

MOTION CONNECT 500

MLFB-Ordering data

6FX5002-5DG01-1AF0



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Electrical data

| | |
|--|------------------|
| No. of cores x cross-section mm ² | 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 | Open end of lead |
| Maximum cable outer diameter | 10.8 mm |
| Length | 5.0 m |
| Weight (without connector) | 1.1 kg |

Static deployment

| | |
|--|--|
| Smallest bending radius (fixed installation) | 54.0 mm |
| Tensile load for permanently installed cable, max. | 50 N/mm ² (7252 lbf/in ²) |
| 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 ² |
| 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 ² (2901 lbf/in ²) |

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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 |