

Motor control panel for synchronous motors

MCP400 series



ABB offers a new generation of motor control panels for direct-on-line synchronous motors. The MCP400 features precise motor control and protection, a touch screen control panel for easy access to operating data and remote connection to ABB experts for fast support and troubleshooting.

The MCP400 features an intuitive Human Machine Interface (HMI)

MCP400 motor control panel

The MCP400 series is a new generation of motor control panels (MCPs) for direct-on-line operated synchronous motors from ABB and other manufacturers. It comprises the latest communication interface and motor control technology which manages excitation equipment, start logic, control and protection functions.

HMI gives easy access to operating data

The MCP's touch screen provides an advanced interface for easy access to operating data and clear user supervision. Its log functions enable post-fault analysis and trend presentation of operational data.

Remote support for fast troubleshooting

ABB experts can connect to the MCP and provide remote support during commissioning or troubleshoot a failure without having to travel to site, saving time and expenses.

The perfect fit for every installation

The MCP400 is supplied in standard dimensions. Customized dimensions and a wide range of options are available to provide the optimal solution for each installation.

Key benefits



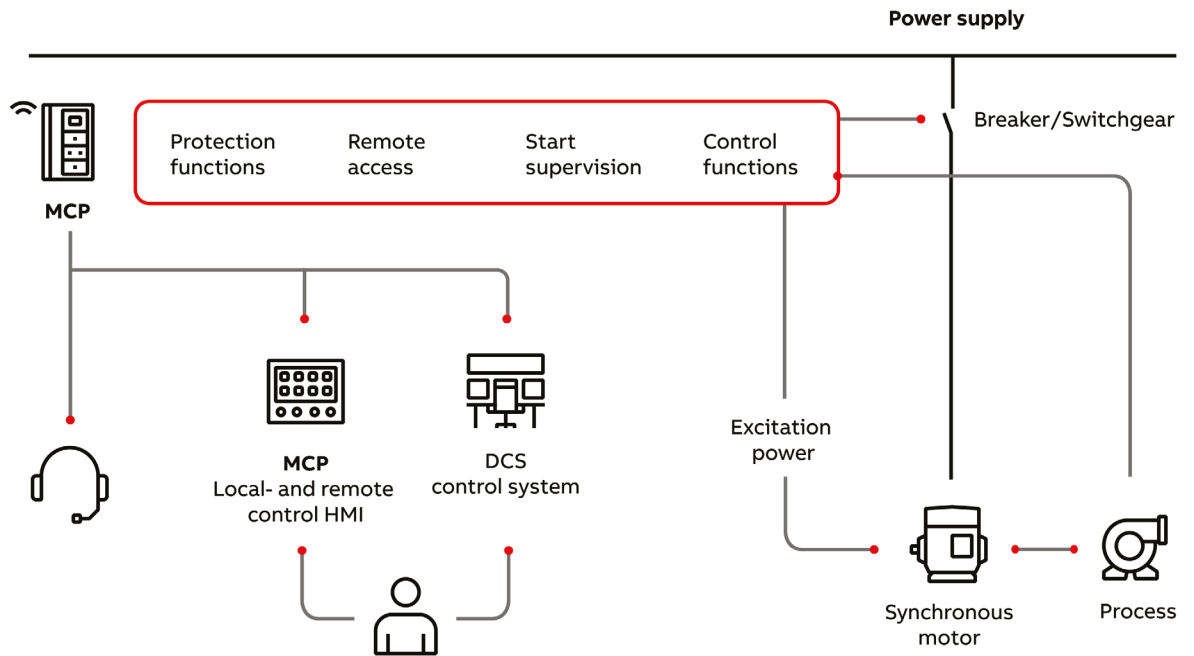
Higher uptime

- Latest MCP technology ensures that synchronous motor operates at optimum performance
- MCP model with full redundancy ensures maximum availability
- Fast troubleshooting with remote support



Efficient upgrade

- Solution is customized to exactly fit an existing system
- MCPs are fully tested prior to delivery, minimizing downtime for installation and commissioning
- Turn-key project with training and complete life-cycle services



MCP functions and operating process

Two standard versions of the MCP400 series are offered.

MCP410

A PLC-based, classic single-channel MCP that meets the basic needs of motor control applications that can be fitted with a DC/AC exciter.

MCP430

A PLC-based, dual channel MCP with two automatic voltage regulators (AVRs) to optimize availability. This dual-AVR arrangement means that a single AVR related fault is immediately cleared and costly downtime is avoided. Redundancy covers all main components and supports with two separate power supplies.

MCP410



MCP430



For more information, please contact your local ABB representative or visit:

new.abb.com/motors-generators/service

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB Ltd does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained herein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in part – is forbidden without prior written consent of ABB Ltd. Copyright © 2021 ABB. All rights reserved.