

## MOTION CONNECT 800PLUS

### MLFB-Ordering data

6FX8002-5DG31-1BA0



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> | 4x2.5 + 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                          | 1.5 / M40            |
| Type of bolting                         | not relevant         |
| Type of connection cable converter side | Open end of lead     |
| Maximum cable outer diameter            | 13.8 mm              |
| Length                                  | 10.0 m               |
| Weight (without connector)              | 3.00 kg              |

### Static deployment

|                                              |                                                  |
|----------------------------------------------|--------------------------------------------------|
| Smallest bending radius (fixed installation) | 41.4 mm                                          |
| Tensile stress, max. Fixed installation      | 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) | 105.0 mm                                         |
| Acceleration horizontal, max                                       | 50 m/s <sup>2</sup>                              |
| Maximum traversing velocity                                        | 300 m/min                                        |
| Travel path                                                        | 50 m                                             |
| Number of bends, max.                                              | 10,000,000                                       |
| 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              | -50 ... 80 °C                                                                   |
|                                                         | Module-end power connector 0 ... 55°C, Motor-end power connector -20 ... 80°C   |
| Operation with moving cable                             | -20 ... 60 °C                                                                   |
|                                                         | Module-end power connector 0 ... 55°C                                           |
| Storage                                                 | -20 ... 80 °C                                                                   |
|                                                         | Module-end power connector -20 ... 70°C, Motor-end power connector -20 ... 80°C |
| Kind of connection cable                                | Basis cable                                                                     |
| Material of the cable sheath                            | PUR DESINA color orange RAL 2003                                                |
| Type of insulation                                      | CFC/halogen/silicone-free                                                       |
| Standard for behavior in fire: flame resistance         | EN 60332-1-1 to 1-3                                                             |
| Oil resistance                                          | EN 60811-2-1                                                                    |
| Verification of suitability as authorisation for USA    | UL 758                                                                          |
| Verification of suitability as authorisation for Canada | CSA-C22.2-N.210.2-M90                                                           |