

## MOTION CONNECT 800PLUS

### MLFB-Ordering data

6FX8002-2CA31-1BA5



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

### Electrical data

|   |  |
|---|--|
| Design of the sensor  | Incremental encoder sin/cos 1 Vpp 2048 pulses/rev with C and D track |
| Test voltage, rms Signal conductors                             | 500 V  |
| Rated voltage U0/U in accordance with EN 50395 Power conductors | 30 V   |

### Mechanical data

|   |                      |
|---|----------------------|
| Type of connection cable engine side            | M23 full thread      |
| Type of connection cable converter side         | SUB-D                |
| Maximum cable outer diameter                    | 9.8 mm               |
| Smallest bending radius (fixed installation)    | 4 x Dmax             |
| Smallest bending radius (flexible installation) | 70 mm                |
| Number of bends, max.                           | 10,000,000           |
| Maximum traversing velocity                     | 300 m/min            |
| Acceleration horizontal, max                    | 50 m/s <sup>2</sup>  |
| Tensile stress, max. Fixed installation         | 50 N/mm <sup>2</sup> |
| Tensile stress, max. Flexible installation      | 20 N/mm <sup>2</sup> |
| Torsional stress                                | Absolute 30°/m       |
| Length  | 10.5 m               |



Figure similar

MLFB-Ordering data

6FX8002-2CA31-1BA5

## Technical data

### Ambient temperature

|  |   |
|--|---|
| Operation with permanently installed cable | -50 ... 80 °C   |
|  | Module-end power connector -40°C ... 80°C, Motor-end power connector -20 ... 80°C |
| Operation with moving cable                | -20 ... 60 °C   |
| Storage                                    | -20 ... 80 °C   |
|  | Module-end power connector -40°C ... 80°C, Motor-end power connector -20 ... 80°C |

|   |   |
|---|---|
| Kind of connection cable                                | Basis cable   |
| Material of the cable sheath                            | PUR, HD22.10 S2 (VDE 0282, part 10) DESINA-color green RAL 6018 |
| Type of insulation                                      | Without CFC and silicone IEC 60754-1/DIN VDE 0472-815           |
| 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    | UL758, cURus with AWM-Style                                     |
| Verification of suitability as authorisation for Canada | CSA-C22.2-N.210.2-M90   |