

PRODUCT DATA SHEET



MOVEKET ID8 Series

MPC 4ID8 Motion Power Controller

Standalone and compatible with MRC 4/8/12/16/24/32ED8, MRC RF 8/24/32 Remote Controllers, and KES-Motion Control Panels. DC and RC (low voltage) variants according to DGUV V54 (formerly BGV D8+) and SQ P2 D8 Plus

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The intelligent processor-controlled Motion Power Controller is a state-of-the-art motor controller for chain hoists, specially developed for the demanding requirements of stage and event technology. It enables precise load monitoring and control as well as position monitoring and control, ensuring optimal safety and efficiency during operation.

One of the outstanding features of this controller is the group operation and control, allowing the user to operate and monitor multiple chain hoists synchronously. The controls are user-friendly, featuring an emergency stop button and direct access buttons for changing movement direction.

The controller integrates seamlessly into MRC and KES-Motion platforms for easy programming and operation and has an LCD display that shows crucial device data such as positioning, load, and error messages. The bypass switch facilitates service work and allows for emergency control under load.

The controller supports four direct or low-voltage controlled three-phase drives and offers comprehensive monitoring of input power. It is equipped with a motor circuit breaker per channel and meets safety requirements according to DIN VDE 0113 Part 1 (DIN EN 60204-1). The operating power is a maximum of 0.75 / 2.2kW (depending on configuration) per motor.

For connections, there are phase-reversible inputs for 16A/32A CEE and outputs via multi-pole socket HAN 16E / Socapex 19-pin EU version. Additionally, the device includes XLR 6p and XLR 7p link plug connectors and an I-Net input/C14FC.

The controller is compatible with various motion remote controls such as the MRC 4/8/12/16/24/32ED8, MRC RF 8/24/32, and MRC ID or the KES-motion control panels and can be scaled with KES-motion network devices.

The device is housed in a 19-inch, 3 RU large, durable metal enclosure, features two handles for easy handling, and meets CE certification standards when used as part of a complete MOVEKET system.

1. Features:

- **Load monitoring and control:** Ensures precise control and safety.
- **Position monitoring and control:** Allows accurate positioning of loads.
- **Group operation and control:** Enables grouping of multiple chain hoists.
- **Direct access buttons:** Standalone operation for island solutions including an emergency stop button for added safety.
- **Data input for programming and operation:** Simplifies settings and adjustments.
- **Bypass switch:** For service work and underload control.

Key-Feature	Beschreibung
Control and Monitoring	Up to four electric chain hoists or customized asynchronous three-phase drives
Control Modes	Direct-Control (400V AC) or Remote-Control/Low-Voltage (24V DC)
Self-Test	Testing relevant functions before system start
Design	Night design with illuminated buttons, input devices and LCD display
Operation	Simple and intuitive, basic functions without complicated configuration
Monitoring	Operating conditions such as voltage, phase position, circuit breakers, direction of travel, link system, position, operational and emergency states, temperature, load
Encoder Operation	Checking of travel direction and target speeds
Parameter Selection	Selection of MOVEKET hoist parameters from database
Drive Group Management	Management and error monitoring in drive groups
Operating Limit Positions	Input of software limit positions for lifting and lowering
Calibration	Simple encoder reference travel
Group Drives	Path-synchronous and group-synchronous rides with programmable tolerances
Target Drives	Execution of specific targeted destinations
Overload Detection	Supplementary overload detection and simple setup options for load limits
Service Drives	Support for targeted service rides with bypass switch
Memory Function	Retention of all parameters even in case of power failure

2. Technical Specifications:

- **Display:** Backlit LCD display shows position, load, error messages, and system status.
- **Controls:** Illuminated buttons and encoders, E-Stop button, GO button, and function keys for direct selection and operation.
- **Safety and Monitoring:** Four adjustable motor circuit breakers, voltage and phase control display, in accordance with DIN VDE 0113 Part 1 (DIN EN 60204 1).
- **Compatibility and Networking:** Compatible with MRC 4/8/12/16/24/32ED8, MRC RF 8/24/32, MRC ID, and KES-Motion control panels; I-Motion network input, expandable to up to 60 devices.
- **Additional Features:** Eight digital inputs and four outputs for functions such as limit switches; high-resolution rotary encoder and load cell input for precise control.
- **Housing and Mobility:** Robust metal housing with two carrying handles, main switch with bypass function for central commissioning.

3. Technical Data:

- **Housing:** 19 inch, 3 RU, D 470 mm, robust metal with two handles.
- **Weight:** 16.4kg (16.6kg HP version).
- **Input:** 16A/32A CEE 5-pin with phase reversal plug.
- **Link:** XLR MX7 and XLR FX6 M-Link system incl. termination blanking plug.
- **Output:** Multi-pole socket HAN 16E or 19-pin EU Socapex.
- **Load measurement system input:** SUB-D15 female.
- **I/A-encoder input:** SUB-D25 male.
- **I/O inputs and outputs:** SUB-D25 female.
- **KES-Motion-Network:** NDC-C14FC input plug.
- **MRC input plug:** HAN 36 modular.
- **Conformity:** CE certification (when used in the complete MOVEKET system).

4. Model Types:

Model	Motor current setting range	Motor power	Plug type
MPC 4ID8-LP-DC/RC	1,6 to 2,5 A	0,37 to 0,75 KW	CEE 16 A/5-pol Phase reversal plug
MPC 4ID8-SP-DC/RC	2,5 to 4,0 A	0,75 to 1,5 KW	CEE 16 A/5-pol Phase reversal plug
MPC 4ID8-HP-DC/RC	4,0 to 6,3 A	1,5 to 2,2 KW	CEE 32 A/5-pol Phase reversal plug
MPC 4ID8-HPI-DC/RC	6,3 to 10 A	2,2 to 3,0 KW	CEE 63 A/5-pol Phase reversal plug

5. Accessories:

- MRC D8 Series Remote Controllers.
- KES-Motion Controller Series.
- Transport case.