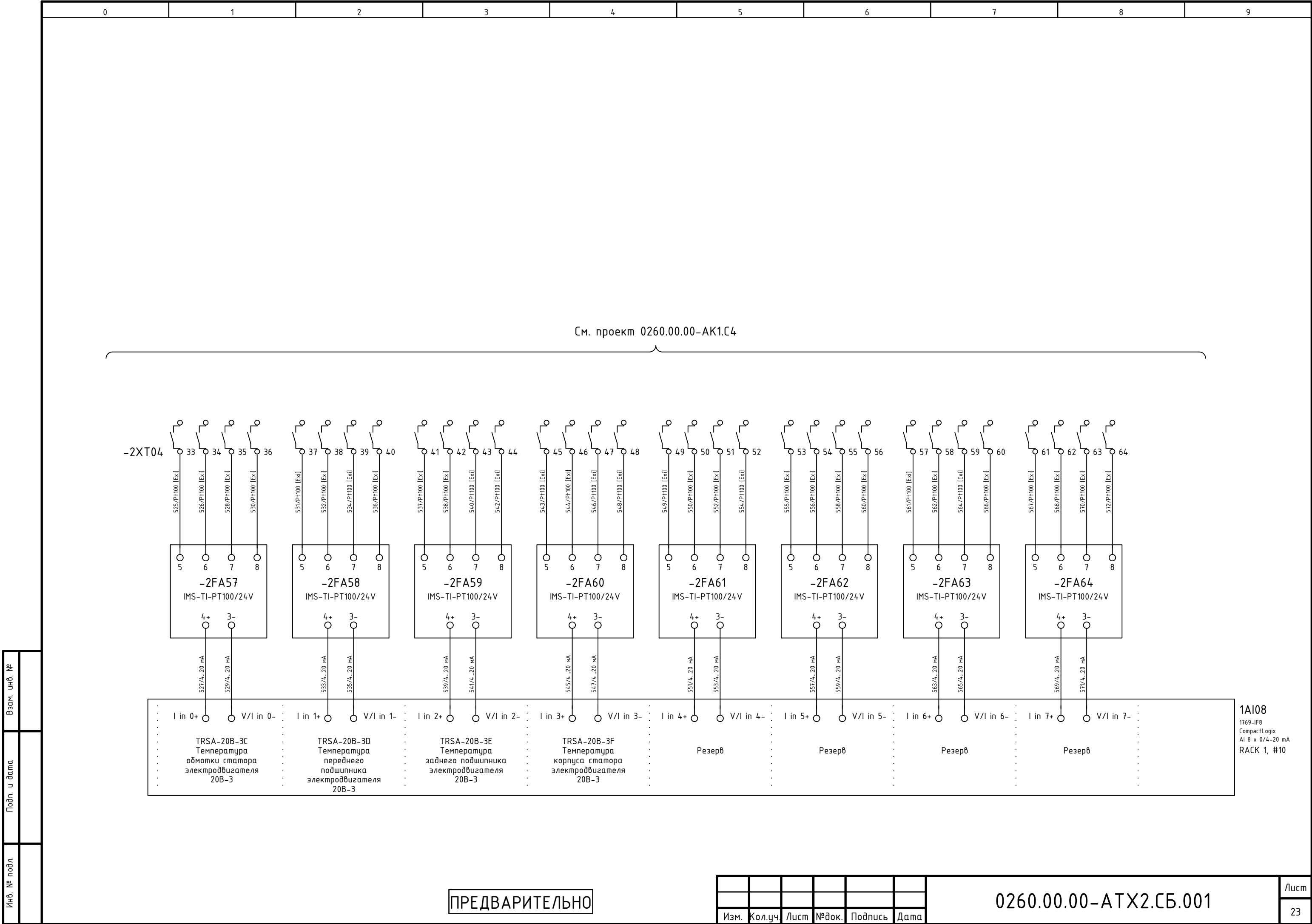
- TRSA-20B-2A: Температура обмотки статора электродвигателя 20B-2
- TRSA-20B-2B: Температура обмотки статора электродвигателя 20B-2
- TRSA-20B-2C: Температура обмотки статора электродвигателя 20B-2
- TRSA-20B-2D: Температура обмотки статора электродвигателя 20B-2
- TRSA-20B-2E: Температура заднего подшипника электродвигателя 20B-2
- TRSA-20B-2F: Температура корпуса статора электродвигателя 20B-2
- TRSA-20B-3A: Температура обмотки статора электродвигателя 20B-3
- TRSA-20B-3B: Температура обмотки статора электродвигателя 20B-3

The diagram shows the connection of the 4-pin connector to the sensor's internal circuitry. The 4-pin connector is connected to the sensor's power and ground pins. The sensor's power and ground pins are connected to the sensor's internal circuitry.

