



V-MOTION 15 and 30 Variable Motion Powerpacks

Compliant with BGV C1 and SIL 1 to SIL 3 / EN 61508 (depending upon configuration)

The V-MOTION Variable Motion Powerpacks are designed for operation with the Movecat VMK S-/L-hoists. This combination makes it possible to realize intelligent and safe, variable-speed hoisting systems of the highest technical quality that comply with BGV C1. The Powerpacks can be configured for the operation of a variety of VMK hoists: V-MOTION 15 for drives up to 1.5 kW, and V-MOTION 30 for drives up to 3.0 kW motor power.

A large, backlit liquid crystal display (LCD) shows all operating states, such as the run direction, speed and position, and the operating parameters of the connected drive. The main and safety processors supervise all functions. All the necessary circuit breakers, automatic safety switches for excess or insufficient load, work limit switches and emergency limit switches are integrated. In addition, all run commands, their execution and the resulting internal operating states are permanently tested and evaluated, with

their alignment in group mode with other V-MOTION Power Packs and the correctness of their way-, time- and load-group run examined.

The V-MOTION Variable Power Packs allow speeds ranging from 0 to 40 m/min — as a closed loop system with full torque also during runs continuing beyond the null point ('floating state' and reversal of direction without incursion of the brakes). This gives unlimited freedom to conduct way- and time-synchronous group and load runs as well as complex transformation operations — such as those used in studio, theatrical and event productions — whilst respecting at all times the very highest standards of safety.

The clear layout and self-explanatory operation of the control elements make the configuration and handling of the V-MOTION Powerpacks simple and intuitive. The user is guided by a logically arranged operating structure with output displays. Installation work and emergency runs are possible immediately without the connection of additional

devices, using On and Off switches as well as an analogue speed control.

In their standard configuration, the Powerpacks comply with BGV C1 but can optionally be upgraded with a second processor board for SIL 3 applications and therefore for the movement of scenery over persons. The V-MOTION Power Packs are ready for I-MOTION network operation. Up to 99 devices can be operated per I-MOTION network per central controller (e.g. I-MOTION MRC series). In network operation, data is exchanged in both directions and the user can follow and control all the operating parameters centrally.

V-MOTION Power Packs in combination with VMK S-/L-hoists are particularly suitable for complex professional BGV C1 /SIL 3 applications with the most demanding kinetic elements in the studio, theatre, events and entertainment and touring sectors.

FEATURES:

- standard configuration BGV C1 compliant
- optional with double CPU up to SIL 3 / EN 61508* upgradeable
- controls a VMK S- / L- chain hoist with variable speed
- closed-loop system permits runs beyond the zero point at full torque ('floating state' and reversal of direction without incursion of the brakes)
- self-testing of all relevant functions prior to system launch
- simple, intuitive operation
- selection between possible hoists with data stored in database
- monitoring and display of all operating conditions such as operating voltage, run direction; speed; work limit and emergency limit switches; temperature, break and load errors; self-monitoring safety relay and dynamic load evaluation*
- load-group transcending error monitoring and evaluation in I-Motion network operation
- selectable user hierarchy with password protection*
- 'target and time runs' on position
- 'way and time' synchronous group runs; permissible tolerance of individual hoists and groups programmable
- 'group synchronous' runs (simultaneous raising and lowering of pre-selected hoists) with multiple groups
- software work limit positions for lifting and lowering*
- simple position reference run for calibration*
- simple setup option for under- and overload definition*
- targeted emergency runs in conjunction with password and bypass switch
- memory function for the entire set-up as well as all operating parameters even in case of power failure
- log file display and evaluation via I-Motion network
- integration in I-Motion-Network-Bus-System
- selectable remote or local operation
- configuration via external PC with network card; 100 Mbit (Administrator Series)
- backlit liquid crystal display of all operating parameters
- emergency stop button, illuminates when activated
- four function keys for menu control
- function switch for central start-up (remote, local, bypass)
- On / Off switch plus speed control for manual installation / breakdown operation
- dual channel incremental encoder input with run direction recognition; high-resolution
- absolute value encoder input SSI high-resolution
- 3 additional digital inputs for ancillary functions
- I-Motion network input; network addresses software-programmable
- Temperature controlled „noiseless“ fancooling
- robust metal housing with four handles
- mounting possibility for three C-hooks or half-couplers and safety ropes for simple truss mounting
- 16 A CEE 40 V / 3-phase output for linked operation with other V-MOTION devices (up to 3 devices)
- Multipin PMC C8/24M output multi-pin connector (MPC 41C1 compatible)
- NDC C-14F input connector for the I-MOTION network
- Digital input connector XLR 4-pin female
- drive power: V-MOTION 15 up to 1.5 kW V-MOTION 30 up to 3 kW motor power asynchronous three-phase drive
- dimensions: 435 x 455 x 134 mm (W x D x H)
- weight: V-MOTION 15: 15,5 kg V-MOTION 30: 16,2 kg
- CE BGV C1 compliant (up to SIL 3 / EN 61508 optional depending upon configuration)

Options / accessories

- upgrade for SIL 3 / EN 61508 operation
- 19" rack-mounting kit
- V-MOTION MRC remote control
- I-Motion NDB 6/12 Network Distribution-Box
- C hook and safty-steel
- transportcase

(*optional)

Technical data

- Input 16 A CEE 400V / 3-phase