



**EMCOMP**  
CIRCUIT PROTECTION TO RELY ON

# A winning concept for circuit protection and connection technology



# Emcomp – Your Supplier

It is our employees that make Emcomp more than a regular supplier. Their skills and service dedication is one of the reasons why our customers stay with Emcomp.

Emcomp's CBI hydraulic-magnetic circuit breakers provide better protection and more precise breaking. They reduce energy consumption and extend the life of the power application.

*Emcomp provides circuit protection and connection technology solutions which can be adapted for specific customer needs*

Andreas Anselmius MD



# Consistently reliable functionality regardless of ambient temperature

Emcomp's circuit breakers are characterised by their compact size and their reliability. Rated current is maintained in all situations, even when the ambient temperature is exceptionally high. Your equipment will be free from stoppages while also providing optimal protection against overload and short circuit.

Several of the product benefits originates from the hydraulic-magnetic design of the circuit breakers. Thanks to low internal resistance, the energy loss is reduced compared to traditional thermal magnetic circuit breakers with bi metal strip.

## New more compact design

The module size of the circuit breakers follow a new standard: 13mm, instead of 18mm. You can fit 30% more distribution points in the same space compared to traditional circuit breakers.

## Low operating costs and eco-friendly profile

With several distribution points in a small form factor and resistance to high temperatures, you achieve space saving circuit protection with maximum safety. In addition, the low levels of energy loss enable lower operating costs and a more eco friendly profile. Benefits such as these have made Emcomp's circuit breakers a natural choice in many application areas.

### MCBs for battery applications

Emcomp has what is probably the best battery breaker programme in the market, satisfying more or less every conceivable need. Our battery breakers are very compact, with a high breaking capacity and, naturally, excellent heat tolerance. If you need busbar systems, paralleling solutions or mounting systems you will have a strong partner in Emcomp.



## Manufactured by CBI Electric

Emcomp's circuit breakers are made by CBI Electric. The South African industry group develops technically perfect circuit protection that is a safe choice for Emcomp's customers. Our partnership with CBI Electric means that Emcomp is now large enough to deal with the market leaders, while we retain our small scale operations that enable us to work in close collaboration with our customers and customise our regular product range to suit their needs.



## Common application areas

As a customer of Emcomp, you have access to reliable circuit protection that is energy efficient, maintenance free and can tolerate high ambient temperatures. You get a solution that provides better protection for circuits with more precise breaking.

If none of our standard products are appropriate for your application, we will customise a solution for you.

Emcomp's application engineers have the skill to develop customised circuit protection in the most effective manner possible. We present our most common application areas here.

### Telecom

This is where it all started.

Emcomp has been supplying circuit protection to leading telecom companies across the globe for many years. Our hydraulic-magnetic circuit breakers have an MTTF of thousands of years and are commonly used in radio base stations and telecom cabinets. One of the challenges in the telecom industry is finding compact components. In many instances you must fit several circuit breakers into a very limited space. The Q series from CBI is only 13mm wide and will allow you to fit >30% more distribution points on a DIN rail compared to standard 18mm wide products.

Emcomp's hydraulic-magnetic circuit breakers comply with numerous international standards. For example IEC EN (Europe), UL (America) and CCC (China). In addition, many products also have other niche approvals.



A background image for the Renewable Energy & Energy Storage section showing solar panels in the foreground and wind turbines in the distance under a cloudy sky. A black circuit breaker with a white label and a green terminal is shown in the top right corner.

## Renewable Energy & Energy Storage

Renewable Energy is a fast growing area. New, smart energy saving technology that reduces CO<sub>2</sub> emissions requires circuit protection of the same standard. Emcomp provides energy efficient circuit breakers that will reduce operating costs. They form an integral part of future energy solutions. We have an excellent range of dedicated DC MCBs for use in energy storage applications. Now also available with remote control- the Remote Actuation Unit (RAU).

A background image for the Data Center section showing rows of server racks in a data center with blue and white lighting. A white circuit breaker is shown in the top right corner.

