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РП, п/ст

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Защищаемый объект

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№ ТМ, № ЕО

**ПАСПОРТ (протокол)**

**На** **релейную** **защиту**

**фидер (ячейка) №\_\_\_\_\_\_\_**

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**ПАСПОРТ (протокол)**

На защиту

(автомат и пр.)

**Защита выполнена по принципиальной схеме №**

**и монтажной схеме №**

**Спецификация аппаратуры**

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| №  п/п | Название | Тип | Заводской  № | Шкала |
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Трансформаторы тока тип­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Трансформаторы напряжения тип\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Тип привода,КО,КВ\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Напряжение оперативного тока\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Защита включена

(дата)

Начальник участка

(подпись И.О.Ф.)

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**Результаты проверки**

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| Дата | Характер и объем проверки  отклонения от данных  при первичном включении | Подпись  Проверявшего | Выявленные неисправности  и намеченные мероприятия | Подпись  мастера РЗиА |
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**Результаты проверки максимальной токовой защиты**

**1.Внешний осмотр и проверка механической части реле**

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| №  п/п | Наименование реле | Тип | Состояние реле | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |
| 1 | Токовое реле |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Реле времени |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Промежуточное реле |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Сигнальное реле |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Вспомогательная аппаратура |  |  |  |  |  |  |  |  |  |  |  |

**2. Проверка сопротивления изоляции мегаомметром** \_\_\_\_\_\_\_\_\_\_**в**

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| Наименование цепей | Относительно земли | | | | | Между цепями | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| Токовые цепи (мгом) |  |  |  |  |  |  |  |  |  |  |  |
| Оперативн. цепей (мгом) |  |  |  |  |  |  |  |  |  |  |  |
| Цепи наряжения |  |  |  |  |  |  |  |  |  |  |  |

**3. Испытание изоляции повышенным напряжением**

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| --- |
| Изоляция панели испытана напряжением \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_в течении \_\_\_\_\_\_\_\_\_\_\_\_\_  Испытание\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**4. Проверка схемы и маркировка**

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Маркировка выполнена по **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Надписи на панелях выполнены по\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Состояние маркировки и надписей\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5. Проверка временных характеристик**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| а) проверка тока срабатывания реле | | | | | б) характеристика Т-I (I)  для зависимых реле | | | | | | | | в) проверка шунтовых  реле пост. тока | | | |
| Фазы | Ж | З | К | О | Ж | | З | | К | | О | | № | Тип | Vср | Vсв |
| по шкале | | по шкале | | по шкале | | по шкале | |
| По шкале |  |  |  |  | I  (уст) | T  (уст) | I  (уст) | T  (уст) | I  (уст) | T  (уст) | I  (уст) | T  (уст) |  |  |  |  |
| Ток сраб(а) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ток возвр(а) |  |  |  |  | I  (a) | T  (сек) | I  (a) | T  (сек) | I  (a) | T  (сек) | I  (a) | T  (сек) |  |  |  |  |
| К(возвр) |  |  |  |  |  |  |  |  |  |  |  |  | д) проверка сервисных реле пост. тока | | | |
| г) проверка реле времени | | | | |  | |  | |  | |  | | № | Ток.ср | Паден. Напр. | |
| Vср | Vв | по шкале | Т(сек) | |  | |  | |  | |  | |  |  |  | |
| При Vном | При 80% Vном |
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е) проверка вибрации контактов \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

вибрация контактов проверена при токах \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

контакты реле замыкали цепь \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, при этом

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| **6.Проверка взаимодействия реле**  **по принципиальной схеме** | | **7. Проверка первичным током** | | | |
| Взаимодействие соответствует принципиальной схеме | Действие  защиты  опробовано  на | Фаза | Ж | З | К |
| Первичный  ток |  |  |  |
|  |  | Вторичный  ток |  |  |  |
| Коэф. тр-ции  тр-ров тока |  |  |  |
| Ток в нуле-  вом проводе | нормально |  |  |
| при  закорочен.  фазе |

**8. Заключение**

Защита исправна и может быть включена на **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Проверку производили\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(подпись, И.О.Ф.)

Протокол проверил **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

(подпись, И.О.Ф.)

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**Изменение схемы уставок, аппаратуры**

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| Дата | Производственные изменения | На основании чего  произведено  изменение | Подписи | |
| Проверявшего | Мастера РЗиА |
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**Проверка электрических характеристик реле**

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| Дата | Вид защиты | Тип реле | Уст уст | Тр. (А)  Ср. (А)  Uср(В) | Возв. (А)  Возв. (В)  Uвозв(В) | К возв | ср. р. отс | Сопрот.  в ОМ |
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