

## MOTION CONNECT 500

### MLFB-Ordering data

6FX5012-5DS01-1DF0



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

### Electrical data

|  |                  |
|--|------------------|
| No. of cores x cross-section mm <sup>2</sup> | 4x1.5 + 2x1.5C C |
| Test voltage, rms Power conductors           | 4.0 kV           |
| Test voltage, rms Signal conductors          | 2.0 kV           |
| Type with braking lead                       | Yes              |
| Rated voltage V0/V according to EN 50395     | 600 V/1000 V     |

### Mechanical data

|   |                                       |
|---|---------------------------------------|
| Type of connection cable engine side    | Conector full thread                  |
| Connector size                          | 1 / M23                               |
| Type of bolting                         | not relevant                          |
| Type of connection cable converter side | Connector SINAMICS S120 Booksize MoMo |
| Maximum cable outer diameter            | 10.8 mm                               |
| Length                                  | 35.0 m                                |
| Weight (without connector)              | 7.7 kg                                |

### Static deployment

|  |  |
|--|--|
| Smallest bending radius (fixed installation)       | 54.0 mm  |
| Tensile load for permanently installed cable, max. | 50 N/mm <sup>2</sup> (7252 lbf/in <sup>2</sup> ) |
| Torsional stress                                   | Absolute 30°/m                                   |

### Dynamic deployment

|  |  |
|--|--|
| Smallest bending radius(flexible installation in a cable carriers) | 195.0 mm   |
| Acceleration horizontal, max                                       | 2 m/s <sup>2</sup>                               |
| Maximum traversing velocity  | 30 m/min   |
| Travel path  | 5 m  |
| Number of bends, max.  | 100,000  |
| Tensile load for moving cable, max.                                | 20 N/mm <sup>2</sup> (2901 lbf/in <sup>2</sup> ) |



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## Technical data

### Ambient temperature

|   |   |
|---|---|
| Operation with permanently installed cable              | -20 ... 80 °C                           |
|   | Module-end power connector 0 ... 55°C   |
| Operation with moving cable                             | 0 ... 60 °C                             |
|   | Motor-end power connector 0 ... 55°C    |
| Storage   | -20 ... 80 °C                           |
|   | Module-end power connector -20 ... 70°C |
| Kind of connection cable                                | Basis cable                             |
| Material of the cable sheath                            | PVC DESINA color orange RAL 2003        |
| Type of insulation                                      | CFC/silicone-free                       |
| Standard for behavior in fire: flame resistance         | EN 60332-1-1 to 1-3                     |
| Oil resistance  | EN 60811-2-1 (mineral oil only)         |
| Verification of suitability as authorisation for USA    | UL758                                   |
| Verification of suitability as authorisation for Canada | CSA-C22.2-N.210.2-M90                   |