

MOVECAT MPC 4/8ED8 Motion Power and MRC 4/8/12/16ED8 remote controllers (DC and RC model) Compliant with BGV D8 and igvw SQ P2 D8 Plus



The Motion Power and Motion Remote Controllers of the E-series in direct control 400 V AC or remote control 24 V DC version have for years represented the defacto industry standard in the field of asynchronous BGV D8 and igvw SQ P2 D8 Plus 400 V AC rotary current drives and in particular chain hoists such as those of Movecat's Eco, Plus, Compact, Ecolite, Pluslite and Plus-C series. The robust, respectively 3U or 6U MPC metal housings contain all the contactor switches, safety circuits, under-voltage-, phase- and rotary-field-supervision circuitry and main control switches required for operation, as well as, for each channel,

an individually adjustable motor protection switch. The operation is performed from a detached remote unit belonging to the MRC ED8 series for 4, 8, 12 or 16 drives. The E-Controller system forms the foundation for Movecat's M-Link system by means of which up to eight MPC controllers forming an integrated network can be centrally controlled and supervised. The integrated safety elements are arranged sequentially to form a 'safety chain', so that any operating failure (such as the tripping of a motor protection switch) leads automatically to all the drives connected via M-Link coming to a stop. Furthermore, the runs of all

linked MPC controllers can be activated centrally even if a variety of MRC units are being used. The operating status is indicated by LED signal elements on the front panel. The controllers comply with the EN 60204-32 and EN 13849-1 standards as well as VDE 0113 and are suitable for the control of lifting gear in accordance with the guidelines set out in BGV D8 and igvw SQ P2 D8 Plus, with which they comply in every respect. Typical fields of application include rigging applications in the touring sector and as a setting-up aid for professional events and trade fair applications.



FEATURES:

- MPC 4/8ED8
- simple, intuitive operation
- controls and supervises, in conjunction with MRC remote units, up to 4 or 8 hoists respectively, including Eco, Ecolite, Compact, Plus, Pluslite or Plus-C or else asynchronous three-phase drives (400 V / 50 Hz)
- direct control 400 V AC or remote control 24 V DC
- conforms with EN 60204-32, EN 13849-1 and VDE 0113
- implementation according to BGV D8 and igvw SQ P2 D8 Plus
- self-testing of relevant functions prior to system enabling

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Technical equipment:

MPC 4/8ED8

- main control switches lockable
- four or eight adjustable motor protection switches respectively
- under-voltage-, rotary-field, -symmetry- and phase-supervision module
- phase control and error display
- LED channel indicator for raising and lowering
- LED indicator for run-enabled (GO)
- M-Link function for up to eight controllers of the E, I and T series (even in mixed operation)
- robust metal housing with two handles
- CEE 5-pin phase-changing plug with 1.5 m H07RN-F connector cable 400 V/3 P/16 A or 32 A CEE with phase-changing plug. High-power devices with 400 V/3 P/63 A cable plug.
- HAN 16-E multi-contact plug-in connector, 16-pin at DC models and 24-pin at RC models (every four motor outputs), optional 19-pin EU-Socapex compatible plug-in connector (DC models)
- Multipin input connector for MRC devices; if desired, the 4/8/12/16 MRC remote controllers can be plugged directly into an MPC 4/8ED8 controller; direct operation of the number of drives of the MPC controller
- RCD 40A/30 mA circuit breaker (optional for MPC 8ED8)

Technical data:

MPC 4/8/ED8

- dimensions:
MPC 4ED8, 19", 3U, D 410 mm (without plug-in connector)
MPC 8ED8, 19", 6U, D 410 mm (without plug-in connector)
- weight:
17.6 kg, MPC 4ED8
32.7 kg, MPC 8ED8

Technical data:

MRC 4/8/12/16ED8

- dimensions:
MRC 4ED8: 135 x 292 x 115 mm (W x L x H)
MRC 8ED8: 135 x 292 x 115 mm (W x L x H)
MRC 12ED8: 135 x 370 x 115 mm (W x L x H)
MRC 16ED8: 240 x 292 x 115 mm (W x L x H)
- weight:
MRC 4ED8: 2.5 kg
MRC 8ED8: 2.8 kg
MRC 12ED8: 3.8 kg
MRC 16ED8: 4.0 kg
(without connector cable)

Versions MPC 4ED8 (DC and RC model):

- MPC 4ED8-LP-DC/RC** (adjustable range 1.6 to 2.5 A motor current consumption, 0.37 to 0.75 kW motor capacity), CEE 16 A/5-pin phase-changing plug
- MPC 4ED8-SP-DC/RC** (adjustable range 2.5 to 4.0 A motor current consumption, 0.75 to 1.5 kW motor capacity), CEE 16 A/5-pin phase-changing plug
- MPC 4ED8-HP-DC/RC** (adjustable range 4.0 to 6.3 A motor current consumption, 1.5 to 2.2 kW motor capacity), CEE 32 A/5-pin phase-changing plug
- MPC 4ED8-HP1-DC/RC** (adjustable range 6.3 to 10 A motor current consumption, 2.2 to 3.0 kW motor capacity), CEE 63 A/5-pin cable plug

Versions MPC 8ED8 (DC and RC model):

- MPC 8ED8-LP-DC/RC** (adjustable range 1.6 to 2.5 A motor current consumption, 0.37 to 0.75 kW motor capacity), CEE 16 A/5-pin phase-changing plug
- MPC 8ED8-SP-DC/RC** (adjustable range 2.5 to 4.0 A motor current consumption, 0.75 to 1.5 kW motor capacity), CEE 32 A/5-pin phase-changing plug
- MPC 8ED8-HP-DC/RC** (adjustable range 4.0 to 6.3 A motor current consumption, 1.5 to 2.2 kW motor capacity), CEE 63 A/5-pin cable plug

Technical equipment:

MRC 4/8/12/16ED8

- emergency OFF button, self-latching, function-illuminated
- rotary switch (1-4, 1-8, 1-12 or 1-16) for direct selection of the run direction
- illuminated GO button (Ready indicator for the M-Link system)
- robust metal housing, side plates and two stainless steel handles/safety grips
- 10 m connector cable with multi-pin plug-in connector
- operating voltage: 24 V AC

Options / Accessories

- RCD circuit breaker 40 or 63 A/30 mA for MPC 8ED8
- 19-pin EU-Socapex compatible plug-in connector
- MRC 8/12/16 cable-spitting adapter
- transport case

Subject to technical modifications and typographical errors.