# ABB 1SDA083360R1

## 01 Ekip UP Protect sensor and trip configuration

### 1 Record the Protect-version installation

Save the Protect-unit settings and record current sensor type, rating plug, voltage-transformer ratio and trip interface. Confirm article 1SDA083360R1 and distinguish it from Protect+ or Control+ before selecting functions or restoring a project.

### 2 Keep the article identity with its enabled functions

Confirm article 1SDA083360R1 and the actual Protect settings before restoring a project. Do not assume functions belonging to Protect+ or Control+ are available merely because the units share the Ekip UP family.

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|---|---|
| Record | Complete marking and installed position |
| Comparison | Field labels agree with application assignments |
| Protection version | Ekip UP Protect |
| System voltage | Up to 1150 V |

## 02 Auxiliary power and measurement isolation

### 1 Identify the fitted supply module

Isolate the relevant measurement and auxiliary circuits using the switchgear procedure. Identify the fitted supply module instead of treating the system voltage limit as the auxiliary supply. Check sensor and rating-plug connections before applying test power.

### 2 Separate system-voltage capability from supply input

Verify the auxiliary supply against its fitted module and installation design. The supported system-voltage limit describes the measurement application; it must not be used as the auxiliary power-terminal rating.

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|---|---|
| Supply evidence | Measured at the device connection |
| Work condition | Power isolated while wiring is handled |
| Current application range | 100–6300 A with the selected sensors and rating plug |
| System frequency | 50–60 Hz |

## 03 Sensor polarity and trip-path restoration

### 1 Reconnect phase, neutral and voltage inputs

Restore phase and neutral sensor assignments, voltage inputs and the trip circuit. Verify polarity and scaling at each input. Keep the switching device in a controlled state while checking continuity diagnostics for the sensors, rating plug and trip coil.

### 2 Check the complete path to the opening device

Trace each measurement channel and the trip connection through the installed arrangement. Continuity diagnostics for sensors, rating plug and trip coil complement the wiring check but do not replace proof of the actual opening path.

| | |
|---|---|
| Wiring record | Connection-by-connection comparison |
| Physical inspection | Shield, connector and strain relief checked |
| Operating temperature | -25 to +70°C; maximum +60°C for UL |
| Protection degree | IP40; IP54 with suitable external cover |

## 04 Protection settings and measurement ratios

### 1 Restore thresholds, delays and logger settings

Reapply approved protection thresholds and delays for the Protect version. Restore measurement ratios and data-logger settings. Where Type C precision is used, verify the sensor installation and any VT accuracy requirement rather than assuming the unit-only precision applies to the complete system.

### 2 Preserve sensor and transformer precision conditions

Where Type C measurement precision is required, verify the sensor installation and any voltage-transformer contribution. The unit's accuracy figures do not automatically describe the uncertainty of the complete measurement chain.

| Configuration | Approved settings restored |
| --- | --- |
| Diagnostic condition | Normal recognition before functional testing |
| System current precision | 1% under Type C sensor reference conditions |
| System voltage precision | 0.7% under stated reference conditions |

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## 05 Injection test and opening-chain acceptance

### 1 Compare applied quantities with displayed results

Use an approved injection test to compare displayed quantities with the applied values and to prove the intended protection pickup and delay. Test the actual opening path separately, verify fault records and restore operating permissions only after coordinated acceptance of the complete protection chain.

### 2 Record pickup, delay and opening outcome separately

Use the approved test to distinguish the measured-value result from protection pickup and operating delay. Verify the switching-device opening path independently, then retain the fault record and final restored settings with the acceptance evidence.

Technical basis: ABB Ekip UP Technical Catalogue, 1SDC001051D0201, May 2020.

## Related product navigation

ABB YPC115 61037454

ABB 1SFB536068D1011

These are related references, not confirmed substitutes or an automatically approved assembly.