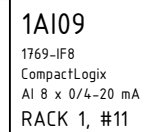
AI07  
69-IF8  
CompactLogix  
18 x 0/4-20 mA  
ACK 1, #09

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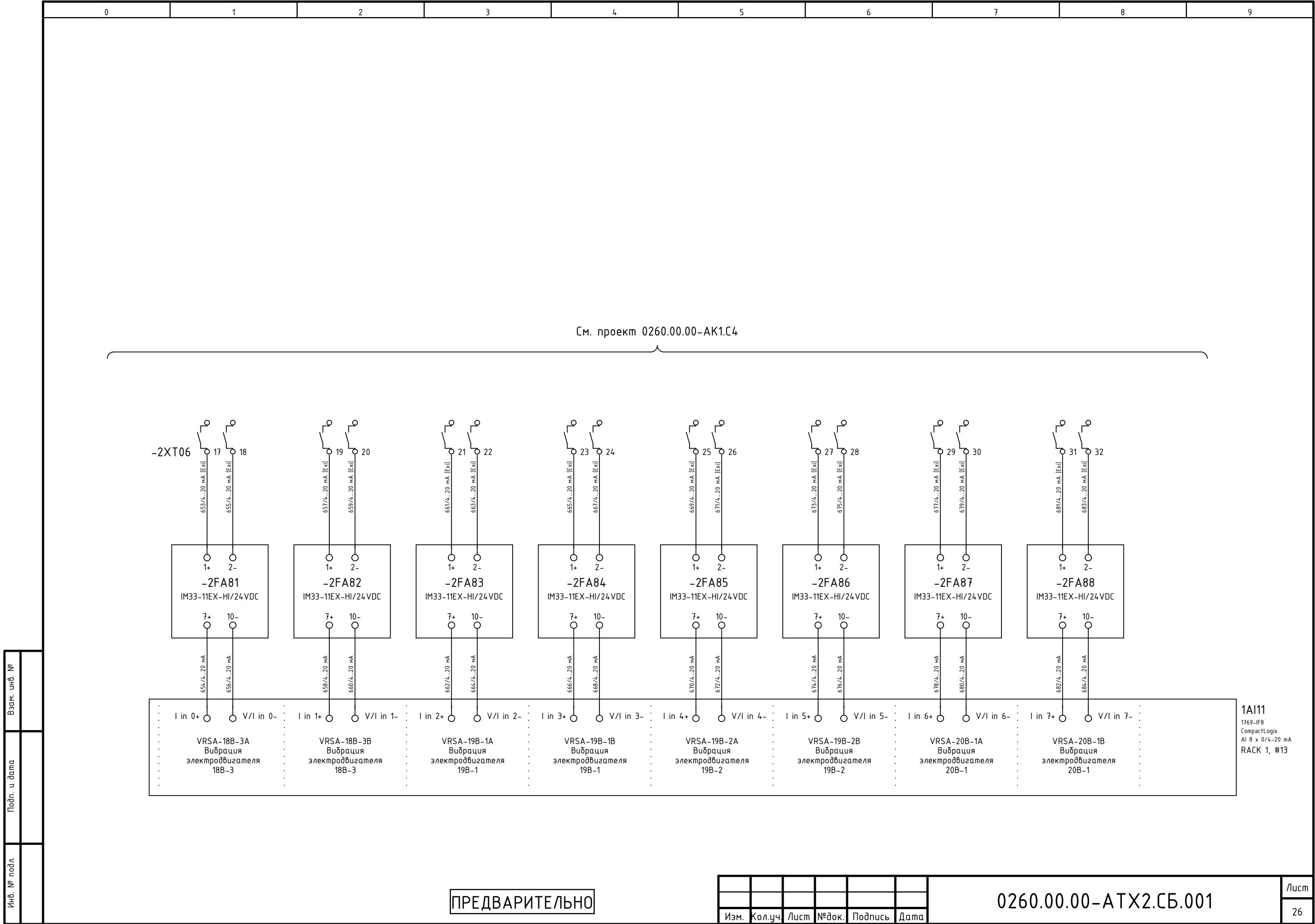
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Инв. № подл.	Подп. и дата	Взам. инв. №

1AI12  
1769-IF8  
CompactLogix  
AI 8 x 0/4-20 mA  
RACK 2, #01

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