1SDA073674R1/1SDA073687R1

01 / Scope and release identification

ABB 1SDA073674R1/1SDA073687R1 combines two SACE Emax 2 control references: a YO shunt opening release and a YC closing release, both rated 220-240 V AC/DC.

Two separate operating paths

Opening command	1SDA073674R1 / YO operates the opening function.
Closing command	1SDA073687R1 / YC operates the closing function.
Shared supply range	Both references use 220-240 V AC/DC control power.
Installed frame	Match the complete Emax 2 breaker and accessory arrangement.

Before access to the mechanism

Follow the applicable breaker maintenance procedure for electrical isolation and stored mechanical energy. Isolate relevant main and auxiliary circuits and verify the safe work condition before handling releases or wiring.

Use of this guide

This Apter Power guide organizes identification and acceptance checks. It does not replace the ABB breaker and accessory instructions for mounting, connections, torque or testing.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Pre-installation comparison

Order-code labels	Distinguish 1SDA073674R1 from 1SDA073687R1. Preserve YO and YC in the service record.
Control source	Compare the installed auxiliary supply with each 220-240 V AC/DC label.
Breaker frame	Confirm E1.2, E2.2, E4.2 or E6.2 and the actual breaker execution.
Mounting and terminals	Compare the original and replacement body, connector and mounting arrangement.
Control diagram	Identify the opening and closing paths, interlocks and closing permissives.

Mismatch decision

Resolve a different function, voltage label, physical interface or breaker configuration before proceeding. Equal voltage ratings alone do not establish that opening and closing accessories can be exchanged.

Preserve identification

Record both complete labels and any revision markings. Keep connection photographs and the applicable circuit diagram with the work order.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

03 / Replacement workflow

1 / Establish safe access	Apply the breaker isolation procedure and manage the operating-mechanism stored energy.
2 / Identify each path	Record YO and YC wiring separately before disconnection. Retain conductor and terminal identification.
3 / Compare the accessory	Check the replacement function, order code, voltage marking and mechanical interface.
4 / Restore the circuit	Follow the applicable mounting instructions and reconnect the approved control path.
5 / Inspect before testing	Check securing, conductor routing, connector seating and the restored interlocks.

Function-specific installation

Fit the opening release to the opening function and the closing release to the closing function. Do not infer terminal assignment from physical similarity or from a matching voltage range.

No undocumented adjustments

Use the installed breaker instructions for mechanical checks and electrical testing. Do not bypass a permissive or change protection settings to compensate for an installation mismatch.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

04 / Functional acceptance

Auxiliary circuit check	Confirm the correct control source and restored conductor identification before energization.
Opening check	Test the YO opening command under the approved commissioning sequence and verify the intended response.
Closing readiness	Verify charged closing springs and a breaker ready-to-close condition before applying YC.
Closing check	Test YC separately and verify the mechanism response and relevant interlocks.
Release decision	Resolve abnormal behavior, record fitted codes and retain the accepted test results.

When a close command is inhibited

Review spring-charge state, breaker position, interlocks, permissives and the control circuit before replacing the release again. Do not repeatedly force a closing command.

Control rating versus power rating

The accessory supply range does not establish breaker load current, main-circuit voltage or interrupting capacity. Retain the breaker ratings and approved protection configuration.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

05 / Maintenance and handover

Wrong operating response	Recheck YO versus YC identification and the corresponding command wiring.
No closing response	Review charged springs, ready-to-close state, control supply and permissives under the breaker procedure.
Repeated accessory trouble	Investigate the control circuit and operating mechanism before returning equipment to service.

Technical basis

ABB SACE Tmax T/ML, Emax 2/ML Technical Catalog, 1SDC007907D0201 (November 2019); SACE Emax 2 Technical Catalog, 1SDC200039D0204 (January 2019).

Related ABB electrical references

ABB 1SDA073700R1

ABB 1SDA073674R1

ABB 1SDA073687R1

Navigation only. The separate opening, closing and undervoltage-release references are not interchangeable functions.

Service record

Keep both fitted order codes, labels, connection records and accepted opening/closing results with the breaker maintenance history.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.