## Data Center

The trend within both datacom and telecom is to shift from 48 VDC and AC systems to 380 VDC systems to minimize energy losses and simplify system design. Here is the new developed Y-Frame series playing an important role. It is a MCB dedicated to handle high DC voltage, currently up to 600 VDC in a very compact form factor. As all our circuit breakers it is hydraulic-magnetic and with that generates less heat and losses compared to a traditional circuit breaker. For you, this means less heat problems in your application and more efficient design.

A background image for the Rolling Stock & Signaling section showing a railway track with overhead power lines and a red signal light. A grey circuit breaker is shown in the top right corner.

## Rolling Stock & Signaling

Vibrations, dust, moisture and temperature differences are constant factors in rail transport and signaling systems. Emcomp provides rolling stock and infrastructure with effective and reliable circuit protection that always stays on track.

A background image for the Marine & Offshore section showing an offshore oil rig at sea during sunset. A blue and black circuit breaker is shown in the top right corner.

## Marine & Offshore

Among Emcomp's products, you will find a complete range of safe circuit breakers for all marine settings, from ships to oil rigs. The small size of the breakers means that they can be installed where space is very limited. In combination with our patented protection boots, they protect against moisture, dust and other harsh environmental conditions.

# Wide product range

In addition to circuit breakers, Emcomp provides other related products such as earth leakage products, main switches and connectors. We also develop customised circuit protection and current distribution solutions for circuit breakers, as well as providing reliable connection technology.

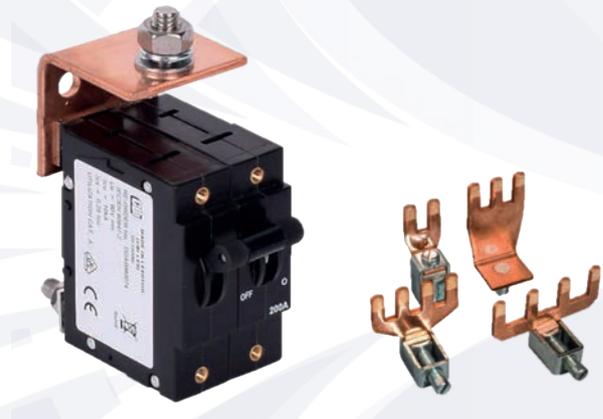
## We can assist with customised solutions

What distinguishes Emcomp is that we frequently develop customised solutions. Certain applications have special requirements and the most appropriate product may yet have to be developed. Our application engineers are the key to our commitment to safety, both for Emcomp and for our customers. You get an efficient solution that is also tailor made for your application.



## We have the connections

Emcomp's technicians play a key role in developing systems for current distribution. It involves standard busbars, but also advanced mechanical designs that are tailor made for each customer. The products are only released into the market after careful design and manufacturing as well as rigorous testing.



## If you need cables connected to the breakers

Many of our customers' applications require cable assemblies of various types. Emcomp has a complete range of cable assemblies up to wire gauges of 90 mm<sup>2</sup>.



## Additional service with packaging and labeling

As an additional service, Emcomp offers special packaging and labeling based on customer's demand.



# We assist you in your international expansion

Our head office is located in Sweden, but Emcomp also has sales offices in Altomünster, Germany and Guangdong, China. We develop systems that support global logistics flows, and for larger manufacturing customers, we work with consignment stocks.

The geographic conditions for global sales and support are ideal and we are commissioned by companies worldwide. As your company grows, Emcomp will accompany you in your geographic expansion.

## Our employees provide added value

We say that it is our employees that make Emcomp more than an ordinary supplier. Everyone from sales managers and application engineers to support staff and warehouse personnel have important roles in improving the circuit protection and connection technology of our customers. In terms of number of employees, we are a small company, something that enables fast decision making and a personal touch for our customers.



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and connection technology

**Emcomp** is a part of Addtech Group as one of 130 subsidiaries. The group has an annual turnover of 1 billion EURO and more than 3000 employees. Emcomp belong to the Power Solution business area that focus on battery solutions, power distribution products and products for electrical safety. The customer base consists of many OEM companies in the energy and telecom sector as well as commercial vehicles industry.

[www.emcomp-international.com](http://www.emcomp-international.com)



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