

**INDUSTRIAL COMPONENT DATA**

# 1SAZ431301R1001 ABB TF140DU-90-V-1000 Thermal Overload Relay

Brand: ABB | Manufacturer Part Number: 1SAZ431301R1001



|                 |                        |
|-----------------|------------------------|
| Manufacturer    | ABB                    |
| MPN / Reference | 1SAZ431301R1001        |
| Catalog number  | 431301                 |
| Category        | Thermal overload relay |
| Minimum order   | 1 Pcs                  |
| Document ID     | EO-4DA62F1D36          |
| Generated       | 2026-08-05             |

## Product Overview

TF140DU-90-V-1000 Thermal Overload Relay  
TF140DU-90-V-1000 V.ATEX OVERLOAD RELAY  
TF140DU-90-V1000 Thermal Overload Relay 66 ... 90 A

**STRUCTURED PRODUCT DATA**

## Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

## Classification & Catalog Path

|              |                                                       |
|--------------|-------------------------------------------------------|
| Catalog path | ABB > Contactors and overload relays > Thermal Relays |
|--------------|-------------------------------------------------------|

## Additional Product Information

### Ordering

Minimum Order Quantity 1 piece  
Customs Tariff Number 85364900

### Popular Downloads

Data Sheet, Technical Information 2CDC106061D0201  
Instructions and Manuals 2CDC106050M6802  
Instructions and Manuals (Part 2) 1SAC200017M0002  
Ex Operating Instructions 2CDC106082M6801  
CAD Dimensional Drawing 2CDC001079B0201  
Dimension Diagram 1SAZ400404F0001

### Dimensions

Product Net Width 89 mm  
Product Net Height 140 mm

Product Net Depth / Length 126 mm

Product Net Weight 0.82 kg

Technical

Setting Range 66 ... 90 A

Rated Operational Voltage Auxiliary Circuit 440 V DC

Auxiliary Circuit 500 V AC

Main Circuit 690 V AC

Main Circuit 440 V DC

Rated Operational Current (Ie) 90 A

Rated Frequency (f) Auxiliary Circuit 50 Hz

Auxiliary Circuit 60 Hz

Auxiliary Circuit DC

Main Circuit 60 Hz

Main Circuit 50 Hz

Main Circuit DC

Rated Impulse Withstand Voltage (Uimp) Auxiliary Circuit 6 kV

Main Circuit 8 kV

Rated Insulation Voltage (Ui) 690 V

Number of Poles 3P

Number of Auxiliary Contacts NC 1

Number of Auxiliary Contacts NO 1

Number of Protected Poles 3

Conventional Free-air Thermal Current (Ith) Auxiliary Circuit NC 10 A

Auxiliary Circuit NO 6 A

Rated Operational Current AC-15 (Ie) (120 V) NC 3 A

(120 V) NO 1.5 A

(240 V) NC 3 A

(240 V) NO 1.2 A

(400 V) NC 0.75 A

(400 V) NO 0.37 A

(440 V) NC 0.75 A

(440 V) NO 0.37 A

(500 V) NC 0.3 A

(500 V) NO 0.25 A

Rated Operational Current DC-13 (Ie) (125 V) NC 0.25 A

(125 V) NO 0.25 A

(24 V) NC 1.25 A

(24 V) NO 1.25 A

(250 V) NC 0.12 A

(250 V) NO 0.04 A

(60 V) NC 0.25....

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send ABB / 1SAZ431301R1001 with the required quantity to [info@electricaonline.com](mailto:info@electricaonline.com) or use [electricaonline.com/request-quote](https://electricaonline.com/request-quote).

### GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

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