ABB 1SDA051266R1

Complete Product Information

ABB 1SDA051266R1 is a SACE Tmax T3S three-pole molded-case circuit breaker with a fixed 125 A thermomagnetic trip unit. Its 50 kA rating and required T3 front terminals define the offered switching device and connection arrangement.

01 Product identity and verified data

Complete model	1SDA051266R1
Product type	three-pole thermomagnetic molded-case circuit breaker
Manufacturer	ABB
Technical source	ABB SACE Tmax T Generation Technical Catalogue, 1SDC210015D0208
Breaker family	SACE Tmax T3S
Number of poles	3
Trip technology	Thermomagnetic
Rated current	125 A
Breaking capacity	50 kA, catalogue table value
Connection requirement	Front connection terminal sets required for T3 outgoing devices

Engineering purpose

This article number identifies the complete T3S outgoing breaker selection, not a loose trip unit; pole count, frame, rating and terminal hardware must be checked together.

Selected order-code snapshot

Switching identity	T3S molded-case breaker; three poles; fixed 125 A thermomagnetic release.
Interruption value	50 kA catalogue selection for the stated T3S article.
Installation dependency	Use the specified T3 front-terminal set and verify panel clearances.

02 Technical capability and engineering overview

Switching identity	T3S molded-case breaker; three poles; fixed 125 A thermomagnetic release.
Interruption value	50 kA catalogue selection for the stated T3S article.
Installation dependency	Use the specified T3 front-terminal set and verify panel clearances.

Evidence boundary

The ABB catalogue table identifies 1SDA051266R1 as a T3S three-pole thermomagnetic 125 A breaker with 50 kA breaking capacity and notes the front-terminal requirement for T3 outgoing devices.

Engineering overview

The thermomagnetic release provides overload and short-circuit response without an electronic trip configuration file. Acceptance therefore focuses on the exact frame, fixed current marking and mechanical condition.

The 50 kA catalogue value must be applied within the voltage and installation conditions of the selected switchboard design; it is not a universal site fault-current statement.

ABB calls for front connection terminal sets on the referenced T3 outgoing arrangement. Confirm the offered unit includes or is paired with the required terminal hardware.

Application map

Outgoing feeder protection

Apply on a three-phase feeder whose design current and prospective fault level match the T3S selection.

Motor branch isolation

Use only with separately coordinated motor protection and contactor equipment.

Distribution-panel retrofit

Check cutout, bus spacing, terminal orientation and upstream discrimination before exchange.

Fixed-load circuit protection

Confirm conductor size and thermal setting assumptions against the fixed 125 A release.

03 System interpretation and selection boundaries

Product boundary	Apply the listed facts to 1SDA051266R1 and the documented SACE Tmax T3 molded-case circuit breaker family context only.
Interface boundary	Connector, terminal, bus, cable and companion-device assignments must match the installed drawing.
Electrical boundary	Use exact-model values only; system-level ratings remain conditional on the complete installed configuration.
Configuration boundary	Switches, jumpers, addresses, firmware and project settings must be reconciled before energization.
Diagnostic boundary	Interpret indicators and fault states together with measured inputs, outputs and host-system status.
Acceptance rule	Use the approved system baseline and maintenance procedure for the final as-left decision.

Installed-system context

Use 1SDA051266R1 only where the panel drawing calls for a T3S three-pole 125 A thermomagnetic breaker and its required front connection arrangement.

04 Lifecycle, offered scope and related references

Lifecycle status

Article identity	1SDA051266R1 maps to the T3S three-pole 125 A thermomagnetic selection.
Connection boundary	T3 front-terminal hardware is part of the installation decision.
Coordination dependency	System voltage, fault level and protective-device selectivity remain project data.
Replacement gate	Withhold installation if frame, poles, release or terminal set differ from the panel record.

Available unit details

Included unit	T3S three-pole breaker with fixed thermomagnetic release.
Buyer checks	Request article label, 125 A marking, pole faces, mechanism and terminal photographs.
Separate items	Front terminal set, auxiliaries, mounting hardware and bus adapters are separate unless itemized.

Source and applicability record

Verified source	ABB SACE Tmax T Generation Technical Catalogue, 1SDC210015D0208
Applicability boundary	The ABB catalogue table identifies 1SDA051266R1 as a T3S three-pole thermomagnetic 125 A breaker with 50 kA breaking capacity and notes the front-terminal requirement for T3 outgoing devices.
Product family	SACE Tmax T3 molded-case circuit breaker family

Additional related product references

Related product	ABB ZINT-571 3AUA0000077333
Related product	ABB CI858K01 3BSE018135R1
Related product	ABB PM511V16 3BSE011181R1
Related product	ABB BCU-12 3AUA0000110430

Product-specific purchasing decisions

Which breaker family does 1SDA051266R1 identify?	It identifies an ABB SACE Tmax T3S molded-case circuit breaker.
How many poles are fitted to 1SDA051266R1?	The catalogue article is a three-pole device.
What current rating is listed for 1SDA051266R1?	The thermomagnetic trip unit is rated 125 A.
What breaking-capacity value is listed for 1SDA051266R1?	The referenced catalogue table gives 50 kA under its stated selection conditions.
Does 1SDA051266R1 use an electronic trip unit?	No. The selected article is thermomagnetic.
Which connection hardware is required for 1SDA051266R1?	ABB notes front connection terminal sets for the T3 outgoing arrangement.

Engineering contact

Discuss the exact marking and installed application with Apter Power.
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