# Maintenance-Free. Reliable. Cost-Effective.

## High DC switching made simple

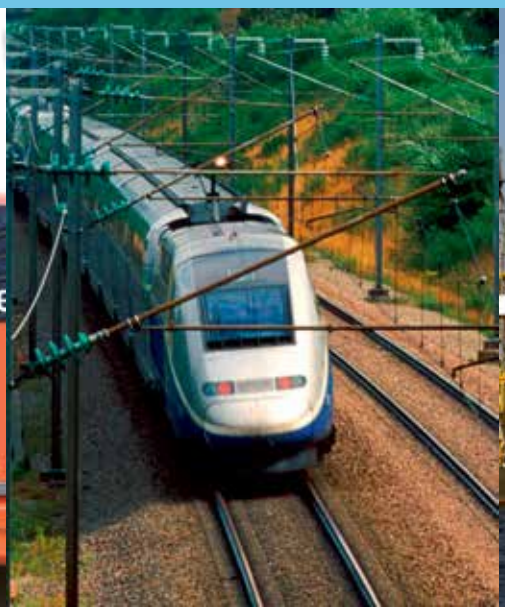






DC contactors
in current range 300 A and 600 A





EATON
*Powering Business Worldwide*











**Maintenance free**

# Save time and costs with our DC-contactors




## Efficient and compact

- With up to 150,000 operations, these units have a lifespan that is six times longer than that of comparable devices
- No maintenance costs, resulting in lower operating costs
- Lower switching contact wear as a result of extremely short arcing times
- Convenient to switch on and off: either conventionally or directly with a programmable logic controller (PLC)
- Compact frame size designed to save space
- Very short opening and closing times of main contacts

## Reliable and flexible

- Wide control voltage range of 110 V – 250 V AC, 110 V – 350 V DC
- Bi-directional operation (polarity insensitivity) ensures ease of use
- Wide temperature range of -40 °C to +70 °C
- Globally certified: UL, CSA, CCC, DNV

## Ideal for a large variety of applications

- Rail traffic
- Marine & Offshore
- Energy storage
- Automotive charging infrastructure
- DC grids

## Designed for industrial use

- Universal concept
- Fast and easy to install thanks to tried-and-true terminal types
- Based on Eaton's well-known contactor technology

# Clever use of a proven technology

Thanks to the use of proven hybrid technology, the contacts in Eaton DC contactors have a long lifespan and low contact wear. Hybrid contactors feature two mechanical contacts – an extinguishing contact and a break contact – that are connected in series.

Moreover, they have an IGBT power semiconductor switch connected in parallel with the extinguishing contact. When one of these contactors is switched off, the first thing that happens is that the IGBT is switched on. After this, the extinguishing contact opens mechanically, commutating the current to the IGBT so that it can be interrupted by the power electronics. Finally, the break contact is opened in a de-energized state, achieving the required potential isolation.

Together with this configuration, a wide-range coil for DC and AC voltages makes our DC contactors a maintenance-free and reliable part of any machine or system.

