

MPC 16/24/32TD8 II

MOVECAT

MOVECAT MPC 16/24/32TD8 II Motion Power Controller compliant with BGV D8 and igvw SQ P2 D8 Plus



The all-in-one touring racks of the Movecat TD8 series set new standards in terms of compact construction, operating ergonomics and safety for motor controllers in accordance with BGV D8 and igvw SQ P2 D8 Plus. They correspond to the current EN 60204-32, EN 13849-1 and VDE 0113 guidelines. The safety systems and power-switching components are supervised in a read-back safety chain

to achieve an alltime high in operating safety. In addition, the relevant operating states are systematically illuminated.

The racks unite the control components necessary for operation in a compact, shock-resistant road case. The integrated power station takes over the distribution and protection of the controller modules as well as the supervision of the power supply including any necessa-

ry correction of the rotating field.

Both Single mode (Lift/Lower single selection of the hoists) and alternatively Master mode (central Lift/Lower selection of all hoists with a single switch) are available. In addition, a DMB system (enabling/'dead-man' button) is integrated. Depending upon the rack, up to four external three-stage permission buttons can be connected. Especially with larger rig constructions, it is necessary to supervise these from different positions during the "run" to ensure that, even in the case of systems extending over large areas, runs are performed safely. Series II devices have been further enhanced by a selective bypass system, whereby in the event of a failure in a single module, in the power station or in the MRC, it remains possible to operate the modules and drives not affected.

The safety concept is complemented by the tried-and-tested Movecat M-Link system, which allows up to twelve TD8 racks (max. 384

drives) to be operated in a network.

The M-Link is system-compatible with the Movecat MPC 4ID8 and 4/8ED8 controllers. Up to eight devices can be 'linked' with a single TD8 controller. Even 'linked' mixed operation can be realized with up to eight devices.

Due to their intuitive operating philosophy and also to their handling and safety features, the racks of the TD8 series are recommended in particular for larger, interdependent rigging systems with more extensive safety requirements in professional rigging applications in accordance with BGV D8 and igvw SQ P2 D8 Plus.

FEATURES:

- controls up to 16 (MPC 16TD8), 24 (MPC 24TD8) or 32 (MPC 32TD8) direct-control hoists such as Movecat Eco, Ecolite, Compact, Plus, Plus-C or Pluslite chain hoists or else asynchronous three-phase drives (400 V/50Hz)
- self-testing of relevant functions prior to system enabling
- supervision and display of operating states such as operating voltage and phase, motor protection switch, run direction and main contactor on „stick“, M-Link system, DMB system
- illumination of input devices and important operating states
- simple, intuitive operation, Single (single hoist selection) and Master (all hoists UP or DOWN) modes selectable via key switch
- eight-channel, 19" individual controller plug-in modules with motor protection switches, their own safety supervision and phase and status displays
- power station with 30 mA ground fault circuit interrupters (RCD), automatic over- and under-voltage, phase sequence and symmetry supervision, as well as rotating field detection with automatic rotating field correction
- group-transcending error supervision in Link mode for up to 12 touring racks (max. 384 hoists in one T network)
- M-Link compatible with the MPC 4ID8 and 4ED8 controllers (max. 8 devices)
- DMB system, three-level permission buttons, up to four units with self-detection and active status display
- implementation according to BGV D8 and igvw SQ P2 D8 Plus
- selective bypass design for increased operating safety

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Technical equipment:

- professional, shockproof road case with six handles and four castors (two lockable)
- control panel with choice of function-illuminated rotary or rocker switches
- E-Stop button, function-illuminated
- separate backlit GO buttons for Single and Master modes (Enabled)
- differentiated error display (Error) for PDU, plug-in controller modules and control panel
- differentiated display of phases L1 to L3 for PSU as well as the plug-in controller modules
- display of the rotating field direction of the voltage feed. Any correction that may be necessary to achieve a clockwise (right-handed) rotating field is performed automatically
- individually adjustable motor protection switch with error display for each motor channel
- power station (PDU) with 30 mA RCD (Personnel and device protection), triple automatic circuit breakers (type C) and separately fused grounding receptacle on the front panel
- enabled display of the active DMB permission switches
- four CEE 4-pin direct out plugs (motor 1-4)
- HAN 16-E 16-pin multicore panel connectors for four drives each (optional 19-pin EU Socapex)
- XLR MX7 and XLR FX6 M-Link system incl. dummy connector
- XLR FX6 panel connector; MPC 16TD8 two, MPC 24/32TD8 four units each, DMB input
- 19" rack drawer 3U (except MPC 32TD8)

Technical data:

- Input: 63 A CEE with 1.5 m connector cable (MPC 16/24TD8)
- Input: 125 A CEE with 1.5 m connector cable (MPC 32TD8)
- Dimensions:
MPC 16TD8 600 x 970 x 800 mm
(Width x Height x Depth) closed incl. castors
MPC 24TD8 600 x 1,100 x 800 mm
(Width x Height x Depth) closed incl. castors
MPC 32TD8 600 x 1.250 x 800 mm
(Width x Height x Depth) closed incl. castors
- Conforms with EN 60204-32, EN 13849-1, VDE 0113, BGV D8 and igvw SQ P2 D8 Plus

Options / Accessories:

- DMB permission switch
- LP version (with 0.37 to 1.0 kW motor capacity upon request)
- HP version (with 1.5 to 3.0 kW motor capacity upon request)
- EU Socapex-compatible plug-in connector

Versions:

- **MPC 16TD8-RS3**, 16-channel with rocker switch (adjustable range 2.5 to 4.0 A motor current consumption, 0.75 to 1.5 kW motor capacity)
- **MPC 24TD8-RS3**, 24-channel with rocker switch (adjustable range 2.5 to 4.0 A motor current consumption, 0.75 to 1.5 kW motor capacity)
- **MPC 32TD8-RS3**, 32-channel with rocker switch (adjustable range 2.5 to 4.0 A motor current consumption, 0.75 to 1.5 kW motor capacity)
- **MPC 16TD8-TS3**, 16-channel with rotary switch (adjustable range 2.5 to 4.0 A motor current consumption, 0.75 to 1.5 kW motor capacity)
- **MPC 24TD8-TS3**, 24-channel with rotary switch (adjustable range 2.5 to 4.0 A motor current consumption, 0.75 to 1.5 kW motor capacity)
- **MPC 32TD8-TS3**, 32-channel with rotary switch (adjustable range 2.5 to 4.0 A motor current consumption, 0.75 to 1.5 kW motor capacity)



Subject to technical modifications and typographical errors.