



Figure similar

MOTION CONNECT 500

MLFB-Ordering data 6FX5002-8QN21-1AA5

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

Electrical data

|                                          |                          |
|------------------------------------------|--------------------------|
| No. of cores x cross-section mm²         | 4x2,5 + 4x0,2 + 2x1,5C C |
| Test voltage, rms Power conductors       | 1.5 kV                   |
| Test voltage, rms Signal conductors      | 0.5 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 SPEED-CONNECT                                       |
| Connector size                          | 1 / M23                                                      |
| Type of bolting                         | not relevant                                                 |
| Type of connection cable converter side | Wire ends with ferrules (OCC signal connector pre-assembled) |
| Maximum cable outer diameter            | 13.7 mm                                                      |
| Length                                  | 0.5 m                                                        |
| Weight (without connector)              | 0.1 kg                                                       |

Static deployment

|                                                    |                         |
|----------------------------------------------------|-------------------------|
| Smallest bending radius (fixed installation)       | 33.2 mm                 |
| Tensile load for permanently installed cable, max. | 50 N/mm² (7252 lbf/in²) |
| Torsional stress                                   | Absolute 30°/m          |

Dynamic deployment

|                                                                    |                         |
|--------------------------------------------------------------------|-------------------------|
| Smallest bending radius(flexible installation in a cable carriers) | 133.0 mm                |
| Acceleration horizontal, max                                       | 2 m/s²                  |
| Maximum traversing velocity                                        | 30 m/min                |
| Travel path                                                        | 5 m                     |
| Number of bends, max.                                              | 100,000                 |
| Tensile load for moving cable, max.                                | 20 N/mm² (2901 lbf/in²) |



Figure similar

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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                             |
|                                            | Module-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            |