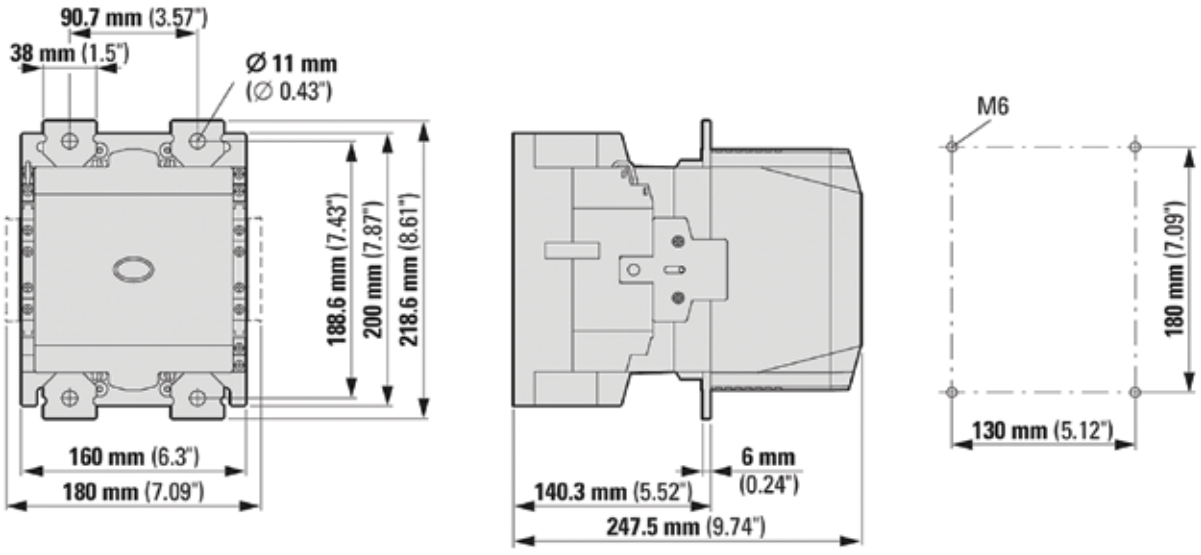
## Ordering Information

| Description | Part no. | Article no. |
|---|---|---|
| DILDC300/22(RDS250) | DC-1 contactor 300A/1000V | 183314 |
| DILDC400/22(RDS250) | DC-1 contactor 400A/1000V | 186872 |
| DILDC500/22(RDS250) | DC-1 contactor 500A/1000V | 186873 |
| DILDC600/22(RDS250) | DC-1 contactor 600A/1000V | 183315 |

## Technical Specifications

| Model series | DIL DC300 | DIL DC600 |
|---|---|---|
| Rated thermal current $I_{th}$ | 300A | 600A |
| Utilization Category | DC-1 | |
| Voltage type | DC (bi-directional) | |
| Rated Voltage | 1000 V | |
| Actuating voltage | 110 V -30% to 250 V AC +15%<br>110 V -30% to 350 V DC +15% | |
| Main contacts: number / type | 2 normally open contacts (NO) | |
| Auxiliary contacts: number / type | 2 normally open contacts (NO),<br>2 normally closed contacts (NC) | |
| Operating frequency | 100/h | |
| Ambient air temperature | -40 °C to +70 °C | |
| Electrical lifespan | 0.15 x 106 switching operations | |
| Mechanical lifespan | 1 x 106 switching operations | |
| Dimensions [mm] (H/W/D) | 200/160/247.5 | |
| Weight [kg] | 7.5 | |
| Standards & Regulations | IEC/EN 60947-4-1 VDE0660, UL CSA, CCC, DNV | |

## Dimensions



Eaton is an intelligent power management company dedicated to protecting the environment and improving the quality of life for people everywhere. We make products for the data center, utility, industrial, commercial, machine building, residential, aerospace and mobility markets. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power - today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy sources, helping to solve the world's most urgent power management challenges, and building a more sustainable society for people today and generations to come.

For more information, visit **www.eaton.com**

Eaton addresses worldwide: **Eaton.com/contacts**




To contact us please visit https: **//www.eaton.com/contacts**
For technical questions please contact your local Eaton team.

For more information, visit
**Eaton.com/DILDC**

**Eaton**
EMEA Headquarters
Route de la Longeraie 7
1110 Morges
Switzerland
Eaton.com

**Electrical Sector**
Eaton Industries GmbH
Hein-Moeller-Str. 7–11
53115 Bonn
Germany

The products, information and prices contained in this document are subject to change. The same is true for any errors or omissions. Only the order confirmation and the technical documentation received from Eaton are binding. Photos and illustrations are indicative only and do not serve as proof of any appearance or functionality. Their use in any form must be approved in advance by Eaton. The same applies for brand names (in particular Eaton, Moeller, Cutler-Hammer, Cooper and Bussmann). Eaton's terms of sale, as published on Eaton's websites and included with order confirmations received from Eaton, apply.

© 2021 Eaton
All Rights Reserved
Publication No. BR034002EN
September 2026

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Powering Business Worldwide

**Follow us on social media to get the latest product and support information.**